

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY GOVERNOR LYNDO TIPPETT Secretary

December 19, 2006

MEMORANDUM TO:	Mr. C. E. Lassiter, Jr., PE Division Two Engineer
FROM:	Philip S. Harris, III, P.E., Unit Head Natural Environment Unit Project Development and Environmental Analysis Branch
SUBJECT:	Lenoir County, Replace Bridge No.128 on SR 1515 over Mosely Creek; T.I.P. Number B-4174; Federal Aid Project BRZ-1515(3); State Project 8.2200401

Attached is the U. S. Army Corps of Engineers 404 Nationwide Permit Numbers 12 and 23 and the general conditions for the 401 Water Quality Certification for the above referenced project. All environmental permits have been received for the construction of this project.

PSH/gyb

Attachment

Cc:

Mr. Majed Alghandour, P. E., Programming and TIP
Mr. Jay Bennett, P.E., Roadway Design
Dr. David Chang, P.E., Hydraulics
Mr. Randy Garris, P.E. State Contract Officer
Mr. Art McMillan, P.E., Highway Design
Mr. Greg Perfetti, P.E., Structure Design
Mr. Mark Staley, Roadside Environmental
Mr. John F. Sullivan, FHWA
Mr. Rob Hanson, P.E., PDEA Eastern Region Unit Head
Mr. Jay B. Johnson, Division Environmental Officer

PROJECT COMMITMENTS

Lenoir County Bridge No. 128 on SR 1515 Over Mosely Creek Federal-aid Project No. BRZ-1515(3), State Project No. 8.2200401 WBS No. 33521.1.1 T.I.P. No. B-4174

In addition to the Nationwide Permit 12 Conditions, Nationwide Permit 23 Conditions, the General Nationwide Permit Conditions, Section 404 Only Conditions, Regional Conditions, State Consistency Conditions, NCDOT's <u>Guidelines for Best Management Practices for Bridge Demolition and Removal</u>, NCDOT's <u>Best Management Practices for Protection of Surface Waters</u>, General Certification Conditions, and Section 401 Conditions of Certification, the following special commitments have been agreed to by NCDOT:

Commitments Developed Through Project Development

All Design Groups / Division Resident Engineer - High Quality Wetlands

NCDOT will implement High Quality Waters Sedimentation and Erosion Control Measures

Resident Engineer – School Bus Turn-Around

Lenoir County Schools have indicated that an offsite detour is acceptable but that a turn-around on the north end of the bridge should be established prior to road closure. Please coordinate with the School Bus Superintendent prior to closure.

Commitments Developed Through Permitting

No additional special conditions were created during permitting.



DEPARTMENT OF THE ARMY WILMINGTON DISTRICT, CORPS OF ENGINEERS

Washington Regulatory Field Office P.O. Box 1000 Washington, North Carolina 27889-1000

November 22, 2006



IN REPLY REFER TO

Regulatory Division

Subject: Action ID No. SAW 2006-41502-154 and Nationwide Permit No. 23 (Approved Categorical Exclusions) and 12 (Utility Line Activities)

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

Dear Dr. Thorpe:

Reference your Categorical Exclusion Document, approved on April 12, 2004, and your subsequent correspondence dated October 12, 2006, for the replacement of Bridge No. 128 on NCSR 1515 over Mosely Creek, Federal Aid Project No. BRZ-1515 (3), State Project No. 8.2200401, T.I.P. No. B-4174, Lenoir County, North Carolina. The project involves an off site detour and will replace the existing structure in the same location with a 85-foot bridge utilizing top-down construction adversely impacting 0.61 acres of riverine wetlands adjacent to Mosely Creek.

For the purposes of the Corps of Engineers Regulatory Program, Title 33, Code of Federal Regulations (CFR), Part 330.6, published in the Federal Register on November 22, 1991, lists nationwide permits. Authorization pursuant to Section 10 of the Rivers and Harbors Act of 1899 and Section 404 of the Clean Water Act, was provided for activities undertaken, assisted, authorized, regulated, funded or financed, in whole or part, by another Federal agency or department where that agency or department has determined, pursuant to the CEQ Regulation for the Implementing the Procedural Provisions of the National Environmental Policy Act, that the activity, work or discharge is categorically excluded from environmental documentation because it is included within a category of actions which neither individually nor cumulatively have a significant effect on the human environment, and the Office of the Chief of Engineers has been furnished notice of the agency's or department's application for the categorical exclusion and concurs with that determination.

Review of this project indicates that the construction of the new bridge will permanently impact 0.23 acres of riverine wetlands consisting of 0.18 acres of permanent fill and 0.05 acres of mechanized land clearing in wetlands. Additionally, there will temporary impacts to 0.38 acres of wetlands from hand clearing and the installation of a temporary special sediment control

fence. The permanent wetland impacts are for the widening of the approach fills which are needed for the replacement bridge. The temporary impacts are to aid in the construction of the project (sediment control fence) and to relocate utility lines.

Your work is authorized under Nationwide Permit 23, Categorical Exclusion, and Nationwide Permit 12, Utility Line Activities, provided it is accomplished in strict accordance with the enclosed Nationwide Permit Conditions and the following special conditions:

a. Compensatory mitigation for the unavoidable impacts to 0.23 acres of riparian wetlands associated with the proposed project shall be provided by the Ecosystem Enhancement Program (EEP), as outlined in the letter dated October 16, 2006, from William D. Gilmore, EEP Director. Pursuant to the EEP Memorandum of Agreement (MOA) between the State of North Carolina and the US Army Corps of Engineers signed on July 22, 2003, the EEP will provide 0.46 acres of restoration equivalent riparian wetlands in the Neuse River Basin (Hydrologic Cataloging Unit 03020202) in accordance with Section X of the MOA. For wetlands, a minimum of 1:1 (impact to mitigation) must be in the form of wetland restoration. The NCDOT shall, within 30 days of the issue date of this permit, certify that sufficient funds have been provided to EEP to complete the required mitigation, pursuant to Paragraph V. of the MOA.

b. All measures will be taken to avoid any temporary fill from entering into Mosely Creek from bridge demolition. Bridge demolition shall follow NCDOT best management practices for construction and maintenance activities dated August 2003 and incorporate NCDOT policy entitled "Bridge Demolition and Removal in Waters of the United States" dated September 20, 1999.

c. No bridge demolition debris or excavated or fill material will be placed at any time, in any wetlands or surrounding waters, outside of the alignment of the fill area indicated on the work plans.

d. All excavated materials will be confined above normal high water and landward of regularly or irregularly flooded wetlands behind adequate dikes or retaining structures to prevent spillover of solids into any wetlands or surrounding waters.

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

appropriate compensatory mitigation. This prohibition applies to all borrow and fill activities connected with this project.

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

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

h. Any violation of these conditions or violations of Section 404 of the Clean Water Act or Section 10 of the Rivers and Harbors Act must be reported in writing to the Wilmington District, U.S. Army Corps of Engineers, within 24 hours of the violation.

i. Failure to institute and carry out the details of special conditions a - h., above, may result in a directive to cease all ongoing and permitted work within waters and/or wetlands associated with TIP No. B-4174, or such other remedy as the District Engineer or his authorized representatives may seek.

This nationwide permit does not relieve you of the responsibility to obtain any required State or local approval. This permit is valid until the NWP is modified, reissued, or revoked. All of the existing NWPs are scheduled to be modified, reissued, or revoked prior to March 18, 2007. It is incumbent upon you to remain informed of changes to the NWPs. We will issue a public notice when the NWPs are reissued. Furthermore, if you commence or are under contract to commence this activity before the date that the relevant nationwide permit is modified or revoked, you will have twelve (12) months from the date of the modification or revocation of the NWP to complete the activity under the present terms and conditions of this nationwide permit. If, prior to the expiration date of March 18, 2007, the nationwide permit authorization is reissued and/or modified, this verification will remain valid until March 18, 2007, provided it complies with all new and/or modified terms and conditions. The District Engineer may, at any time, exercise his discretionary authority to modify, suspend, or revoke a case specific activity's authorization under any NWP.

