

**PROJECT SPECIAL PROVISION**

(10-18-95)

Z-1

**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.

<b><u>PERMIT</u></b>	<b><u>AUTHORITY GRANTING THE PERMIT</u></b>
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.**

**U.S. ARMY CORPS OF ENGINEERS  
WILMINGTON DISTRICT**

Action ID: SAW 2007-03418

TIP No: B-4063

State Project No: 8.1522301

County: Chatham

**GENERAL PERMIT (REGIONAL AND NATIONWIDE) VERIFICATION**

Applicant: North Carolina Department of Transportation

Address: Gregory J. Thorpe, Ph.D.  
Environmental Management Director  
Project Development and Environmental Analysis  
1598 Mail Service Center  
Raleigh, North Carolina 27699-1598

Telephone Number: (910) 733-3141

Size and Location of project (waterway, road name/number, town, etc.): Bridge No. 20 on NC 902 over Sandy Branch in Chatham County, North Carolina.

Description of Activity: To remove the existing 70-foot two-span bridge and replace with a 90-foot single-span bridge on new alignment to the east of the existing structure. A temporary causeway will be constructed to aid in the removal of the center bent on the existing structure impacting 34 linear feet of stream channel. To remove 55 linear feet of existing 36-inch RCP and replace with 100 linear feet of 72-inch RCP culvert on a skew with a rip-rap apron at the down stream end of the unnamed tributary resulting in a total of 100 linear feet of permanent and 25 linear feet of temporary stream impacts. Two rip-rap outfall structures will be constructed at the stream bank for slope ditch bank protection resulting in 12 linear feet of stream impact. Traffic will be maintained on existing bridge until the new bridge is constructed.

Applicable Law:  Section 404 (Clean Water Act, 33 U.S.C. 1344)  
 Section 10 (River and Harbor Act of 1899)

Authorization:  Nationwide Permit Number  
 31 Regional General Permit Number

Your work is authorized by this Regional General (RGP) or Nationwide (NWP) Permit provided it is accomplished in strict accordance with the attached conditions and your submitted plans. If your activity is subject to Section 404 (if Section 404 block above is checked), before beginning work you must also receive a Section 401 water quality certification from the N.C. Division of Environmental Management, telephone (919) 733-1786

Please read and carefully comply with the attached conditions of the RGP or NWP. Any violation of the conditions of the RGP or NWP referenced above may subject the permittee to a stop work order, a restoration order, and/or appropriate legal action.

This Department of the Army RGP or NWP verification does not relieve the permittee of the responsibility to obtain any other required Federal, State, or local approvals/permits. The permittee may need to contact appropriate State and local agencies before beginning work.

This verification supersedes the 26 November 2007 verification and will remain valid until the expiration date identified below unless the general permit authorization is modified, reissued or revoked. If, prior to the expiration date identified below, the general permit authorization is reissued and/or modified, this verification will remain valid until the expiration date identified below, provided it complies with all modifications. If the general permit authorization expires or is suspended, revoked, or is modified, such that the activity would no longer comply with the terms and conditions of the general permit, activities which have commenced (i.e., are under construction) or are under contract to commence in reliance upon the general permit, will remain authorized provided the activity is completed

within twelve months of the date of the general permit's expiration, modification or revocation, unless discretionary authority has been exercised on a case-by-case basis to modify, suspend or revoke the authorization.

Action ID: SAW 2007-03418

TIP No: B-4063

State Project No: 8.1522301

County: Chatham

**GENERAL PERMIT (REGIONAL AND NATIONWIDE) VERIFICATION**

If there are any questions regarding this authorization or any of the conditions of the RGP or NWP, please contact the Corps Regulatory Official specified below.

Date 26 February 2008Expiration Date of Verification 31 August 2008Corps Regulatory Official Richard K. Spencer Telephone No. (910) 251-4172

The Wilmington District is committed to providing the highest level of support to the public. To help us ensure we continue to do so, please complete the attached customer Satisfaction Survey or visit <http://regulatory.usacesurvey.com/> to complete the survey online.

CF: Sara Easterly, NCDOT, PDEA  
Art King, NCDOT Div 8  
Ken Averitte, NCDWQ

**GENERAL PERMIT SPECIAL CONDITIONS**

1. Bridge demolition and removal will be accomplished in accordance with "Best Management Practices For Construction and Maintenance Activities, Section 4.6" dated August 2003 and a copy will be provided to the contractor prior to the pre-construction conference.
2. No bridge demolition debris will be intentionally allowed to enter the waterway or wetlands.
3. Sediment and erosion control measures shall be in place prior to any demolition or land clearing activities.
4. Staging areas or the stockpiling of construction material shall not be located in any wetlands.
5. All temporary fill is to be placed on filter fabric and removed from the waterway in its entirety upon completion of the construction.
6. All construction spoil material shall be disposed of on an upland area and shall not be placed in any waterway or wetland.

Action ID Number: SAW 2007-03418  
County: Chatham

Permittee: North Carolina Department of Transportation

Date Verification Issued: 26 February 2008

Project Manager: Richard K. Spencer

\*Upon completion of the activity authorized by this permit and any mitigation required by the permit, sign this certification and return it to the following address:

US ARMY CORPS OF ENGINEERS  
WILMINGTON DISTRICT  
WILMINGTON REGULATORY FIELD OFFICE  
POST OFFICE BOX 1890  
WILMINGTON, NORTH CAROLINA 28402-1890

Please note that your permitted activity is subject to a compliance inspection by a U. S. Army Corps of Engineers representative. If you fail to comply with this permit you are subject to permit suspension, modification, or revocation.

I hereby certify that the work authorized by the above referenced permit has been completed in accordance with the terms and condition of the said permit, and required mitigation was completed in accordance with the permit conditions.

\_\_\_\_\_  
Signature of Permittee

\_\_\_\_\_  
Date

DEPARTMENT OF THE ARMY  
Wilmington District, Corps of Engineers  
Post Office Box 1890  
Wilmington, North Carolina 28402-1890

**Regional General Permit No. 198200031**  
**Name of Permittee: General Public**  
**Effective Date: September 1, 2003**  
**Expiration Date: August 31, 2008**

**DEPARTMENT OF THE ARMY  
REGIONAL GENERAL PERMIT**

A regional general permit (RGP) to perform work in or affecting navigable waters of the United States and waters of the United States, upon recommendation of the Chief of Engineers, pursuant to Section 10 of the Rivers and Harbors Act of March 3, 1899 (33 U.S.C. 403), and Section 404 of the Clean Water Act (33 U.S.C. 1344), is hereby modified and re-issued by authority of the Secretary of the Army by the

District Engineer  
U.S. Army Engineer District, Wilmington  
Corps of Engineers  
Post Office Box 1890  
Wilmington, North Carolina 28402-1890

**TO AUTHORIZE THE DISCHARGE OF DREDGED OR FILL MATERIAL IN WATERS OF THE UNITED STATES, INCLUDING WETLANDS, ASSOCIATED WITH THE CONSTRUCTION, MAINTENANCE AND REPAIR OF BRIDGES, INCLUDING COFFERDAMS, ABUTMENTS, FOUNDATION SEALS, PIERS, APPROACH FILLS, DETOUR FILLS, BOX CULVERT INSTALLATION AND TEMPORARY CONSTRUCTION AND ACCESS FILLS, IN WATERS OF THE UNITED STATES AS PART OF WORK CONDUCTED BY THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION (NCDOT) OR OTHER STATE, FEDERAL OR LOCAL GOVERNMENTAL ENTITY, IN THE STATE OF NORTH CAROLINA.**

1. Special Conditions.

a. Written confirmation that the proposed work complies with this RGP must be received from the Wilmington District Engineer prior to the commencement of any work. To enable this determination to be made, the permittee must furnish the Wilmington District Engineer a pre-construction notification with the following information:

- (1) A map indicating the location of the work.
- (2) Plans of the proposed work showing all pertinent structures, elevations, dimensions and quantities of materials and locations of all structures and/or fill in wetlands or waterward of the normal/high water elevation contours.
- (3) A brief discussion of the affected aquatic resources, including streams and wetlands. The discussion shall include the identification and types of vegetation present.
- (4) Approximate commencement and completion dates.
- (5) A description of methods to be employed to avoid and/or minimize permanent and temporary impacts to aquatic resources caused by the proposed work.
- (6) Plans, including timetables and techniques, for construction, stabilization and removal of all unavoidable temporary fills.
- (7) Names and addresses of adjoining property owners.

b. In the case of fills of one acre or less, including permanent approach fills, detour fills and fills associated with culvert installation, the Corps of Engineers' Project Manager will determine, after appropriate onsite visits and review of plans, if the impacts on aquatic resources, including streams and wetlands, are likely to be such as to require review by Federal and State agencies. If it is determined that impacts are minimal or can be made minimal by changes agreed to by the applicant, a letter of authorization to proceed will be provided. If it is determined that review by Federal and State agencies is necessary to fully evaluate impacts, copies of all plans and materials will be forwarded to the U.S. Fish and Wildlife Service (USFWS), the National Marine Fisheries Service (NMFS), the U.S. Environmental Protection Agency (EPA) and the North Carolina Department of Environment and Natural Resources (NCDENR). These agencies will furnish comments to the Wilmington District Engineer within thirty (30) days.