Thank you for your time and cooperation. If you have any questions, you may contact Mr. William Wescott at the Washington Regulatory Field Office, Post Office Box 1000, Washington, North Carolina, 27889, or telephone 252-975-1616, extension 31.

Sincerely,

Willie Rion

William Biddlecome Project Manager

Enclosures

Copies Furnished (without enclosures)

Mr. David Wainwright Water Quality Section North Carolina Division of Environment and Natural Resources 1650 Mail Service Center Raleigh, North Carolina 27699-1650

Mr. Travis Wilson Eastern Region Highway Project Coordinator Habitat Conservation Program 1142 I-85 Service Road Creedmoor, North Carolina 27522

Mr. Gary Jordan U.S. Fish and Wildlife Service Fish and Wildlife Enhancement Post Office Box 33726 Raleigh, North Carolina 27636-3726 Mr. Ron Sechler National Marine Fisheries Service 101 Pivers Island Beaufort, North Carolina 28516

Mr. Chris Militscher U.S. Environmental Protection Agency C/O FHWA, Raleigh Office 310 New Bern Avenue, Room 206 Raleigh, North Carolina 27601

Ms. Kathy Matthews USEPA-Region 4 Wetlands Section 109 T.W. Alexander Drive Durham, North Carolina 27771 Mail Code:E143-04

Mr. William D. Gilmore, P.E. EEP Director North Carolina Ecosystem Enhancement Program 1652 Mail Service Center Raleigh, North Carolina 27699-1652

Mr. Garcy Ward NCDWQ Washington Regional Office 943 Washington Square Mall Washington, North Carolina 27889

County:Lenoir

Permittee: NCDOT

Date Permit Issued: November 22, 2006

Project Manager: <u>Wescott/Biddlecome</u>

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 WASHINGTON REGULATORY FIELD OFFICE Post Office Box 1000 Washington, North Carolina 27889

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

NATIONWIDE PERMIT 12 DEPARTMENT OF THE ARMY CORPS OF ENGINEERS FINAL NOTICE OF ISSUANCE AND MODIFICATION OF NATIONWIDE PERMITS FEDERAL REGISTER AUTHORIZED MARCH 18, 2002

Utility Line Activities. Activities required for the construction, maintenance, and repair of utility lines and associated facilities in waters of the United States as follows:

1. Utility lines: The construction, maintenance, or repair of utility lines, including outfall and intake structures and the associated excavation, backfill, or bedding for the utility lines, in all waters of the United States, provided there is no change in preconstruction contours. A "utility line" is defined as any pipe or pipeline for the transportation of any gaseous, liquid, liquescent, or slurry substance, for any purpose, and any cable, line, or wire for the transmission for any purpose of electrical energy, telephone, and telegraph messages, and radio and television communication (see Note 1, below). Material resulting from trench excavation may be temporarily sidecast (up to three months) into waters of the United States, provided that the material is not placed in such a manner that it is dispersed by currents or other forces. The District Engineer may extend the period of temporary side casting not to exceed a total of 180 days, where appropriate. In wetlands, the top 6" to 12" of the trench should normally be backfilled with topsoil from the trench. Furthermore, the trench cannot be constructed in such a manner as to drain waters of the United States (e.g., backfilling with extensive gravel layers, creating a french drain effect). For example, utility line trenches can be backfilled with clay blocks to ensure that the trench does not drain the waters of the United States through which the utility line is installed. Any exposed slopes and stream banks must be stabilized immediately upon completion of the utility line crossing of each waterbody.

2. Utility line substations: The construction, maintenance, or expansion of a substation facility associated with a power line or utility line in non-tidal waters of the United States, excluding non-tidal wetlands adjacent to tidal waters, provided the activity does not result in the loss of greater than 1/2 acre of non-tidal waters of the United States.

3. Foundations for overhead utility line towers, poles, and anchors: The construction or maintenance of foundations for overhead utility line towers, poles, and anchors in all waters of the United States, provided the foundations are the minimum size necessary and separate footings for each tower leg (rather than a larger single pad) are used where feasible.

4. Access roads: The construction of access roads for the construction and maintenance of utility lines, including overhead power lines and utility line substations, in non-tidal waters of the United States, excluding non-tidal wetlands adjacent to tidal waters, provided the discharges do not cause the loss of greater than 1/2 acre of non-tidal waters of the United States. Access roads shall be the minimum width necessary (see Note 2, below). Access roads must be constructed so that the length of the road minimizes the adverse effects on waters of the United States and as near as possible to preconstruction contours and elevations (e.g., at grade corduroy

roads or geotextile/gravel roads). Access roads constructed above preconstruction contours and elevations in waters of the United States must be properly bridged or culverted to maintain surface flows.

The term "utility line" does not include activities which drain a water of the United States, such as drainage tile or french drains; however, it does apply to pipes conveying drainage from another area. For the purposes of this nationwide permit, the loss of waters of the United States includes the filled area plus waters of the United States that are adversely affected by flooding, excavation, or drainage as a result of the project. Activities authorized by paragraphs (i) through (iv) may not exceed a total of 1/2 acre loss of waters of the United States. Waters of the United States temporarily affected by filling, flooding, excavation, or drainage, where the project area is restored to preconstruction contours and elevation, is not included in the calculation of permanent loss of waters of the United States. This includes temporary construction mats (e.g., timber, steel, geotextile) used during construction and removed upon completion of the work. Where certain functions and values of waters of the United States are permanently adversely affected, such as the conversion of a forested wetland to a herbaceous wetland in the permanently maintained utility line right-of-way, mitigation will be required to reduce the adverse effects of the project to the minimal level.

Mechanized land clearing necessary for the construction, maintenance, or repair of utility lines and the construction, maintenance, and expansion of utility line substations, foundations for overhead utility lines, and access roads is authorized, provided the cleared area is kept to the minimum necessary and preconstruction contours are maintained as near as possible. The area of waters of the United States that is filled, excavated, or flooded must be limited to the minimum necessary to construct the utility line, substations, foundations, and access roads. Excess material must be removed to upland areas immediately upon completion of construction. This NWP may authorize utility lines in or affecting navigable waters of the United States, even if there is no associated discharge of dredged or fill material (See 33 CFR Part 322).

Notification: The permittee must notify the District Engineer in accordance with General Condition 13, if any of the following criteria are met:

a. Mechanized land clearing in a forested wetland for the utility line right-of-way;

b. A Section 10 permit is required;

c. The utility line in waters of the United States, excluding overhead lines, exceeds 500 feet;

d. The utility line is placed within a jurisdictional area (i.e., a water of the United States), and it runs parallel to a streambed that is within that jurisdictional area;

e. Discharges associated with the construction of utility line substations that result in the loss of greater than 1/10 acre of waters of the United States;

f. Permanent access roads constructed above grade in waters of the United States for a distance of more than 500 feet; or

g. Permanent access roads constructed in waters of the United States with impervious materials. (Sections 10 and 404)

Note 1: Overhead utility lines constructed over Section 10 waters and utility lines that are routed in or under Section 10 waters without a discharge of dredged or fill material require a Section 10 permit; except for pipes or pipelines used to transport gaseous, liquid, liquescent, or slurry substances over navigable waters of the United States, which are considered to be bridges, not utility lines, and may require a permit from the U.S. Coast Guard pursuant to Section 9 of the Rivers and Harbors Act of 1899. However, any discharges of dredged or fill material associated with such pipelines will require a Corps permit under Section 404.

Note 2: Access roads used for both construction and maintenance may be authorized, provided they meet the terms and conditions of this nationwide permit. Access roads used solely for construction of the utility line must be removed upon completion of the work and the area restored to preconstruction contours, elevations, and wetland conditions. Temporary access roads for construction may be authorized by Nationwide Permit 33.

Note 3: Where the proposed utility line is constructed or installed in navigable waters of the United States (i.e., Section 10 waters), copies of the Pre-construction Notification and nationwide permit verification will be sent by the Corps to the National Oceanic and Atmospheric Administration, National Ocean Service, for charting the utility line to protect navigation.