c. In cases of fills greater than one acre, copies of all plans and materials will be forwarded to the USFWS, the NMFS, the EPA and the NCDENR. These agencies will furnish comments to the Wilmington District Engineer in thirty (30) days. In cases of land disturbing activities comprising more than one acre, a Sedimentation/Erosion Control Plan will be filed with the North Carolina Division of Land Resources, Land Quality Section, thirty (30) days prior to commencing work.

d. Where work is proposed within the twenty (20) coastal counties, as defined by the North Carolina Division of Coastal Management, the applicant shall forward a copy of the pre-construction notification to:



National Marine Fisheries Service  
 101 Pivers Island Road  
 Beaufort, North Carolina 28516

The counties in which this condition applies are:

Beaufort	Hertford	Bertie	Hyde	Brunswick
New Hanover	Camden	Onslow	Carteret	Pamlico
Chowan	Pasquotank	Craven	Pender	Currituck
Perquimans	Dare	Tyrrell	Gates	Washington

e. In the event that any Federal agency maintains an objection or any required State authorization is outstanding, no notice to proceed will be given until objections are resolved and State authorizations are issued.

f. No work will proceed until after the applicant has received written notice to proceed from the Wilmington District Engineer. This notice may include additional conditions and/or restrictions. Copies of the notice to proceed will be furnished to the USFWS, the NMFS, the EPA and the NCDENR with a brief description of the work, including the area of wetlands affected and the quantity of fill material.

g. Upon completion of any work authorized by this RGP, all temporary fills will be completely removed and the area reestablished as a wetland by restoring natural hydrology and native vegetation. Stream contours and riparian vegetation will be reestablished upon the removal of temporary culverts. In such instances, a restoration plan will be submitted to the Wilmington District Engineer for approval. Information in the restoration plan will be in accordance with special condition i. below.

h. Appropriate soil and erosion control measures must be established and maintained during construction. All fills, temporary and permanent, must be adequately stabilized at the earliest practicable date to prevent erosion of fill material into adjacent waters or wetlands.

i. In cases where new alignment approaches are to be constructed and the existing wetland approach fill is to be abandoned and no longer to be maintained as a roadway, the abandoned fill shall be removed and the area reestablished as a wetland. In such instances, a restoration plan will be submitted to the Wilmington District Engineer for approval. Information in the restoration plan will be in accordance with special condition i. below.

j. Discharges of dredged or fill material into waters of the United States, including wetlands, must be minimized or avoided to the maximum extent practicable. In reviewing an activity, the Wilmington District Engineer will first determine whether the activity will result in more than minimal adverse environmental affects. For activities that are determined to have more than minimal impacts, compensatory mitigation will be required. To expedite the process, the applicant will provide a mitigation plan with the request for authorization. Site specific mitigation proposals will include, but are not necessarily limited to, a description of work, a

schedule of work and a monitoring plan, and they will be in accordance with currently approved Wilmington District and/or Corps-wide mitigation guidelines. The applicant may propose other forms of mitigation, such as mitigation bank credits or in-lieu fee mitigation with the notification, which in some situations and at the discretion of the Wilmington District, may be considered acceptable mitigation.

k. Activities in any North Carolina designated "Mountain Trout Waters" must comply with all pH, temperature and turbidity criteria established for such waters by the North Carolina Wildlife Resources Commission (NCWRC) and/or the North Carolina Division of Water Quality (NCDWQ). Work that may result in the sedimentation of trout waters will generally be prohibited from October 15 to April 15, of any year, to avoid impacts on trout spawning.

l. Before discharging dredged or fill material into waters of the United States, including wetlands, in the twenty-five (25) mountain counties of North Carolina that contain trout waters, the applicant will obtain and provide a letter of comments and recommendations from the North NCWRC on the proposed activities. A discussion of alternatives to working in the mountain trout waters and why alternatives were not selected, and a plan to provide compensatory mitigation for all unavoidable adverse impacts to the mountain trout waters shall also be submitted with the letter from NCWRC. To facilitate coordination with the NCWRC, the proponent may provide a copy of the notification to the NCWRC concurrent with the notification to the District Engineer. The NCWRC will respond both to the proponent and directly to the Corps of Engineers.

The applicant should contact:

**North Carolina Wildlife Resources Commission  
Habitat Conservation Program Manager  
1721 Mail Service Center  
Raleigh, North Carolina 27699-1721  
Telephone (919) 733-7638**

The counties in which this condition applies are:

Alleghany	Ashc	Avery	Buncombe	Burke
Caldwell	Cherokee	Clay	Graham	Haywood
Henderson	Jackson	Macon	Madison	McDowell
Mitchell	Polk	Rutherford	Stokes	Surry Swain
Transylvania	Watauga	Wilkes	Yancey	

m. This permit does not authorize the use of culverts in areas designated as anadromous fish spawning areas by the North Carolina Division of Marine Fisheries (NCDMF) or the North Carolina Wildlife Resources Commission (NCWRC).

n. Discharges into Waters of the United States designated by either the North Carolina Division of Marine Fisheries (NCDMF) or the NCWRC as anadromous fish spawning area are prohibited during the period between February 15 and June 30, without prior written approval

from NCDMF or NCWRC and the Corps. Discharges into waters of the United States designated by NCDMF as primary nursery areas and discharges into waters of the United States designated by NCWRC as inland nursery areas shall be coordinated with NCDMF and NCWRC prior to being authorized by this RGP. Coordination with NCDMF and NCWRC may result in a required construction moratorium during periods of significant biological productivity or critical life stages.

The Applicant should contact:

**NC Division of Marine Fisheries**  
3441 Arendell Street  
Morehead City, NC 28557  
Telephone 252-726-7021  
or 800-682-2632

**North Carolina Wildlife Resources Commission**  
Habitat Conservation Program Manager  
1721 Mail Service Center  
Raleigh, NC 27699-1721  
Telephone (919) 733-7638

o. No activity may result in substantial permanent disruption of the movement of those species of aquatic life indigenous to the waterbody, including those species that normally migrate through the area.

p. This permit generally allows the permanent installation of culverts to 100 feet in length. For culverts longer than 100 feet, the proposed application will be closely evaluated to determine if unacceptable impacts on movement of aquatic organisms would result. In such cases, approval may not be provided.

q. If the project is located within the twenty (20) counties of North Carolina designated as coastal counties by the Coastal Area Management Act (CAMA), then all pipe and culvert inverts will be buried at least one foot below normal bed elevation when they are placed within the Public Trust Area of Environmental Concern (AEC) and/or the Estuarine Waters AEC as designated by CAMA, and/or all streams appearing as blue lines on United States Geological Survey (USGS) quad sheets. If the project is not located within the twenty (20) counties of North Carolina designated as coastal counties by CAMA, then culvert inverts will be buried at least one foot below the bed of the stream for culverts greater than 48 inches in diameter. 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. Bottomless arch culverts will satisfy this condition. A waiver from the depth specifications in this condition may be requested in writing. The waiver will only be issued if it can be demonstrated that the impacts of complying with this condition would result in more adverse impacts to the aquatic environment.

r. All activities authorized by this RGP shall, to the extent practicable, be conducted "in the dry", with barriers installed between work areas and aquatic habitat to protect that habitat from cement or other pollutants. Where concrete is utilized, measures will be taken to prevent live or fresh concrete, including bags of uncured concrete, from coming into contact with waters of the state until the concrete has hardened. Water in the work area will be pumped to holding and settling ponds as practicable, and water will not be allowed to re-enter the water column until decanted.

s. If the project authorized by this RGP is proposed by a Federal or State agency, and is located within the twenty (20) counties of North Carolina designated as coastal counties by the CAMA, then prior to project initiation the proponent must obtain a determination of consistency with the state's coastal management program from the N.C. Division of Coastal Management (DCM). A copy of the state's consistency determination must be provided to the appropriate Wilmington District Regulatory Office at the following address:

Wilmington Regulatory Field Office  
P.O. Box 1890  
Wilmington, NC 28402

Washington Regulatory Field Office  
P.O. Box 1000  
Washington, NC 27889

The state's consistency determination will be conveyed in the form of a CAMA permit if the project is located within a designated CAMA Area of Environmental Concern (AEC), and will be conveyed in the form of a Consistency Determination letter from DCM if the project is not located within a designated CAMA AEC.

t. No work shall be authorized by the RGP within the twenty coastal counties, as defined by the North Carolina Division of Coastal Management, without prior consultation with NOAA Fisheries. For each activity reviewed by the Corps of Engineers where it is determined that the activity may affect Essential Fish Habitat (EFH) for Federally managed species, an EFH Assessment shall be prepared by the applicant and forwarded to the Corps of Engineers and NOAA Fisheries for review and comment prior to authorization of work.

u. All work will comply with Water Quality Certification No. 3404, issued by the NCDWQ on 28 March 2003.

v. The activity must be designed to maintain preconstruction downstream flow conditions (e.g., location, capacity, and flow rates). Furthermore, the activity must not permanently restrict or impede the passage of normal or expected high flows and the structure or discharge of dredged or fill material must withstand expected high flows