NATIONWIDE PERMIT 23 DEPARTMENT OF THE ARMY CORPS OF ENGINEERS FINAL NOTICE OF ISSUANCE AND MODIFICATION OF NATIONWIDE PERMITS FEDERAL REGISTER AUTHORIZED MARCH 18, 2002

Approved Categorical Exclusions: Activities undertaken, assisted, authorized, regulated, funded, or financed, in whole or in part, by another Federal agency or department where that agency or department has determined, pursuant to the Council on Environmental Quality Regulation for Implementing the Procedural Provisions of the National Environmental Policy Act (NEPA) (40 CFR part 1500 et seq.), that the activity, work, or discharge is categorically excluded from environmental documentation because it is included within a category of actions which neither individually nor cumulatively have a significant effect on the human environment, and the Office of the Chief of Engineers (ATTN: CECW-OR) has been furnished notice of the agency's or department's application for the categorical exclusion and concurs with that determination. Before to approval for purposes of this nationwide permit of any agency's categorical exclusions, the Chief of Engineers will solicit public comment. In addressing these comments, the Chief of Engineers may require certain conditions for authorization of an agency's categorical exclusions under this nationwide permit. (Sections 10 and 404)

NATIONWIDE PERMIT GENERAL CONDITIONS

The following General Conditions must be followed in order for any authorization by a NWP to be valid:

1. Navigation. No activity may cause more than a minimal adverse effect on navigation.

2. Proper Maintenance. Any structure or fill authorized shall be properly maintained, including maintenance to ensure public safety.

3. Soil Erosion and Sediment Controls. Appropriate soil erosion and sediment controls must be used and maintained in effective operating condition during construction, and all exposed soil and other fills, as well as any work below the ordinary high water mark or high tide line, must be permanently stabilized at the earliest practicable date. Permittees are encouraged to perform work within waters of the United States during periods of low-flow or no-flow.

4. Aquatic Life Movements. No activity may substantially disrupt the necessary life-cycle movements of those species of aquatic life indigenous to the waterbody, including those species that normally migrate through the area, unless the activity's primary purpose is to impound water. Culverts placed in streams must be installed to maintain low flow conditions.

5. Equipment. Heavy equipment working in wetlands must be placed on mats, or other measures must be taken to minimize soil disturbance.

6. Regional and Case-By-Case Conditions. The activity must comply with any regional conditions that may have been added by the Division Engineer (see 33 CFR 330.4(e)) and with any case specific conditions added by the Corps or by the state or tribe in its Section 401 Water Quality Certification and Coastal Zone Management Act consistency determination.

7. Wild and Scenic Rivers. No activity may occur in a component of the National Wild and Scenic River System; or in a river officially designated by Congress as a 'study river" for possible inclusion in the system, while the river is in an official study status; unless the appropriate Federal agency, with direct management responsibility for such river, has determined in writing that the proposed activity will not adversely affect the Wild and Scenic River designation, or study status. Information on Wild and Scenic Rivers may be obtained from the appropriate Federal land management agency in the area (e.g., National Park Service, U.S. Forest Service, Bureau of Land Management, U.S. Fish and Wildlife Service).

8. Tribal Rights. No activity or its operation may impair reserved tribal rights, including, but not limited to, reserved water rights and treaty fishing and hunting rights.

9. Water Quality.

a. In certain states and tribal lands an individual 401 Water Quality Certification must be obtained or waived (See 33 CFR 330.4(c)).

b. For NWPs 12, 14, 17, 18, 32, 39, 40, 42, 43, and 44, where the state or tribal 401 certification (either generically or individually) does not require or approve water quality management measures, the permittee must provide water quality management measures that will ensure that the authorized work does not result in more than minimal degradation of water quality (or the Corps determines that compliance with state or local standards, where applicable, will ensure no more than minimal adverse effect on water quality). An important component of water quality management includes stormwater management that minimizes degradation of the downstream aquatic system, including water quality (refer to General Condition 21 for stormwater management is the establishment and maintenance of vegetated buffers next to open waters, including streams (refer to General Condition 19 for vegetated buffer requirements for the NWPs).

This condition is only applicable to projects that have the potential to affect water quality. While appropriate measures must be taken, in most cases it is not necessary to conduct detailed studies to identify such measures or to require monitoring.

10. Coastal Zone Management. In certain states, an individual state coastal zone management consistency concurrence must be obtained or waived (see 33 CFR 330.4(d)).

11. Endangered Species.

a. No activity is authorized under any NWP which is likely to jeopardize the continued existence of a threatened or endangered species or a species proposed for such designation, as identified under the Federal Endangered Species Act (ESA), or which will destroy or adversely modify the critical habitat of such species. Non-federal permittees shall notify the District Engineer if any listed species or designated critical habitat might be affected or is in the vicinity of the project, or is located in the designated critical habitat and shall not begin work on the activity until notified by the District Engineer that the requirements of the ESA have been satisfied and that the activity is authorized. For activities that may affect Federally-listed endangered or threatened species or designated critical habitat, the notification must include the name(s) of the endangered or threatened species that may be affected by the proposed work. As a result of formal or informal consultation with the FWS or NMFS the District Engineer may add species-specific regional endangered species conditions to the NWPs.

b. Authorization of an activity by a NWP does not authorize the "take" of a threatened or endangered species as defined under the ESA. In the absence of separate authorization (e.g., an ESA Section 10 Permit, a Biological Opinion with "incidental take" provisions, etc.) from the USFWS or the NMFS, both lethal and non-lethal "takes" of protected species are in violation of the ESA. Information on the location of threatened and endangered species and their critical habitat can be obtained directly from the offices of the USFWS and NMFS or their World Wide Web pages at http://www.fws.gov/r9endspp/endspp.html and http://www.nfms.noaa.gov/prot res/overview/es.html respectively.

12. Historic Properties. No activity that may affect historic properties listed, or eligible for listing, in the National Register of Historic Places is authorized, until the District Engineer has complied with the provisions of 33 CFR part 325, Appendix C. The prospective permittee must notify the District Engineer if the authorized activity may affect any historic properties listed, determined to be eligible, or which the prospective permittee has reason to believe may be eligible for listing on the National Register of Historic Places, and shall not begin the activity until notified by the District Engineer that the requirements of the National Historic Preservation Act have been satisfied and that the activity is authorized. Information on the location and existence of historic resources can be obtained from the State Historic Preservation Office and the National Register of Historic Places (see 33 CFR 330.4(g)). For activities that may affect historic properties listed in, or eligible for listing in, the National Register of Historic Places, the notification must state which historic property may be affected by the proposed work or include a vicinity map indicating the location of the historic property.

13. Notification.

a. Timing; where required by the terms of the NWP, the prospective permittee must notify the District Engineer with a preconstruction notification (PCN) as early as possible. The District Engineer must determine if the notification is complete within 30 days of the date of receipt and can request additional information necessary to make the PCN complete only once. However, if the prospective permittee does not provide all of the requested information, then the District Engineer will notify the prospective permittee that the notification is still incomplete and the PCN review process will not commence until all of the requested information has been received by the District Engineer. The prospective permittee shall not begin the activity:

1. Until notified in writing by the District Engineer that the activity may proceed under the NWP with any special conditions imposed by the District or Division Engineer; or

2. If notified in writing by the District or Division Engineer that an Individual Permit is required; or

3. Unless 45 days have passed from the District Engineer's receipt of the complete notification and the prospective permittee has not received written notice from the District or Division Engineer. Subsequently, the permittee's right to proceed under the NWP may be modified, suspended, or revoked only in accordance with the procedure set forth in 33 CFR 330.5(d)(2).

b. Contents of Notification: The notification must be in writing and include the following information:

1. Name, address and telephone numbers of the prospective permittee;

2. Location of the proposed project;

3. Brief description of the proposed project; the project's purpose; direct and indirect adverse environmental effects the project would cause; any other NWP(s), Regional General Permit(s), or Individual Permit(s) used or intended to be used to authorize any part of the proposed project or any related activity. Sketches should be provided when necessary to show that the activity complies with the terms of the NWP (Sketches usually clarify the project and when provided result in a quicker decision.);