## 2. General Conditions.

a. All activities authorized by this RGP that involve the discharge of dredged or fill material in waters of the United States will be consistent with applicable water quality standards, effluent limitations and standards of performance, prohibitions, pre-treatment standards and management practices established pursuant to the Clean Water Act (33 U.S.C. 1344) and applicable State and local law. If the proposed activity involves the discharge of dredged or fill material in waters of the United States, prior to the commencement of any work, the applicant will satisfy the NCDWQ regarding the need for a Water Quality Certification pursuant to Section 401 of the Clean Water Act.

b. There will be no unreasonable interference with navigation or the right of the public to riparian access by the existence or use of activities authorized by this RGP.

c. A permittee, upon receipt of written notice from the Wilmington District Engineer of failure to comply with the terms or conditions of this RGP, will, within 60 days, without expense to the U.S. Government, and in such manner as the Wilmington District Engineer may direct, affect compliance with the terms and conditions or return the worksite to a pre-work condition.

d. The permittee must make every reasonable effort to perform the work authorized herein in a manner so as to minimize any adverse impact on fish, wildlife and natural environmental values.

e. The permittee must perform the work authorized herein in a manner so as to minimize any degradation of water quality. The activity will be conducted in such a manner as to prevent a significant increase in turbidity outside the area of construction or construction-related discharge. Increases such that the turbidity in the water body is 50 NTU's or less in all rivers not designated as trout waters by the North Carolina Division of Environmental Management (NCDDEM), 25 NTU's or less in all saltwater classes and in all lakes and reservoirs, and 10 NTU's or less in trout waters, are not considered significant.

f. The permittee will permit the Wilmington District Engineer or his representative to make periodic inspections at any time deemed necessary in order to assure that the activity is being performed or maintained in strict accordance with the Special and General Conditions of this permit.

g. This RGP does not convey any rights, either in real estate or material, or any exclusive privileges; and it does not authorize any injury to property or invasion of rights or any infringement of Federal, State or local laws or regulations, nor does it obviate the requirement to obtain State or local assent required by law for the activity authorized herein. These may include, but are not necessarily limited to, a Dredge and/or Fill Permit (N.C.G.S. 113-229), a CAMA Permit (N.C.G.S. 113A-118), an Easement to Fill (N.C.G.S. 146-12) and a Water Quality Certification pursuant to Section 401 of the Clean Water Act.

h. Authorization provided by this RGP may be modified, suspended or revoked in whole or in part if the Wilmington District Engineer, acting on behalf of the Secretary of the Army, determines that such action would be in the best public interest. Unless subject to modification, suspension or revocation, the term of this RGP shall be five years. Any modification, suspension or revocation of this authorization will not be the basis for any claim for damages against the U.S. Government.

i. This RGP does not authorize the interference with any existing or proposed Federal project and the permittee will not be entitled to compensation for damages or injury to the structures or work authorized herein which may be caused by or results from existing or future operations undertaken by the United States in the public interest.

j. This RGP will not be applicable to proposed construction when the Wilmington District Engineer determines that the proposed activity would significantly affect the quality of the human environment and determines that an Environmental Impact Statement (EIS) must be prepared.

k. This RGP will not be applicable to proposed construction when the Wilmington District Engineer determines, after any necessary investigations, that the proposed activity would adversely affect areas that possess historic, cultural, scenic, conservation or recreational values. Application of this exemption applies to:

(1) Rivers named in Section 3 of the Wild and Scenic Rivers Act (15 U.S.C. 1273), those proposed for inclusion as provided by Sections 4 and 5 of the Act and wild, scenic and recreational rivers established by State and local entities.

(2) Historic, cultural or archeological sites listed in or eligible for inclusion in the National Register of Historic Places as defined in the National Historic Preservation Act of 1966 as amended, the Abandoned Shipwreck Act of 1987 and the Native American Graves Protection and Repatriation Act.

(3) Sites included in or determined eligible for listing in the National Registry of Natural Landmarks.

(4) Endangered or threatened species or critical habitat of such species as determined by the Secretaries of Interior or Commerce and concerned in accordance with the Endangered Species Act (16 U.S.C. 1531).

(5) NOAA designated marine sanctuaries, National Estuarine Research Reserves, and coral reefs.

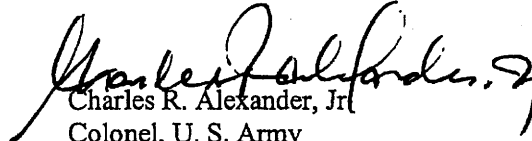
l. Permittees are advised that activities in or near a floodway may be subject to the National Flood Insurance Program, which prohibits any activities, including fill within a floodway that results in any increase in base flood elevations.

m. At his discretion, the Wilmington District Engineer may determine that this RGP will not be applicable to a specific construction proposal. In such case, the procedure for processing an individual permit in accordance with 33 CFR 325 will be available.

n. The permittee or the permittee's successors will maintain the authorized work in good condition and in conformance with the terms and conditions of the RGP.

o. The discharge of dredged or fill material shall consist of suitable material free from toxic pollutants in toxic amounts.

BY AUTHORITY OF THE SECRETARY OF THE ARMY:

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



Michael F. Easley, Governor

William G. Ross Jr., Secretary  
 North Carolina Department of Environment and Natural Resources  
 Coleen H. Sullins, Director  
 Division of Water Quality

February 21, 2008  
 Chatham County  
 DWQ Project No. 071687v.2  
 NC Hwy. 902  
 State Project No. 8.1522301  
 TIP No. B-4063

**AMENDED APPROVAL of 401 WATER QUALITY CERTIFICATION, with ADDITIONAL CONDITIONS**

Dr. Gregory J. Thorpe, Ph.D  
 NC Department of Transportation  
 Project Development and Environmental Analysis  
 1598 Mail Service Center  
 Raleigh, NC 27699-1598

Dear Dr. Thorpe:

You have our approval, in accordance with the conditions listed below, for the following stream impacts for the purpose of implementing roadway improvements to NC Hwy. 902 in Chatham County:

**Stream Impacts in the Cape Fear River Basin**

Site Crossing #	Permanent Fill in Intermittent Stream (linear ft)	Temporary Fill in Intermittent Stream (linear ft)	Permanent Fill in Perennial Stream (linear ft)	Temporary Fill in Perennial Stream (linear ft)	Total Stream Impact (linear ft)	Stream Impacts Requiring Mitigation (linear ft)
Site 1	100 LF replace 55' x 36" RCP w/100' x 72" RCP on skew,(backfill 53' of old channel, construct headwall and extend new pipe and riprap 47' downstream to improve path of stream flow)	25 LF				
Site 2			12 LF (2) six ft. rip-rap aprons for stabilization at ditch outlets on streambank	34 LF		
<b>Total</b>	<b>100 LF</b>	<b>25 LF</b>	<b>12 LF</b>	<b>34 LF</b>	<b>171 LF</b>	

**Total Stream Impact for Project: 171 linear feet.**

One  
North Carolina  
*Naturally*

North Carolina Division of Water Quality 225 Green Street – Suite 714 Fayetteville, NC 28301-5043 Phone (910) 433-3300 Customer Service  
 Internet: ncwaterquality.org FAX (910) 486-0707 1-877-623-6748

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Dr. Gregory J. Thorpe, Ph.D  
February 21, 2008  
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The project shall be constructed in accordance with your request submitted December 17, 2007 by Ms. Elizabeth Lusk, supplemental information received from Mr. Dan Duffield, P.E. on January 29, 2008, and modified stream impact information provided by Ms. Sara Easterly on February 19, 2008. After reviewing this latest information and your submittal, we have concluded that these impacts are still covered by General Water Quality Certification Number 3704. This certification corresponds to General Permit 198200031 as issued by the Corps of Engineers. In addition, you should acquire any other federal, state or local permits before you proceed with your project including (but not limited to) Sediment and Erosion Control, Non-Discharge and Water Supply Watershed regulations.

This approval is valid solely for the purpose and design described in your application (unless modified below). Should your project change, you must 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 total wetland fills for this project (now or in the future) exceed one acre, or if total impacts to streams (now or in the future) exceed 150 linear feet, compensatory mitigation may be required as described in 15A NCAC 2H .0506 (h) (6) and (7). For this approval to remain valid, you must adhere to the conditions listed in the attached certification as well as the following:

**Additional Conditions:**

1. Placement of culverts and other structures in waters, streams, and wetlands shall be placed below the elevation of the streambed by one foot for all culverts with a diameter greater than 48 inches, and 20 percent of the culvert diameter for culverts having a diameter less than 48 inches, to allow low flow passage of water and aquatic life. 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 is being maintained if requested in writing by DWQ. If this condition is unable to be met due to bedrock or other limiting features encountered during construction, please contact the NC DWQ for guidance on how to proceed and to determine whether or not a permit modification will be required.
2. If concrete is used during construction, a dry work area should be maintained to prevent direct contact between curing concrete and stream water. Water that inadvertently contacts uncured concrete should not be discharged to surface waters due to the potential for elevated pH and possible aquatic life and fish kills.
3. 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.
4. The dimension, pattern and profile of the stream above and below the crossings should not be modified, with the exception of the stream segment as authorized. Flood plains and streams should be restored to natural geomorphic conditions.
5. The use of rip-rap above the Normal High Water Mark shall be minimized. Any rip-rap placed for stream stabilization shall be placed in stream channels in such a manner that it does not impede aquatic life passage.
6. All work in or adjacent to stream waters shall be conducted in a dry work area. Approved BMP measures from the most current version of NCDOT Construction and Maintenance Activities manual such as sandbags, rock berms, cofferdams and other diversion structures shall be used to prevent excavation in flowing water.
7. Heavy equipment shall be operated from the banks rather than in the stream channel in order to minimize sedimentation and reduce the introduction of other pollutants into the stream.
8. 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.

Dr. Gregory J. Thorpe, Ph.D  
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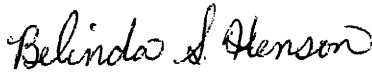
9. No rock, sand or other materials shall be dredged from the stream channel except where authorized by this certification.
10. Discharging hydroseed mixtures and washing out hydroseeders and other equipment in or adjacent to surface waters is prohibited.
11. The permittee and its authorized agents shall 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 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.
12. All fill slopes located in jurisdictional wetlands shall be placed at slopes no flatter than 3:1, unless otherwise authorized by this certification.
13. 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.
14. 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.
15. Upon completion of the project, the NCDOT Division Engineer shall complete and return the enclosed "Certification of Completion Form" to notify DWQ when all work included in the 401 Certification has been completed.
16. Native riparian vegetation must be reestablished within the construction limits of the project by the end of the growing season following completion of construction.
17. There shall be no excavation from, or waste disposal into, jurisdictional wetlands or waters associated with this permit without appropriate modification. Should waste or borrow sites be located in wetlands or streams, compensatory mitigation will be required since that is a direct impact from road construction activities.
18. Erosion and sediment control practices must be in full compliance with all specifications governing the proper design, installation and operation and maintenance of such Best Management Practices in order to protect surface waters standards:
  - a. The erosion and sediment control measures for the project must be designed, installed, operated, and maintained in accordance with the most recent version of the *North Carolina Sediment and Erosion Control Planning and Design Manual*.
  - b. The design, installation, operation, and maintenance of the sediment and erosion control measures must be such that they equal, or exceed, the requirements specified in the most recent version of the *North Carolina Sediment and Erosion Control Manual*. The devices shall be maintained on all construction sites, borrow sites, and waste pile (spoil) projects, including contractor-owned or leased borrow pits associated with the project.

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 Page 4

- 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. The reclamation measures and implementation must comply with the reclamation in accordance with the requirements of the Sedimentation Pollution Control Act.
19. Sediment and erosion control measures shall not be placed in wetlands or waters unless otherwise approved by this Certification. If placement of sediment and erosion control devices in wetlands and waters is unavoidable, they shall be removed and the natural grade restored upon completion of the project.
20. For projects impacting waters classified by the NC Environmental Management Commission as Trout (Tr), High Quality Waters (HQW), or Water Supply I or II (WSI, WSII) stormwater shall be directed to vegetated buffer areas, grass-lined ditches or other means appropriate to the site for the purpose of pre-treating storm water runoff prior to discharging directly into streams. Mowing of existing vegetated buffers is strongly discouraged.

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. This certification and its conditions are final and binding unless you ask for a hearing. This letter completes the review of the Division of Water Quality under Section 401 of the Clean Water Act. If you have any questions, please contact Ken Averitte at (910) 433-3303.

Sincerely,




Coleen H. Sullins

Attachments (General Certification and Certificate of Completion form)

cc: US Army Corps of Engineers, Wilmington District Office  
 Ms. Sara Easterly, PDEA  
 Mr. Art King, Division 8 Environmental Officer  
 Mr. Timothy Johnson, Division Engineer, NCDOT Div. 8  
 Mr. Richard Spencer, US Army Corps of Engineers, Wilmington Field Office  
 Ms. Sonia Gregory, 401 Wetlands/DOT Unit  
 Central Files  
 FRO File Copy

DWQ Project No.: \_\_\_\_\_

County: \_\_\_\_\_

Applicant: \_\_\_\_\_

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

Date of Issuance of 401 Water Quality Certification: \_\_\_\_\_

\* 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 401 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 and Buffer Rules, 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 and Buffer Rules, 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 and Buffer Rules, the approved plans and specifications, and other supporting materials.

Signature \_\_\_\_\_ Registration No. \_\_\_\_\_

Date \_\_\_\_\_

## Water Quality Certification N<sup>o</sup>. 3704

**GENERAL CERTIFICATION FOR PROJECTS ELIGIBLE FOR U.S. ARMY CORPS OF ENGINEERS NATIONWIDE PERMIT NUMBER 14 (LINEAR TRANSPORTATION PROJECTS) AND REGIONAL GENERAL PERMIT 198200031 (WORK ASSOCIATED WITH BRIDGE CONSTRUCTION, MAINTENANCE OR REPAIR CONDUCTED BY NCDOT OR OTHER GOVERNMENT AGENCIES) AND RIPARIAN AREA PROTECTION RULES (BUFFER RULES)**

Water Quality Certification Number 3704 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 15A NCAC 2H, Section .0500 and 15A NCAC 2B .0200 for the discharge of fill material to waters and adjacent wetland areas or to wetland areas that are not a part of the surface tributary system to interstate waters or navigable waters of the United States (as described in 33 CFR 330 Appendix A (B) (14) of the Corps of Engineers regulations (Nationwide Permit No. 14 and Regional General Permit 198200031) and for the Riparian Area Protection Rules (Buffer Rules) in 15A NCAC 2B .0200.

The State of North Carolina certifies that the specified category of activity will not violate applicable portions of Sections 301, 302, 303, 306 and 307 of the Public Laws 92-500 and 95-217 if conducted in accordance with the conditions hereinafter set forth.

- \* Any proposed fill or modification of wetlands and/or waters, including streams, under this General Certification requires application to, and written approval from the Division of Water Quality (the "Division") except for the single family lot exemption described below.

Application and written approval is *not required* for construction of a driveway to a single family lot as long as the driveway involves *less than 25 feet* of temporary and/or permanent stream channel impacts, including any in-stream stabilization needed for the crossing. This activity must meet all of the Conditions of Certification listed below. **If any of these Conditions cannot be met, or if the activity is associated with or in response to a Notice of Violation from the Division of Water Quality or the NC Division of Land Resources, then written approval from the Division is required.**

- \* In accordance with North Carolina General Statute Section 143-215.3D(e), written approval for a 401 Water Quality General Certification must include the appropriate fee. If a project also requires a CAMA Permit, one payment to both agencies shall be submitted and will be the higher of the two fees.

Conditions of Certification:

1. No Impacts Beyond those Authorized in the Written Approval or Beyond the Threshold for Use of this Certification

No waste, spoil, solids, or fill of any kind shall occur in wetlands, waters, or riparian areas beyond the footprint of the impacts authorized in the written approval or beyond the thresholds for use of this Certification, including incidental impacts. All construction activities, including the design, installation, operation, and maintenance of sediment and erosion control Best Management Practices, shall be performed so that no violations of state water quality standards, statutes, or rules occur.

2. Standard Erosion and Sediment Control Practices

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:

## Water Quality Certification N<sup>o</sup>. 3704

- a. 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.
- b. 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*.
- c. Reclamation measures and implementation must comply with the reclamation in accordance with the requirements of the Sedimentation Pollution Control Act and the Mining Act of 1971.
- d. Sufficient materials required for stabilization and/or repair of erosion control measures and stormwater routing and treatment shall be on site at all times, except for publicly funded linear transportation projects when materials can be accessed offsite in a timely manner.
- e. If the project occurs in waters or watersheds classified as Primary Nursery Areas (PNA's), Trout (Tr), SA, WS-I, WS-II, High Quality (HQW), or Outstanding Resource (ORW) waters, then the sediment and erosion control requirements contained within *Design Standards in Sensitive Watersheds* (15A NCAC 04B .0124) supercede all other sediment and erosion control requirements.

### 3. No Sediment and Erosion Control Measures in Wetlands or Waters

Sediment and erosion control measures should not be placed in wetlands or waters outside of the permitted impact areas without prior approval by the Division. If placement of sediment and erosion control devices in wetlands and waters is unavoidable, design and placement of temporary erosion control measures shall not be conducted in a manner that may result in dis-equilibrium of wetlands or stream beds or banks, adjacent to or upstream and down stream of the above structures. All sediment and erosion control devices shall be removed and the natural grade restored within two (2) months of the date that the Division of Land Resources or locally delegated program has released the project.

### 4. Construction Stormwater Permit NCG010000

Upon the approval of an Erosion and Sedimentation Control Plan issued by the Division of Land Resources (DLR) or a DLR delegated local erosion and sedimentation control program, an NPDES General stormwater permit (NCG010000) administered by the Division is automatically issued to the project. This General Permit allows stormwater to be discharged during land disturbing construction activities as stipulated by conditions in the permit. If your project is covered by this permit [applicable to construction projects that disturb one (1) or more acres], full compliance with permit conditions including the sedimentation control plan, self-monitoring, record keeping and reporting requirements are required. A copy of this permit and monitoring report forms may be found at [http://h2o.enr.state.nc.us/su/Forms\\_Documents.htm](http://h2o.enr.state.nc.us/su/Forms_Documents.htm).