4. For NWPs 7, 12, 14, 18, 21, 34, 38, 39, 40, 41, 42, and 43, the PCN must also include a delineation of affected special aquatic sites, including wetlands, vegetated shallows (e.g., submerged aquatic vegetation, seagrass beds), and riffle and pool complexes (see paragraph 13(f));

5. For NWP 7 (Cutfall Structures and Maintenance), the PCN must include information regarding the original design capacities and configurations of those areas of the facility where maintenance dredging or excavation is proposed;

6. For NWP 14 (Linear Transportation Projects), the PCN must include a compensatory mitigation proposal to offset permanent losses of waters of the US and a statement describing how temporary losses of waters of the US will be minimized to the maximum extent practicable;

7. For NWP 21 (Surface Coal Mining Activities), the PCN must include an Office of Surface Mining (OSM) or state-approved mitigation plan, if applicable. To be authorized by this NWP, the District Engineer must determine that the activity complies with the terms and conditions of the NWP and that the adverse environmental effects are minimal both individually and cumulatively and must notify the project sponsor of this determination in writing;

8. For NWP 27 (Stream and Wetland Restoration Activities), the PCN must include documentation of the prior condition of the site that will be reverted by the permittee;

9. For NWP 29 (Single-Family Housing), the PCN must also include:

i. Any past use of this NWP by the Individual Permittee and/or the permittee's spouse;

ii. A statement that the single-family housing activity is for a personal residence of the permittee;

iii. A description of the entire parcel, including its size, and a delineation of wetlands. For the purpose of this NWP, parcels of land measuring 1/4-acre or less will not require a formal on-site delineation. However, the applicant shall provide an indication of where the wetlands are and the amount of wetlands that exists on the property. For parcels greater than

1/4-acre in size, formal wetland delineation must be prepared in accordance with the current method required by the Corps. (See paragraph 13(f));

iv. A written description of all land (including, if available, legal descriptions) owned by the prospective permittee and/or the prospective permittee's spouse, within a one mile radius of the parcel, in any form of ownership (including any land owned as a partner, corporation, joint tenant, co-tenant, or as a tenant-by-the-entirety) and any land on which a purchase and sale agreement or other contract for sale or purchase has been executed;

10. For NWP 31 (Maintenance of Existing Flood Control Facilities), the prospective permittee must either notify the District Engineer with a PCN prior to each maintenance activity or submit a five-year (or less) maintenance plan. In addition, the PCN must include all of the following:

i. Sufficient baseline information identifying the approved channel depths and configurations and existing facilities. Minor deviations are authorized, provided the approved flood control protection or drainage is not increased;

ii. A delineation of any affected special aquatic sites, including wetlands; and,

iii. Location of the dredged material disposal site;

11. For NWP 33 (Temporary Construction, Access, and Dewatering), the PCN must also include a restoration plan of reasonable measures to avoid and minimize adverse effects to aquatic resources;

12. For NWPs 39, 43 and 44, the PCN must also include a written statement to the District Engineer explaining how avoidance and minimization for losses of waters of the US were achieved on the project site;

13. For NWP 39 and NWP 42, the PCN must include a compensatory mitigation proposal to offset losses of waters of the US or justification explaining why compensatory mitigation should not be required. For discharges that cause the loss of greater than 300 linear feet of an intermittent stream bed, to be authorized, the District Engineer must determine that the activity complies with the other terms and conditions of the NWP, determine adverse environmental effects are minimal both individually and cumulatively, and waive the limitation on stream impacts in writing before the permittee may proceed;

14. For NWP 40 (Agricultural Activities), the PCN must include a compensatory mitigation proposal to offset losses of waters of the US. This NWP does not authorize the relocation of greater than 300 linear feet of existing serviceable drainage ditches constructed in non-tidal streams unless, for drainage ditches constructed in intermittent nontidal streams, the District Engineer waives this criterion in writing, and the District Engineer has determined that the project complies with all terms and conditions of this NWP, and that any adverse impacts of the project on the aquatic environment are minimal, both individually and cumulatively;

15. For NWP 43 (Stormwater Management Facilities), the PCN must include, for the construction of new stormwater management facilities, a maintenance plan (in accordance with state and local requirements, if applicable) and a compensatory mitigation proposal to offset losses of waters of the US. For discharges that cause the loss of greater than 300 linear feet of an intermittent stream bed, to be authorized, the District Engineer must determine that the activity complies with the other terms and conditions of the NWP, determine adverse environmental effects are minimal both individually and cumulatively, and waive the limitation on stream impacts in writing before the permittee may proceed;

16. For NWP 44 (Mining Activities), the PCN must include a description of all waters of the US adversely affected by the project, a description of measures taken to minimize adverse effects to waters of the US, a description of measures taken to comply with the criteria of the NWP, and a reclamation plan (for all aggregate mining activities in isolated waters and non-tidal wetlands adjacent to headwaters and any hard rock/mineral mining activities);

17. For activities that may adversely affect Federally-listed endangered or threatened species, the PCN must include the name(s) of those endangered or threatened species that may be affected by the proposed work or utilize the designated critical habitat that may be affected by the proposed work; and

18. For activities that may affect historic properties listed in, or eligible for listing in, the National Register of Historic Places, the PCN must state which historic property may be affected by the proposed work or include a vicinity map indicating the location of the historic property.

c. Form of Notification: The standard Individual Permit application form (Form ENG 4345) may be used as the notification but must clearly indicate that it is a PCN and must include all of the information required in (b) (1)-(18) of General Condition 13. A letter containing the requisite information may also be used.

d. District Engineer's Decision: In reviewing the PCN for the proposed activity, the District Engineer will determine whether the activity authorized by the NWP will result in more than minimal individual or cumulative adverse environmental effects or may be contrary to the public interest. The prospective permittee may submit a proposed mitigation plan with the PCN to expedite the process. The District Engineer will consider any proposed compensatory mitigation the applicant has included in the proposal in determining whether the net adverse environmental effects to the aquatic environment of the proposed work are minimal. If the District Engineer determines that the activity complies with the terms and conditions of the NWP and that the adverse effects on the aquatic environment are minimal, after considering mitigation, the District Engineer will notify the permittee and include any conditions the District Engineer deems necessary. The District Engineer must approve any compensatory mitigation proposal before the permittee commences work. If the prospective permittee is required to submit a compensatory mitigation proposal with the PCN, the proposal may be either conceptual or detailed. If the prospective permittee elects to submit a compensatory mitigation plan with the PCN, the District Engineer will expeditiously review the proposed compensatory mitigation plan. The District Engineer must review the plan within 45 days of receiving a complete PCN and determine whether the conceptual or specific proposed mitigation would ensure no more than minimal adverse effects on the aquatic environment. If the net adverse effects of the project on the aquatic environment (after consideration of the compensatory mitigation proposal) are determined by the District Engineer to be minimal, the District Engineer will provide a timely written response to the applicant. The response will state that the project can proceed under the terms and conditions of the NWP.

If the District Engineer determines that the adverse effects of the proposed work are more than minimal, then the District Engineer will notify the applicant either:

1. That the project does not qualify for authorization under the NWP and instruct the applicant on the procedures to seek authorization under an Individual Permit;

2. that the project is authorized under the NWP subject to the applicant's submission of a mitigation proposal that would reduce the adverse effects on the aquatic environment to the minimal level; or

3. that the project is authorized under the NWP with specific modifications or conditions. Where the District Engineer determines that mitigation is required to ensure no more than minimal adverse effects occur to the aquatic environment, the activity will be authorized within the 45-day PCN period. The authorization will include the necessary conceptual or specific mitigation or a requirement that the applicant submit a mitigation proposal that would reduce the adverse effects on the aquatic environment to the minimal level. When conceptual mitigation is included, or a mitigation plan is required under item (2) above, no work in waters of the US will occur until the District Engineer has approved a specific mitigation plan.

e. Agency Coordination: The District Engineer will consider any comments from Federal and state agencies concerning the proposed activity's compliance with the terms and conditions of the NWPs and the need for mitigation to reduce the project's adverse environmental effects to a minimal level.