The North Carolina Department of Transportation (NCDOT) shall be required to be in full compliance with the conditions related to construction activities within the most recent version of their individual NPDES (NCS000250) stormwater permit.

## Water Quality Certification N<sup>o</sup>. 3704

### 5. Work in the Dry

All work in or adjacent to stream waters shall be conducted in a dry work area. Approved best management practices from the most current version of the NC Sediment and Erosion Control Manual, or the NC DOT Construction and Maintenance Activities Manual, such as sandbags, rock berms, cofferdams, and other diversion structures shall be used to minimize excavation in flowing water. Exceptions to this condition require submittal to, and approval by, the Division of Water Quality.

### 6. Construction Moratoriums and Coordination

If activities must occur during periods of high biological activity (i.e. sea turtle or bird nesting), then biological monitoring may be required at the request of other state or federal agencies and coordinated with these activities. This condition can be waived through written concurrence on a case-by-case basis upon reasonable justification.

All moratoriums on construction activities established by the NC Wildlife Resources Commission (WRC), US Fish and Wildlife Service (USFWS), NC Division of Marine Fisheries (DMF), or National Marine Fisheries Service (NMFS) to lessen impacts on trout, anadromous fish, larval/post-larval fishes and crustaceans, or other aquatic species of concern shall be implemented. This condition can be waived through written concurrence on a case-by-case basis upon reasonable justification.

Work within the twenty-five (25) designated trout counties or identified state or federal endangered or threatened species habitat shall be coordinated with the appropriate WRC, USFWS, NMFS, and/or DMF personnel.

### 7. Riparian Area Protection (Buffer) Rules

Activities located in the protected 50-foot wide riparian areas (whether jurisdictional wetlands or not), within the Neuse, Tar-Pamlico, Catawba, or Randleman (or any other basin with buffer rules), shall be limited to "uses" identified within and constructed in accordance with 15A NCAC 2B .0233, .0259, .0250 and .0243, and shall be located, designed, constructed, and maintained to have minimal disturbance to protect water quality to the maximum extent practicable through the use of best management practices. All buffer rule requirements, including diffuse flow requirements, must be met.

### 8. Water Supply Watershed Buffers

The 100-foot wide vegetative buffer (high-density development) or the 30-foot wide vegetative buffer (low density development) shall be maintained adjacent to all perennial waters except for allowances as provided in the Water Supply Watershed Protection Rules [15A NCAC 2B .0212 through .0215].

9. If concrete is used during the construction, then a dry work area should be maintained to prevent direct contact between curing concrete and stream water. Water that inadvertently contacts uncured concrete should not be discharged to surface waters due to the potential for elevated pH and possible aquatic life/fish kills.

### \* 10. Compensatory Mitigation

In accordance with 15A NCAC 2H .0506 (h), compensatory mitigation may be required for losses of 150 linear feet or more of streams and/or one (1) acre or more of wetlands. For linear, public transportation projects, impacts equal to or exceeding 150 linear feet per stream may require mitigation.

## Water Quality Certification N<sup>o</sup>. 3704

In watersheds classified as: ORW, HQW, Tr, WS-I, and WS-II, compensatory stream mitigation may be required at a 1:1 ratio for not only perennial but also intermittent stream impacts equal to or exceeding 150 feet, unless the project is a linear, publicly-funded transportation project, which has a 150-foot per-stream impact allowance. Buffer mitigation may be required for any project with Buffer Rules in effect at the time of application for buffer impacts resulting from activities classified as "Allowable with Mitigation" within the Buffer Rules or require a variance under the Buffer Rules.

A determination of buffer, wetland and stream mitigation requirements shall be made by the Division for any application to use this Certification. Design and monitoring protocols shall follow the US Army Corps of Engineers Wilmington District *Stream Mitigation Guidelines* (April 2003), or its subsequent updates. Compensatory mitigation plans shall be submitted for written Division approval as required in those protocols. Alternatively, the Division will accept payment into an in-lieu fee program or credit purchase from a mitigation bank.

\* Finally, the mitigation plan must be implemented and/or constructed before any permanent building or structure on site is occupied. In the case of public road projects, the mitigation plan must be implemented before the road is opened to the public whenever practical or at the earliest reasonable time during the construction of the project. Proof of payment to an in-lieu fee program or mitigation bank must be provided to the Division to satisfy this requirement.

11. For all activities requiring re-alignment of streams, a stream relocation plan must be included for written Division approval. Relocated stream designs should include the same dimensions, patterns and profiles as the existing channel (or a stable reference reach if the existing channel is unstable), to the maximum extent practical. The new channel should be constructed in the dry and water shall not be turned into the new channel until the banks are stabilized. Vegetation used for permanent 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 appropriate erosion control matting materials and seedling establishment is allowable. Rip-rap, A-Jacks, concrete, gabions or other hard structures may be allowed if it is necessary to maintain the physical integrity of the stream, however, the applicant must provide written justification and any calculations used to determine the extent of rip-rap coverage. Please note that if the stream relocation is conducted as a stream restoration as defined in the US Army Corps of Engineers Wilmington District, April 2003 *Stream Mitigation Guidelines*, the restored length can be used as compensatory mitigation for the impacts resulting from the relocation.

### 12. Stormwater Management Plan Requirements

- A. For applicants other than the North Carolina Department of Transportation, a Stormwater Management Plan in accordance with the version of *Stormwater Management Plan (SMP) Requirements for Applicants other than the North Carolina Department of Transportation* posted on the Division web site at the time of application shall be provided for any project that meets both of the following two criteria:
  - i. Requires this 401 Water Quality Certification, (regardless of whether written authorization is required by the Division), AND



## Water Quality Certification N<sup>o</sup>. 3704

- ii. Contains one or more drainage areas that are anticipated to have impervious surface cover of equal to or greater than 24 percent. When drainage areas are difficult to delineate or when a pocket of high density exists within a drainage area, the Division shall use best professional judgment to apply the SMP requirement as appropriate. Use of this Certification to construct a private driveway to one single-family residential lot will not trigger the stormwater management plan requirement.

B. For the North Carolina Department of Transportation, compliance with NCDOT's Individual NPDES permit NCS000250 shall serve to satisfy this condition.

13. If this Water Quality Certification is used to access building sites, all lots owned by the applicant must be buildable without additional fill. For road construction purposes, this General Water Quality Certification shall only be utilized from natural high ground to natural high ground.

14. Placement of Culverts and Other Structures in Waters and Wetlands

The application must include construction plans with cross-sectional details in order to indicate that the current stability of the stream will be maintained or enhanced (i.e., not result in head cuts).

Culverts required for this project shall be designed and installed in such a manner that the original stream profiles are not altered and allow for aquatic life movement during low flows. Existing stream dimensions (including the cross section dimensions, pattern, and longitudinal profile) must be maintained above and below locations of each culvert. Placement of culverts and other structures in waters, streams, and wetlands must be placed below the elevation of the streambed by one foot for all culverts with a diameter greater than 48 inches, and 20 percent of the culvert diameter for culverts having a diameter less than or equal to 48 inches, to allow low flow passage of water and aquatic life unless otherwise justified and approved by the Division

Installation of culverts in wetlands must ensure continuity of water movement and be designed to adequately accommodate high water or flood conditions. Additionally, when roadways, causeways or other fill projects are constructed across FEMA-designated floodways or wetlands, openings such as culverts or bridges must be provided to maintain the natural hydrology of the system as well as prevent constriction of the floodway that may result in destabilization of streams or wetlands.

Any rip rap required for normal pipe burial and stabilization shall be buried such that the original stream elevation is restored and maintained.

The establishment of native, woody vegetation and other soft stream bank stabilization techniques must be used where practicable instead of rip-rap or other bank hardening methods.

15. Additional site-specific conditions may be added to the written approval in order to ensure compliance with all applicable water quality and effluent standards.

\*

16. If an environmental document is required under the National or State Environmental Policy Act (NEPA or SEPA), then this General Certification is not valid until a Finding of No Significant Impact (FONSI) or Record of Decision (ROD) is issued by the State Clearinghouse.

## Water Quality Certification N<sup>o</sup>. 3704

17. Deed notifications or similar mechanisms shall be placed on all retained jurisdictional wetlands, waters and protective buffers in order to assure compliance for future wetland, water and buffer impact. These mechanisms shall be put in place at the time of recording of the property, or of individual lots, whichever is appropriate. A sample deed notification can be downloaded from the 401/Wetlands Unit web site at <http://h2o.enr.state.nc.us/ncwetlands>. The text of the sample deed notification may be modified as appropriate to suit to a specific project.

\* 18. Certificate of Completion

When written authorization is required for use of this certification, upon completion of all permitted impacts included within the approval and any subsequent modifications, the applicant shall be required to return the certificate of completion attached to the approval. One copy of the certificate shall be sent to the DWQ Central Office in Raleigh at 1650 Mail Service Center, Raleigh, NC, 27699-1650.