For activities requiring notification to the District Engineer that result in the loss of greater than \1/2\-acre of waters of the US, the District Engineer will provide immediately (e.g., via facsimile transmission, overnight mail, or other expeditious manner) a copy to the appropriate Federal or state offices (USFWS, state natural resource or water quality agency, EPA, State Historic Preservation Officer (SHPO), and, if appropriate, the NMFS). With the exception of NWP 37, these agencies will then have 10 calendar days from the date the material is transmitted to telephone or fax the District Engineer notice that they intend to provide substantive, site-specific comments. If so contacted by an agency, the District Engineer will wait an additional 15 calendar days before making a decision on the notification. The District Engineer will fully consider agency comments received within the specified time frame, but will provide no response to the resource agency, except as provided below. The District Engineer will indicate in the administrative record associated with each notification that the resource agencies' concerns were considered. As required by section 305(b)(4)(B) of the Magnuson-Stevens Fishery Conservation and Management Act, the District Engineer will provide a response to NMFS within 30 days of receipt of any Essential Fish Habitat conservation recommendations. Applicants are encouraged to provide the Corps multiple copies of notifications to expedite agency notification.

f. Wetland Delineations: Wetland delineations must be prepared in accordance with the current method required by the Corps (For NWP 29 see paragraph (b)(9)(iii) for parcels less than (1/4)-acre in size). The permittee may ask the Corps to delineate the special aquatic site. There may be some delay if the Corps does the delineation. Furthermore, the 45-day period will not start until the wetland delineation has been completed and submitted to the Corps, where appropriate.

14. Compliance Certification. Every permittee who has received NWP verification from the Corps will submit a signed certification regarding the completed work and any required mitigation. The certification will be forwarded by the Corps with the authorization letter and will include:

a. A statement that the authorized work was done in accordance with the Corps authorization, including any general or specific conditions;

b. A statement that any required mitigation was completed in accordance with the permit conditions; and

c. The signature of the permittee certifying the completion of the work and mitigation.

15. Use of Multiple Nationwide Permits. The use of more than one NWP for a single and complete project is prohibited, except when the acreage loss of waters of the US authorized by the NWPs does not exceed the acreage limit of the NWP with the highest specified acreage limit (e.g. if a road crossing over tidal waters is constructed under NWP 14, with associated bank stabilization authorized by NWP 13, the maximum acreage loss of waters of the US for the total project cannot exceed \ 1/3\-acre).

16. Water Supply Intakes. No activity, including structures and work in navigable waters of the US or discharges of dredged or fill material, may occur in the proximity of a public water supply intake except where the activity is for repair of the public water supply intake structures or adjacent bank stabilization.

17. Shellfish Beds. No activity, including structures and work in navigable waters of the US or discharges of dredged or fill material, may occur in areas of concentrated shellfish populations, unless the activity is directly related to a shellfish harvesting activity authorized by NWP 4.

18. Suitable Material. No activity, including structures and work in navigable waters of the US or discharges of dredged or fill material, may consist of unsuitable material (e.g., trash,

debris, car bodies, asphalt, etc.) and material used for construction or discharged must be free from toxic pollutants in toxic amounts (see section 307 of the CWA).

19. Mitigation. The District Engineer will consider the factors discussed below when determining the acceptability of appropriate and practicable mitigation necessary to offset adverse effects on the aquatic environment that are more than minimal.

a. The project must be designed and constructed to avoid and minimize adverse effects to waters of the US to the maximum extent practicable at the project site (i.e., on site).

b. Mitigation in all its forms (avoiding, minimizing, rectifying, reducing or compensating) will be required to the extent necessary to ensure that the adverse effects to the aquatic environment are minimal.

c. Compensatory mitigation at a minimum one-for-one ratio will be required for all wetland impacts requiring a PCN, unless the District Engineer determines in writing that some other form of mitigation would be more environmentally appropriate and provides a project-specific waiver of this requirement. Consistent with National policy, the District Engineer will establish a preference for restoration of wetlands as compensatory mitigation, with preservation used only in exceptional circumstances.

d. Compensatory mitigation (i.e., replacement or substitution of aquatic resources for those impacted) will not be used to increase the acreage losses allowed by the acreage limits of some of the NWPs. For example, 1/4-acre of wetlands cannot be created to change a,3/4-acre loss of wetlands to a 1/2-acre loss associated with NWP 39 verification. However, 1/2-acre of created wetlands can be used to reduce the impacts of a 1/2-acre loss of wetlands to the minimum impact level in order to meet the minimal impact requirement associated with NWPs.

e. To be practicable, the mitigation must be available and capable of being done considering costs, existing technology, and logistics in light of the overall project purposes. Examples of mitigation that may be appropriate and practicable include, but are not limited to: reducing the size of the project; establishing and maintaining wetland or upland vegetated buffers

to protect open waters such as streams; and replacing losses of aquatic resource functions and values by creating, restoring, enhancing, or preserving similar functions and values, preferably in the same watershed.

f. Compensatory mitigation plans for projects in or near streams or other open waters will normally include a requirement for the establishment, maintenance, and legal protection (e.g., easements, deed restrictions) of vegetated buffers to open waters. In many cases, vegetated buffers will be the only compensatory mitigation required. Vegetated buffers should consist of native species. The width of the vegetated buffers required will address documented water quality or aquatic habitat loss concerns. Normally, the vegetated buffer .will be 25 to 50 feet wide on each side of the stream, but the District Engineers may require slightly wider vegetated buffers to address documented water quality or habitat loss concerns. Where both wetlands and

open waters exist on the project site, the Corps will determine the appropriate compensatory mitigation (e.g., stream buffers or wetlands compensation) based on what is best for the aquatic environment or, a watershed basis. In cases where vegetated buffers are determined to be the most appropriate form of compensatory mitigation, the District Engineer may waive or reduce the requirement to provide wetland compensatory mitigation for wetland impacts.

g. Compensatory mitigation proposals submitted with the "notification" may be either conceptual or detailed. If conceptual plans are approved under the verification, then the Corps will condition the verification to require detailed plans be submitted and approved by the Corps prior to construction of the authorized activity in waters of the US.

h. Permittees may propose the use of mitigation banks, in-lieu fee arrangements or separate activity-specific compensatory mitigation. In all cases that require compensatory mitigation, the mitigation provisions will specify the party responsible for accomplishing and/or complying with the mitigation plan.

20. Spawning Areas. Activities, including structures and work in navigable waters of the US or discharges of dredged or fill material, in spawning areas during spawning seasons must be avoided to the maximum extent practicable. Activities that result in the physical destruction (e.g., excavate, fill, or smother downstream by substantial turbidity) of an important spawning area are not authorized.

21. Management of Water Flows. To the maximum extent practicable, 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 (unless the primary purpose of the fill is to impound waters) and the structure or discharge of dredged or fill material must withstand expected high flows. The activity must, to the maximum extent practicable, provide for retaining excess flows from the site, provide for maintaining surface flow rates from the site similar to preconstruction conditions, and provide for not increasing water flows from the project site, relocating water, or redirecting water flow beyond preconstruction conditions. Stream channelizing will be reduced to the minimal amount necessary, and the activity must, to the maximum extent practicable, reduce

adverse effects such as flooding or erosion downstream and upstream of the project site, unless the activity is part of a larger system designed to manage water flows. In most cases, it will not be a requirement to conduct detailed studies and monitoring of water flow.

This condition is only applicable to projects that have the potential to affect waterflows. While appropriate measures must be taken, it is not necessary to conduct detailed studies to identify such measures or require monitoring to ensure their effectiveness. Normally, the Corps will defer to state and local authorities regarding management of water flow.

22. Adverse Effects From Impoundments. If the activity creates an impoundment of water, adverse effects to the aquatic system due to the acceleration of the passage of water, and/or the restricting its flow shall be minimized to the maximum extent practicable. This includes

structures and work in navigable waters of the US, or discharges of dredged or fill material.