19. This General Certification shall expire three (3) years from the date of issuance of the written approval from the Division or on the same day as the expiration date of the corresponding Nationwide Permit 14 or Regional General Permit 198200031. In accordance with General Statute 136-44.7B, certifications issued to the NCDOT shall expire only upon expiration of the federal 404 Permit. The conditions in effect on the date of issuance of Certification for a specific project shall remain in effect for the life of the project, regardless of the expiration date of this Certification. If the construction process for approved activities will overlap the expiration and renewal date of the corresponding 404 Permit and the Corps allows for continued use of the 404 Permit, then the General Certification shall also remain in effect without requiring re-application and re-approval to use this Certification for the specific impacts already approved.

20. The applicant/permittee and their authorized agents shall conduct all 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 and Federal Law. If the Division determines that such standards or laws are not being met, including 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, then the Division may reevaluate and modify this General Water Quality Certification.

Non-compliance with or violation of the conditions herein set forth by a specific fill project may result in revocation of this Certification for the project and may also result in criminal and/or civil penalties.

The Director of the North Carolina Division of Water Quality may require submission of a formal application for Individual Certification for any project in this category of activity, if it is determined that the project is likely to have a significant adverse effect upon water quality including state or federally listed endangered or threatened aquatic species or degrade the waters so that existing uses of the wetland or downstream waters are precluded.

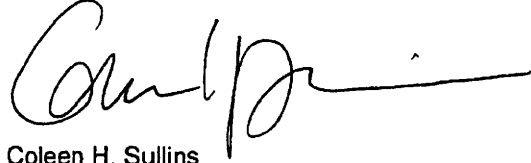
Public hearings may be held for specific applications or group of applications prior to a Certification decision if deemed in the public's best interest by the Director of the North Carolina Division of Water Quality.

Water Quality Certification N<sup>o</sup>. 3704

Effective date: November 1, 2007

DIVISION OF WATER QUALITY

By

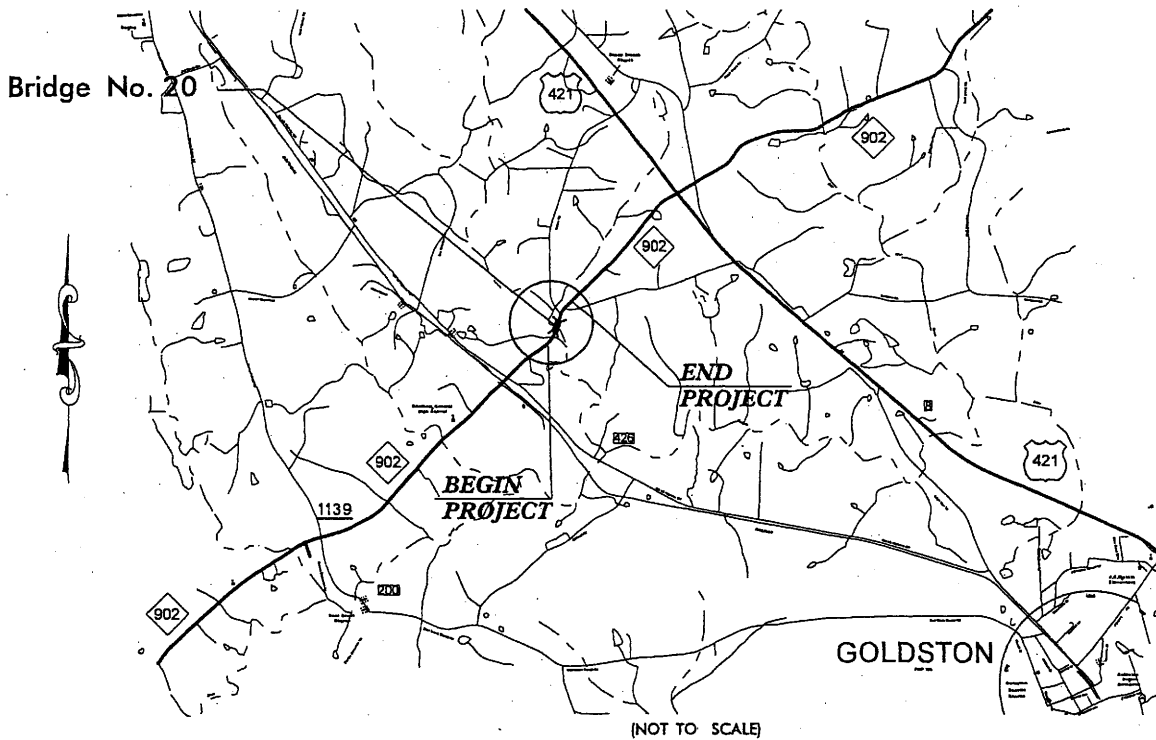
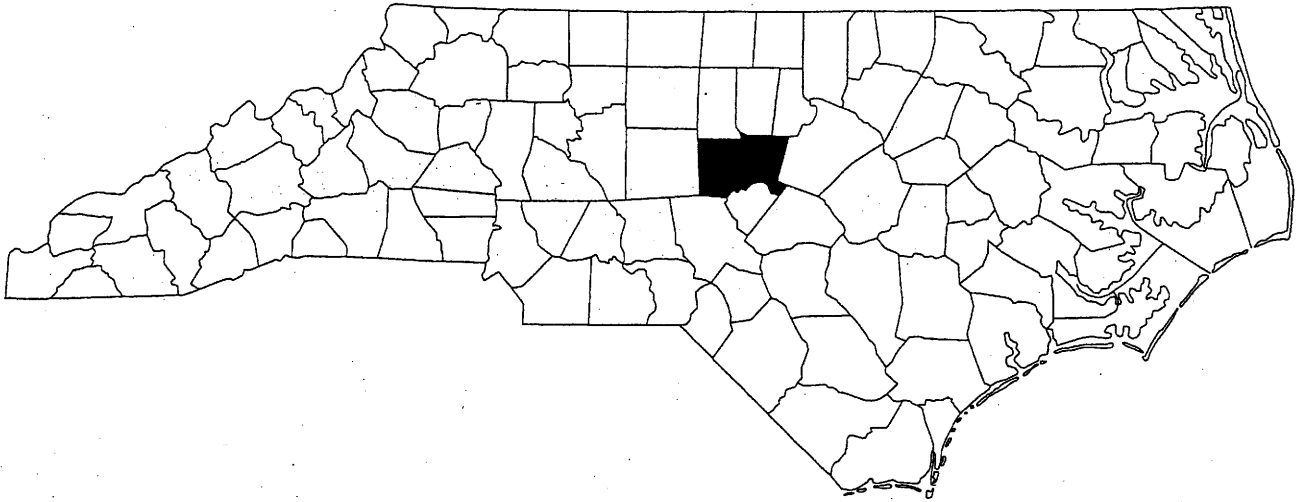