23. Waterfowl Breeding Areas. Activities, including structures and work in navigable waters of the US or discharges of dredged or fill material, into breeding areas for migratory waterfowl must be avoided to the maximum extent practicable.

24. Removal of Temporary Fills. Any temporary fills must be removed in their entirety and the affected areas returned to their preexisting elevation.

25. Designated Critical Resource Waters. Critical resource waters include, NOAA-designated marine sanctuaries, National Estuarine Research Reserves, National Wild and Scenic Rivers, critical habitat for Federally listed threatened and endangered species, coral reefs, state natural heritage sites, and outstanding national resource waters or other waters officially designated by a state as having particular environmental or ecological significance and identified by the District Engineer after notice and opportunity for public comment. The District Engineer may also designate additional critical resource waters after notice and opportunity for comment.

a. Except as noted below, discharges of dredged or fill material into waters of the US are not authorized by NWPs 7, 12, 14, 16, 17, 21, 29, 31, 35, 39, 40, 42, 43, and 44 for any activity within, or directly affecting, critical resource waters, including wetlands adjacent to such waters. Discharges of dredged or fill materials into waters of the US may be authorized by the above NWPs in National Wild and Scenic Rivers if the activity complies with General Condition 7. Further, such discharges may be authorized in designated critical habitat for Federally listed threatened or endangered species if the activity complies with General Condition 11 and the USFWS or the NMFS has concurred in a determination of compliance with this condition.

b. For NWPs 3, 8, 10, 13, 15, 18, 19, 22, 23, 25, 27, 28, 30, 33, 34, 36, 37, and 38, notification is required in accordance with General Condition 13, for any activity proposed in the designated critical resource waters including wetlands adjacent to those waters. The District Engineer may authorize activities under these NWPs only after it is determined that the impacts to the critical resource waters will be no more than minimal.

26. Fills Within 100-Year Floodplains. For purposes of this General Condition, 100-year floodplains will be identified through the existing Federal Emergency Management Agency's (FEMA) Flood Insurance Rate Maps or FEMA-approved local floodplain maps.

a. Discharges in Floodplain; Below Headwaters. Discharges of dredged or fill material into waters of the US within the mapped 100year floodplain, below headwaters (i.e. five cfs), resulting in permanent above-grade fills, are not authorized by NWPs 39, 40, 42, 43, and 44.

b. Discharges in Floodway; Above Headwaters. Discharges of dredged or fill material into waters of the US within the FEMA or locally mapped floodway, resulting in permanent above-grade fills, are not authorized by NWPs 39, 40, 42, and 44.

c. The permittee must comply with any applicable FEMA-approved state or local

floodplain management requirements.

27. Construction Period. For activities that have not been verified by the Corps and the project was commenced or under contract to commence by the expiration date of the NWP (or modification or revocation date), the work must be completed within 12-months after such date (including any modification that affects the project).

For activities that have been verified and the project was commenced or under contract to commence within the verification period, the work must be completed by the date determined by the Corps.

For projects that have been verified by the Corps, an extension of a Corps approved completion date maybe requested. This request must be submitted at least one month before the previously approved completion date.

FURTHER INFORMATION

1. District Engineers have authority to determine if an activity complies with the terms and conditions of a NWP.

2. NWPs do not obviate the need to obtain other Federal, State, or local permits, approvals, or authorizations required by law.

3. NWPs do not grant any property rights or exclusive privileges.

4. NWPs do not authorize any injury to the property or rights of others.

5. NWPs do not authorize interference with any existing or proposed Federal project.

DEFINITIONS

<u>Best Management Practices (BMPs)</u>: BMPs are policies, practices, procedures, or structures implemented to mitigate the adverse environmental effects on surface water quality resulting from development. BMPs are categorized as structural or nonstructural. A BMP policy may affect the limits on a development.

<u>Compensatory Mitigation</u>: For purposes of Section 10/404, compensatory mitigation is the restoration, creation, enhancement, or in exceptional circumstances, preservation of wetlands and/or other aquatic resources for the purpose of compensating for unavoidable adverse impacts, which remain, after all appropriate and practicable avoidance and minimization has been achieved.

<u>Creation</u>: The establishment of a wetland or other aquatic resource where one did not formerly

exist.

<u>Enhancement</u>: Activities conducted in existing wetlands or other aquatic resources that increase one or more aquatic functions.

<u>Ephemeral Stream</u>: An ephemeral stream has *flowing* water only during and for a short duration after, precipitation events in a typical year. Ephemeral stream beds are located above the water table year-round. Groundwater is not a source of water for the stream. Runnoff from rainfall is the primary source of water for stream flow.

<u>Farm Tract</u>: A unit of contiguous land under one ownership that is operated as a farm or part of a farm.

<u>Flood Fringe</u>: That portion of the 100-year floodplain outside of the floodway (often referred to as "floodway fringe").

<u>Floodway</u>: The area regulated by Federal, state, or local requirements to provide for the discharge of the base flood so the cumulative increase in water surface elevation is no more than a designated amount (not to exceed one foot as set by the National Flood Insurance Program) within the 100-year floodplain.

<u>Independent Utility</u>: A test to determine what constitutes a single and complete project in the Corps regulatory program. A project is considered to have independent utility if it would be constructed absent the construction of other projects in the project area. Portions of a multiphase project that depend upon other phases of the project do not have independent utility. Phases of a project that would be constructed even if the other phases were not built can be considered as separate single and complete projects with independent utility.

<u>Intermittent Stream</u>: An intermittent stream has flowing water during certain times of the year, when groundwater provides water for stream flow. During dry periods, intermittent streams may not have flowing water. Runoff from rainfall is a supplemental source of water for stream flow.

Loss of waters of the US: Waters of the US that include the filled area and other waters that are permanently adversely affected by flooding, excavation, or drainage because of the regulated activity. Permanent adverse effects include permanent above-grade, at-grade, or below-grade fills that change an aquatic area to dry land, increase the bottom elevation of a waterbody, or change the use of a waterbody. The acreage of loss of waters of the US is the threshold measurement of the impact to existing waters for determining whether a project may qualify for a NWP; it is not a net threshold that is calculated after considering compensatory mitigation that may be used to offset losses of aquatic functions and values. The loss of stream bed includes the linear feet of stream bed that is filled or excavated. Waters of the US temporarily filled, flooded, excavated, or drained, but restored to preconstruction contours and elevations after construction, are not included in the measurement of loss of waters of the US. Impacts to ephemeral waters are only not included in the acreage or linear foot measurements of loss of waters of the US or loss of stream bed, for the purpose of determining compliance with the threshold limits of the NWPs.

<u>Non-tidal Wetland</u>: An area that, during a year with normal patterns of precipitation has standing or flowing water for sufficient duration to establish an ordinary high water mark. Aquatic vegetation within the area of standing or flowing water is either non-emergent, sparse, or absent. Vegetated shallows are considered to be open waters. The term "open water" includes rivers, streams, lakes, and ponds. For the purposes of the NWPs, this term does not include ephemeral waters.

<u>Perennial Stream</u>: A perennial stream has flowing water year-round during a typical year. The water table is located above the stream bed for the most of the year. Groundwater is the primary source of water for stream flow. Runoff from rainfall is a supplemental source of water for stream flow.

<u>Permanent Above-grade Fill</u>: A discharge of dredged or fill material into waters of the US, including wetlands, that results in a substantial increase in ground elevation and permanently converts part or all of the waterbody to dry land. Structural fills authorized by NWPs 3, 25, 36, etc. are not included.

<u>Preservation</u>: The protection of ecologically important wetlands or other aquatic resources in perpetuity through the implementation of appropriate legal and physical mechanisms. Preservation may include protection of upland areas adjacent to wetlands as necessary to ensure protection and/or enhancement of the overall aquatic ecosystem.

<u>*Restoration*</u>: Re-establishment of wetland and/or other aquatic resource characteristics and function(s) at a site where they have ceased to exist, or exist in a substantially degraded state.

<u>Riffle and Pool Complex</u>: Riffle and pool complexes are special aquatic sites under the

404(b)(1) Guidelines. Riffle and pool complexes sometimes characterize steep gradient sections of streams. Such stream sections are recognizable by their hydraulic characteristics. The rapid movement of water over a course substrate in riffles results in a rough flow, a turbulent surface and high dissolved oxygen levels in the water. Pools are deeper areas associated with riffles. A slower stream velocity, a streaming flow, a smooth surface, and a finer substrate characterize pools.

<u>Single and Complete Project</u>: The term "single and complete project" is defined at 33 CFR 330.2(i) as the total project proposed or accomplished by one owner/developer or partnership or other association of owners/developers (see definition of independent utility). For linear projects, the "single and complete project" (i.e., a single and complete crossing) will apply to each crossing of a separate water of the US (i.e., a single waterbody) at that location. An exception is for linear projects crossing a single waterbody several times at separate and distant locations; each crossing is considered a single and complete project. However, individual channels in a braided stream or river, or individual arms of a large, irregularly shaped wetland or lake, etc., are not separate waterbodies.

<u>Stormwater Management</u>: Stormwater management is the mechanism for controlling stormwater runoff for the purposes of reducing downstream erosion, water quality degradation, and flooding and mitigating the adverse effects of changes in land use on the aquatic environment.

<u>Stormwater Management Facilities</u>: Stormwater management facilities are those facilities, including but not limited to, stormwater retention and detention ponds and BMPs, which retain water for a period of time to control runoff and/or improve the quality (i.e., by reducing the concentration of nutrients, sediments, hazardous substances and other pollutants) of stormwater runoff.

<u>Stream Channelization</u>: The manipulation of a stream channel to increase the rate of water flow through the stream channel. Manipulation may include deepening, widening, straightening, armoring, or other activities that change the stream cross-section or other aspects of stream channel geometry to increase the rate of water flow through the stream channel. A channelized stream remains a water of the US, despite the modifications to increase the rate of water flow.

<u>*Tidal Wetland:*</u> A tidal wetland is a wetland (i.e., water of the US) that is inundated by tidal waters. The definitions of a wetland and tidal waters can be found at 33 CFR 328.3(b) and 33 CFR 328.3(f), respectively. Tidal waters rise and fall in a predictable and measurable rhythm or cycle due to the gravitational pulls of the moon and sun. Tidal waters end where the rise and fall of the water surface can no longer be practically measured in a predictable rhythm due to masking by other waters, wind, or other effects. Tidal wetlands are located channelward of the high tide line (i.e., spring high tide line) and are inundated by tidal waters two times per lunar month, during spring high tides.

<u>Vegetated Buffer</u>: A vegetated upland or wetland area next to rivers, streams, lakes, or other open waters, which separates the open water from developed areas, including agricultural land. Vegetated buffers provide a variety of aquatic habitat functions and values (e.g., aquatic habitat

for fish and other aquatic organisms, moderation of water temperature changes, and detritus for aquatic food webs) and help improve or maintain local water quality. A vegetated buffer can be established by maintaining an existing vegetated area or planting native trees, shrubs, and herbaceous plants on land next to openwaters. Mowed lawns are not considered vegetated buffers because they provide little or no aquatic habitat functions and values. The establishment and maintenance of vegetated buffers I a method of compensatory mitigation that can be used in conjunction with the restoration, creation, enhancement or preservation of aquatic habitats to ensure that activities authorized by NWPs result in minimal adverse effects to the aquatic environment. (See General Condition 19.)

<u>Vegetated Shallows</u>: Vegetated shallows are special aquatic sites under the 404(b)(1) Guidelines. They are areas that are permanently inundated and under normal circumstances have rooted aquatic vegetation, such as seagrasses in marine and estuarine systems and a variety of vascular rooted plants in freshwater systems.

<u>*Waterbody:*</u> A waterbody is any area that in a normal year has water flowing or standing above ground to the extent that evidence of an ordinary high water mark is established. Wetlands contiguous to the waterbody are considered part of the waterbody.

FINAL REGIONAL CONDITIONS FOR NATIONWIDE PERMITS IN THE WILMINGTON DISTRICT

1. Waters Excluded from NWP or Subject to Additional Notification Requirements:

a. The Corps identified waters that will be excluded from use of this NWP. These waters are:

1. Discharges into Waters of the United States designated by either the North Carolina Division of Marine Fisheries (NCDMF) or the North Carolina Wildlife Resources Commission (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.

2. Discharges into Waters of the United States designated as sturgeon spawning areas are prohibited during the period between February 1 and June 30, without prior written approval from the National Marine Fisheries Service (NMFS).

b. The Corps identified waters that will be subject to additional notification requirements for activities authorized by this NWP. These waters are:

1. Prior to the use of any NWP in any of the following North Carolina *designated waters*, applicants must comply with Nationwide Permit General Condition 13. In addition, the applicant must furnish a written statement of compliance with all of the conditions of the applicable Nationwide Permit. The North Carolina *designated waters* that require additional notification requirements are "Outstanding Resource Waters" (ORW) and "High Quality

Waters" (HQW) (as defined by the North Carolina Division of Water Quality), or "Inland Primary Nursery Areas" (IPNA) (as defined by the North Carolina Wildlife Resources Commission), or contiguous wetlands (as defined by the North Carolina Division of Water Quality), or "Primary Nursery Areas" (PNA) (as defined by the North Carolina Division of Marine Fisheries).

2. Applicants for any NWP in a designated "Area of Environmental Concern" (AEC) in the twenty (20) coastal counties of Eastern North Carolina covered by the North Carolina Coastal Area Management Act (CAMA), must also obtain the required CAMA permit. Construction activities may not commence until a copy of the approved CAMA permit is furnished to the appropriate Wilmington District Regulatory Field Office (Wilmington Field Office – P.O. Box 1890, Wilmington, NC 28402 or Washington Field Office – P.O. Box 1000, Washington, NC 27889) for authorization to begin work.

3. Prior to the use of any NWP on a Barrier Island of North Carolina, applicants must comply with Nationwide Permit General Condition 13. In addition, the applicant shall furnish a written statement of compliance with all of the conditions listed of the applicable Nationwide Permit.

4. Prior to the use of any NWP in a "Mountain or Piedmont Bog" of North Carolina, applicants shall comply with Nationwide Permit General Condition 13. In addition, the applicant shall furnish a written statement of compliance with all of the conditions listed of the applicable NWP.

Note: The following wetland community types identified in the N.C. Natural Heritage Program document, "Classification of Natural communities of North Carolina (Michael P. Schafale and Alan S. Weakley, 1990), are subject to this regional condition.

Mountain Bogs

Swamp Forest-Bog Complex Swamp Forest-Bog Complex (Spruce Subtype) Southern Appalachian Bog (Northern Subtype) Southern Appalachian Bog (Southern Subtype) Southern Appalachian Fen <u>Piedmont Bogs</u> Upland Depression Swamp Forest

5. Prior to the use of any NWP in Mountain Trout Waters within twenty-five (25) designated counties of North Carolina, applicants shall comply with Nationwide General Condition 13. In addition, the applicant shall furnish a written statement of compliance with all of the conditions listed of the applicable NWP. Notification will include a letter of comments and recommendations from the North Carolina Wildlife Resources Commission (NCWRC), the

location of work, a delineation of wetlands, a discussion of alternatives to working in the Mountain Trout Waters, why other alternatives were not selected, and a plan to provide compensatory mitigation for all unavoidable adverse impacts to the Mountain Trout Waters. 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.