Coleen H. Sullins

Director

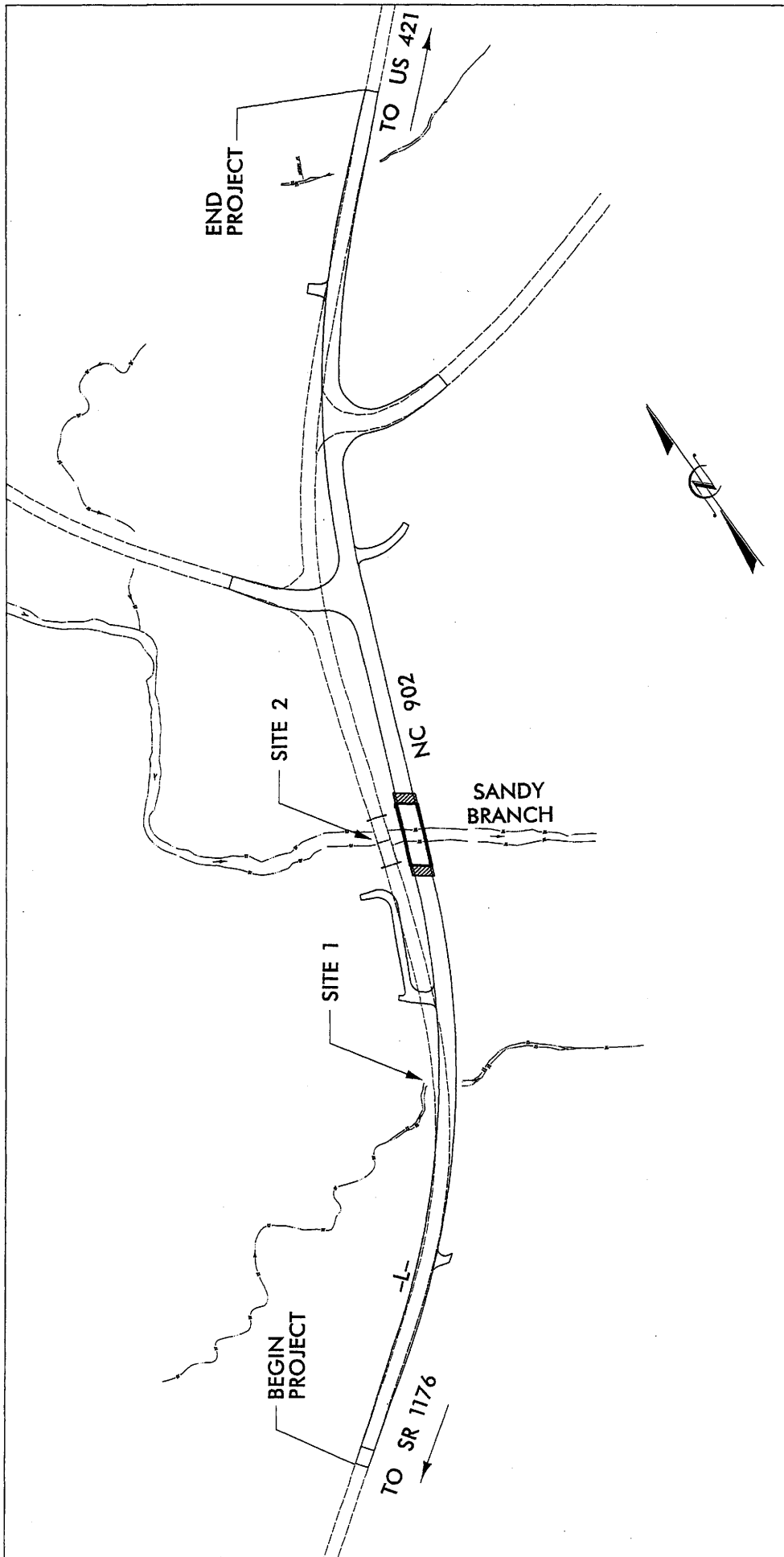
*History Note:* Water Quality Certification Number 3704 replaces Water Quality Certification Number 2177 issued on November 5, 1987; Water Quality Certification Number 2666 issued on January 21, 1992; Water Quality Certification Number 2732 issued on May 1, 1992; Water Quality Certification Number 3103 issued on February 11, 1997; Water Quality Certification Number 3289 issued on June 1, 2000; Water Quality Certification Number 3375 issued March 18, 2002, Water Quality Certification Number 3404 issued March 2003 and Water Quality Certification Number 3627 issued March 2007. This WQC is rescinded when the Corps of Engineers re-authorizes Nationwide Permit 14 or Regional General Permit 198200031 or when deemed appropriate by the Director of the Division of Water Quality.

# NORTH CAROLINA



VICINITY  
MAPS  
(NOT TO SCALE)

NCDOT  
DIVISION OF HIGHWAYS  
CHATHAM COUNTY  
PROJECT: 33427.1.1 (B-4063)  
BRIDGE NO. 20 OVER  
SANDY BRANCH AND  
APPROACHES ON NC 902



NCDOT

DIVISION OF HIGHWAYS  
 CHATHAM COUNTY  
 PROJECT: 33427.1.1 (B-4063)  
 BRIDGE NO. 20 OVER  
 SANDY BRANCH AND  
 APPROACHES ON NC 902

SITE MAP  
 (NOT TO SCALE)

SHEET 2 OF 7

05 / 30 / 2007



## PROPERTY OWNERS

## NAMES AND ADDRESSES

	NAMES	ADDRESSES
1	JEFFREY ADCOCK	P.O. BOX 23 BEAR CREEK, NC 27207
3	DAVID GILMORE	387 SHADY GROVE CH STALEY, NC 273355
4	LUTHER JONES	1359 BARKER RD BEAR CREEK, NC 27207
5	J.B. BEAVER	14125 HWY 902 BEAR CREEK, NC 27207

## NCDOT

DIVISION OF HIGHWAYS  
CHATHAM COUNTY

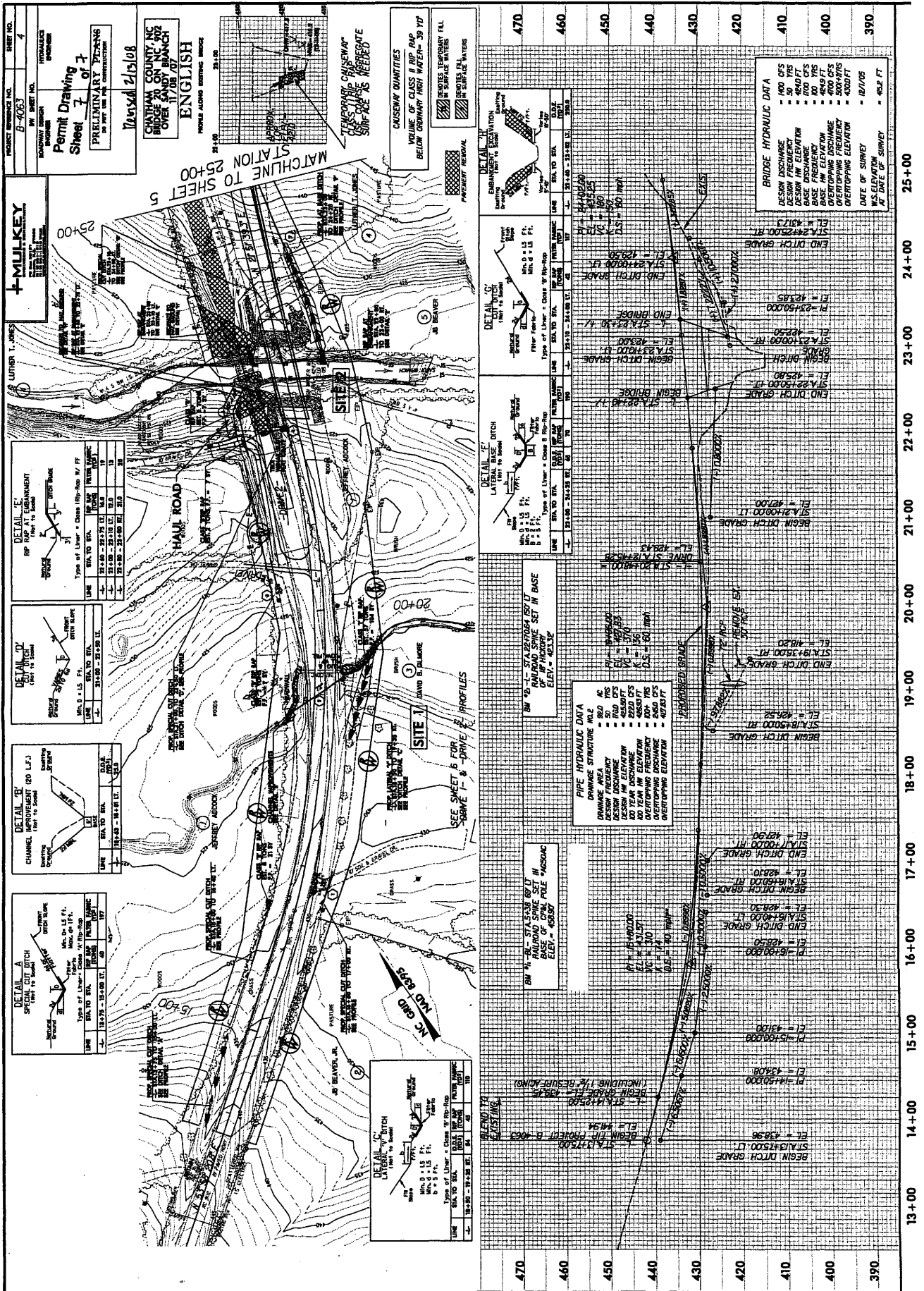
PROJECT: 33427.1.1 (B-4063)

BRIDGE NO. 20 OVER  
SANDY BRANCH AND  
APPROACHES ON NC 902









PROJECT NUMBER NO. B-4063 SHEET NO. 4  
 CONTRACTOR: VITRUMALCO ENGINEERS  
 PERMIT DRAWING SHEET 7 OF 7  
 PRELIMINARY DRAWING FOR THE CONSTRUCTION OF  
 BRIDGE ON NC 402 OVER SANDY BRANCH  
 11/08/07  
 ENGLISH  
 12/15/08  
 CHATHAM COUNTY NC  
 BRIDGE ON NC 402  
 OVER SANDY BRANCH  
 11/08/07  
 ENGLISH  
 12/15/08

MULKEY ENGINEERING  
 1000 LUMBER LANE, SUITE 100  
 FAYETTEVILLE, NC 28404  
 (704) 341-1111  
 WWW.MULKEYENGINEERING.COM

DETAIL C  
 RIP RAP CHANNEL  
 (SEE SHEET 5 FOR DETAILS)

LINE	STA TO STA	TYPE OF LINER	CLASS	RIIP-RAP W/ FF	MIN. SLOPE	MAX. SLOPE
1	18+00 - 18+50	CONCRETE	12"	12"	1:1	1:1
2	18+50 - 19+00	CONCRETE	12"	12"	1:1	1:1
3	19+00 - 19+50	CONCRETE	12"	12"	1:1	1:1
4	19+50 - 20+00	CONCRETE	12"	12"	1:1	1:1
5	20+00 - 20+50	CONCRETE	12"	12"	1:1	1:1
6	20+50 - 21+00	CONCRETE	12"	12"	1:1	1:1
7	21+00 - 21+50	CONCRETE	12"	12"	1:1	1:1
8	21+50 - 22+00	CONCRETE	12"	12"	1:1	1:1
9	22+00 - 22+50	CONCRETE	12"	12"	1:1	1:1
10	22+50 - 23+00	CONCRETE	12"	12"	1:1	1:1
11	23+00 - 23+50	CONCRETE	12"	12"	1:1	1:1
12	23+50 - 24+00	CONCRETE	12"	12"	1:1	1:1
13	24+00 - 24+50	CONCRETE	12"	12"	1:1	1:1
14	24+50 - 25+00	CONCRETE	12"	12"	1:1	1:1

DETAIL D  
 CHANNEL IMPROVEMENT (SEE SHEET 5 FOR DETAILS)

LINE	STA TO STA	TYPE OF LINER	CLASS	RIIP-RAP W/ FF	MIN. SLOPE	MAX. SLOPE
1	18+00 - 18+50	CONCRETE	12"	12"	1:1	1:1
2	18+50 - 19+00	CONCRETE	12"	12"	1:1	1:1
3	19+00 - 19+50	CONCRETE	12"	12"	1:1	1:1
4	19+50 - 20+00	CONCRETE	12"	12"	1:1	1:1
5	20+00 - 20+50	CONCRETE	12"	12"	1:1	1:1
6	20+50 - 21+00	CONCRETE	12"	12"	1:1	1:1
7	21+00 - 21+50	CONCRETE	12"	12"	1:1	1:1
8	21+50 - 22+00	CONCRETE	12"	12"	1:1	1:1
9	22+00 - 22+50	CONCRETE	12"	12"	1:1	1:1
10	22+50 - 23+00	CONCRETE	12"	12"	1:1	1:1
11	23+00 - 23+50	CONCRETE	12"	12"	1:1	1:1
12	23+50 - 24+00	CONCRETE	12"	12"	1:1	1:1
13	24+00 - 24+50	CONCRETE	12"	12"	1:1	1:1
14	24+50 - 25+00	CONCRETE	12"	12"	1:1	1:1

DETAIL E  
 CHANNEL IMPROVEMENT (SEE SHEET 5 FOR DETAILS)

LINE	STA TO STA	TYPE OF LINER	CLASS	RIIP-RAP W/ FF	MIN. SLOPE	MAX. SLOPE
1	18+00 - 18+50	CONCRETE	12"	12"	1:1	1:1
2	18+50 - 19+00	CONCRETE	12"	12"	1:1	1:1
3	19+00 - 19+50	CONCRETE	12"	12"	1:1	1:1
4	19+50 - 20+00	CONCRETE	12"	12"	1:1	1:1
5	20+00 - 20+50	CONCRETE	12"	12"	1:1	1:1
6	20+50 - 21+00	CONCRETE	12"	12"	1:1	1:1
7	21+00 - 21+50	CONCRETE	12"	12"	1:1	1:1
8	21+50 - 22+00	CONCRETE	12"	12"	1:1	1:1
9	22+00 - 22+50	CONCRETE	12"	12"	1:1	1:1
10	22+50 - 23+00	CONCRETE	12"	12"	1:1	1:1
11	23+00 - 23+50	CONCRETE	12"	12"	1:1	1:1
12	23+50 - 24+00	CONCRETE	12"	12"	1:1	1:1
13	24+00 - 24+50	CONCRETE	12"	12"	1:1	1:1
14	24+50 - 25+00	CONCRETE	12"	12"	1:1	1:1

DETAIL F  
 CHANNEL IMPROVEMENT (SEE SHEET 5 FOR DETAILS)

LINE	STA TO STA	TYPE OF LINER	CLASS	RIIP-RAP W/ FF	MIN. SLOPE	MAX. SLOPE
1	18+00 - 18+50	CONCRETE	12"	12"	1:1	1:1
2	18+50 - 19+00	CONCRETE	12"	12"	1:1	1:1
3	19+00 - 19+50	CONCRETE	12"	12"	1:1	1:1
4	19+50 - 20+00	CONCRETE	12"	12"	1:1	1:1
5	20+00 - 20+50	CONCRETE	12"	12"	1:1	1:1
6	20+50 - 21+00	CONCRETE	12"	12"	1:1	1:1
7	21+00 - 21+50	CONCRETE	12"	12"	1:1	1:1
8	21+50 - 22+00	CONCRETE	12"	12"	1:1	1:1
9	22+00 - 22+50	CONCRETE	12"	12"	1:1	1:1
10	22+50 - 23+00	CONCRETE	12"	12"	1:1	1:1
11	23+00 - 23+50	CONCRETE	12"	12"	1:1	1:1
12	23+50 - 24+00	CONCRETE	12"	12"	1:1	1:1
13	24+00 - 24+50	CONCRETE	12"	12"	1:1	1:1
14	24+50 - 25+00	CONCRETE	12"	12"	1:1	1:1

DETAIL G  
 CHANNEL IMPROVEMENT (SEE SHEET 5 FOR DETAILS)

LINE	STA TO STA	TYPE OF LINER	CLASS	RIIP-RAP W/ FF	MIN. SLOPE	MAX. SLOPE
1	18+00 - 18+50	CONCRETE	12"	12"	1:1	1:1
2	18+50 - 19+00	CONCRETE	12"	12"	1:1	1:1
3	19+00 - 19+50	CONCRETE	12"	12"	1:1	1:1
4	19+50 - 20+00	CONCRETE	12"	12"	1:1	1:1
5	20+00 - 20+50	CONCRETE	12"	12"	1:1	1:1
6	20+50 - 21+00	CONCRETE	12"	12"	1:1	1:1
7	21+00 - 21+50	CONCRETE	12"	12"	1:1	1:1
8	21+50 - 22+00	CONCRETE	12"	12"	1:1	1:1
9	22+00 - 22+50	CONCRETE	12"	12"	1:1	1:1
10	22+50 - 23+00	CONCRETE	12"	12"	1:1	1:1
11	23+00 - 23+50	CONCRETE	12"	12"	1:1	1:1
12	23+50 - 24+00	CONCRETE	12"	12"	1:1	1:1
13	24+00 - 24+50	CONCRETE	12"	12"	1:1	1:1
14	24+50 - 25+00	CONCRETE	12"	12"	1:1	1:1

DETAIL H  
 CHANNEL IMPROVEMENT (SEE SHEET 5 FOR DETAILS)

LINE	STA TO STA	TYPE OF LINER	CLASS	RIIP-RAP W/ FF	MIN. SLOPE	MAX. SLOPE
1	18+00 - 18+50	CONCRETE	12"	12"	1:1	1:1
2	18+50 - 19+00	CONCRETE	12"	12"	1:1	1:1
3	19+00 - 19+50	CONCRETE	12"	12"	1:1	1:1
4	19+50 - 20+00	CONCRETE	12"	12"	1:1	1:1
5	20+00 - 20+50	CONCRETE	12"	12"	1:1	1:1
6	20+50 - 21+00	CONCRETE	12"	12"	1:1	1:1
7	21+00 - 21+50	CONCRETE	12"	12"	1:1	1:1
8	21+50 - 22+00	CONCRETE	12"	12"	1:1	1:1
9	22+00 - 22+50	CONCRETE	12"	12"	1:1	1:1
10	22+50 - 23+00	CONCRETE	12"	12"	1:1	1:1
11	23+00 - 23+50	CONCRETE	12"	12"	1:1	1:1
12	23+50 - 24+00	CONCRETE	12"	12"	1:1	1:1
13	24+00 - 24+50	CONCRETE	12"	12"	1:1	1:1
14	24+50 - 25+00	CONCRETE	12"	12"	1:1	1:1

DETAIL I  
 CHANNEL IMPROVEMENT (SEE SHEET 5 FOR DETAILS)

LINE	STA TO STA	TYPE OF LINER	CLASS	RIIP-RAP W/ FF	MIN. SLOPE	MAX. SLOPE
1	18+00 - 18+50	CONCRETE	12"	12"	1:1	1:1
2	18+50 - 19+00	CONCRETE	12"	12"	1:1	1:1
3	19+00 - 19+50	CONCRETE	12"	12"	1:1	1:1
4	19+50 - 20+00	CONCRETE	12"	12"	1:1	1:1
5	20+00 - 20+50	CONCRETE	12"	12"	1:1	1:1
6	20+50 - 21+00	CONCRETE	12"	12"	1:1	1:1
7	21+00 - 21+50	CONCRETE	12"	12"	1:1	1:1
8	21+50 - 22+00	CONCRETE	12"	12"	1:1	1:1
9	22+00 - 22+50	CONCRETE	12"	12"	1:1	1:1
10	22+50 - 23+00	CONCRETE	12"	12"	1:1	1:1
11	23+00 - 23+50	CONCRETE	12"	12"	1:1	1:1
12	23+50 - 24+00	CONCRETE	12"	12"	1:1	1:1
13	24+00 - 24+50	CONCRETE	12"	12"	1:1	1:1
14	24+50 - 25+00	CONCRETE	12"	12"	1:1	1:1