Vanaau

The twenty-five (25) designated counties are: Alleghany Ashe Avery

Allegnany	Asne	Avery	r ancey
Buncombe	Burke	Caldwell	Wilkes
Cherokee	Clay	Graham	Swain
Haywood	Henderson	Jackson	Surry
Macon	Madison	McDowell	Stokes
Mitchell	Polk	Rutherford	
Transylvania	Watauga		

6. Applicants shall notify the NCDENR Shellfish Sanitation Section prior to dredging in or removing sediment from an area closed to shell fishing where the effluent may be released to an area open for shell fishing or swimming in order to avoid contamination of the disposal area and allow a temporary shellfish closure to be made. Any disposal of sand to the beach should occur between November 1 and April 30 when recreational usage is low. Only clean sand should be used and no dredged sand from closed shell fishing areas. If beach disposal was to occur at times other than stated above or if sand from a closed shell fishing area is to be used, a swim advisory shall be posted and a press release shall be made. NCDENR Shellfish Sanitation Section must be notified before commencing this activity.

2. List of Final Corps Regional Modifications and Conditions for All Nationwide Permits

a. Individual or multiple NWPs may not be used for activities that result in the cumulative loss or degradation of greater than 300 total linear feet of perennial streambed or intermittent streambed that exhibits important aquatic function(s).

b. Prior to the use of any NWP (except 13, 27, and 39) for any activity that has more than a total of 150 total linear feet of perennial streambed impacts or intermittent streambed impacts (if the intermittent stream has important aquatic function), the applicant must comply with Nationwide Permit General Condition 13. In addition, the applicant shall furnish a written statement of compliance with all of the conditions listed of the applicable NWP. Compensatory mitigation is typically required for any impact that requires such notification. [Note: The Corps uses the Intermittent Channel Evaluation Form, located with Permit Information on the Regulatory Program Web Site, to aid in the determination of the intermittent channel stream status. Also, NWPs 13, 27 and 39 have specific reporting requirements.]

c. For all Nationwide Permits which allow the use of concrete as a building material, 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.

d. For all Nationwide Permits that allow for the use of riprap material for bank stabilization, filter cloth must be placed underneath the riprap as an additional requirement of its use in North Carolina waters.

e. For all NWPs that involve the construction of culverts, measures will be included in the construction that will promote the safe passage of fish and other aquatic organisms. All culverts in the 20 CAMA coastal counties must be buried to a depth of one foot below the



bed of the stream or wetland. For all culvert construction activities, the dimension, pattern, and profile of the stream, (above and below a pipe or culvert), should not be modified by widening the stream channel or by reducing the depth of the stream. 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 Regional Condition may be requested in writing. The waiver will only be issued if it can be demonstrated that the impacts of complying with this Regional Condition would result in more adverse impacts to the aquatic environment.

NORTH CAROLINA DIVISION OF WATER QUALITY GENERAL CERTIFICATION CONDITIONS

For the most recent General Certification conditions, call the NC Division of Water Quality, Wetlands/401 Certification Unit at (919) 733- 1786 or access the following website:

http://h2o.enr.state.nc.us/ncwetlands/certs.html

NORTH CAROLINA DIVISION OF COASTAL MANAGEMENT STATE CONSISTENCY

Consistent.

Citations:

2002 Nationwide Permits - Federal Register Notice 15 Jan 2002 2002 Nationwide Permits Corrections - Federal Register Notice 13 Feb 2002 2002 Regional Conditions – Authorized 17 May 2002

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

December 5, 2006 Craven County DWQ Project No. 20061613 TIP B-4174

RECEIVED

APPROVAL of 401 WATER QUALITY CERTIFICATION and NEUSE RIVER BUFFER RUPPER OFFICE OPNATURE ENVIRONMENT CONDITIONS

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

Dear Dr. Thorpe:

You have our approval, in accordance with the attached conditions and those listed below, for the following impacts:

Wetland (riverine) Impacts in the Neuse River Basin

Site	Fill (permanent) (ac)	Mechanized Clearing (permanent) (ac)	Hand Clearing (temporary) (ac)	Total Wetland Impact (ac)
13+00 to 15+75 (LT)	0.09		0.07	0.16
14+80 to 15+75 (LT)	0.01		0.05	0.06
16+50 to 18+00 (LT)	0.05	0.01	0.03	0.09
16+50 to 18+40 (LT)	0.03	0.03	0.03	0.09
13+00 to 13+73		0.01		0.01
13+73 to 18+78			0.20	0.20
Total	0.18	0.05	0.38	0.61

Total Wetland Impact for Project: 0.61 acres.

Stream and Buffer Impacts in the Neuse River Basin

Site Number	Buffer Zone 1 (square ft)	Buffer Zone 2 (square ft)	Streams (acres)
TIP B-4174	3751	3159	< 0.0001 (bent)
Net Total Impacts	6,9	<0.0001	



Telephone (252) 946-6481 Internet: www.ncwaterquality.org NorthCarolina *Naturally*

N. C. Division of Water Quality FAX (252) 946-9215

ality 943 Washington Square Mall Washington, N.C. 27889 Telepho Internet An Equal Opportunity/Affirmative Action Employer – 50% Recycled/10% Post Consumer Paper

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DEC 11 2006

DIVISION OF HIGHWAYS

The project shall be constructed in accordance with your application dated October 12, 2006 for the purpose of replacing Bridge Number 128 over Mosely Creek on SR 1515 in Lenoir County. After reviewing your application, we have decided that these impacts are covered by General Water Quality Certification Numbers 3374 and 3403. These certifications correspond to Nationwide Permits 12 and 23 respectively, issued by the Corps of Engineers. This approval is also valid for

the Neuse River Buffer Rules (15A NCAC 2B .0233). 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 will expire with the accompanying 404 permit issued by the US Army Corps of Engineers (this supercedes Condition 24 of General Certification 3374 and Condition 10 of General Certification 3403 issued March 1, 2003).

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 total impacts to streams or buffers (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.

- 1.) 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.
- 2.) 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.
- 3.) 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.
- 4.) Erosion and sediment control practices must be in full compliance with all specifications governing the proper design, installation and operation and maintenance of such Best Management Practices in order to protect surface waters standards:
 - a. The erosion and sediment control measures for the project must be designed, installed, operated, and maintained in accordance with the most recent version of the North Carolina Sediment and Erosion Control Planning and Design Manual.
 - b. The design, installation, operation, and maintenance of the sediment and erosion control measures must be such that they equal, or exceed, the requirements specified in the most recent version of the *North Carolina Sediment and Erosion Control Manual*. The devices shall be maintained on all construction sites, borrow sites, and waste pile (spoil) projects, including contractor-owned or leased borrow pits associated with the project.
 - c. For borrow pit sites, the erosion and sediment control measures must be designed, installed, operated, and maintained in accordance with the most recent version of the *North Carolina Surface Mining Manual*.
 - d. The reclamation measures and implementation must comply with the reclamation in accordance with the requirements of the Sedimentation Pollution Control Act.
- 5.) 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.

- 6.) 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.
- 7.) The dimension, pattern, and profile of the stream above and below the crossing should not be modified. Disturbed floodplains and streams should be restored to natural geomorphic conditions.
- 8.) 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.
- 9.) Heavy equipment may be operated within the stream channels however, its usage shall be minimized.
- 10.) 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.
- 11.) No rock, sand or other materials shall be dredged from the stream channel except where authorized by this certification.
- 12.) Discharging hydroseed mixtures and washing out hydroseeders and other equipment in or adjacent to surface waters is prohibited.
- 13.) All fill slopes located in jurisdictional wetlands shall be placed at slopes no flatter than 3:1, unless otherwise authorized by this certification.
- 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.) Native riparian vegetation must be reestablished within the construction limits of the project by the end of the growing season following completion of construction.
- 16.) 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.
- 17.) All stormwater runoff shall be directed as sheetflow through stream buffers at nonerosive velocities, unless otherwise approved by this certification.
- 18.) All riparian buffers impacted by the placement of temporary fill or clearing activities shall be restored to the preconstruction contours and revegetated. Maintained buffers shall be permanently revegetated with non-woody species by the end of the growing season following completion of construction. For the purpose of this condition, maintained buffer areas are defined as areas within the transportation corridor that will be subject to regular DOT maintenance activities including mowing. The area with non-maintained buffers shall be permanently revegetated, with native woody species before the next growing season following completion of construction.
- 19.) Strict adherence to the most recent version of NCDOT's Best Management Practices For Bridge Demolition and Removal approved by the US Army Corps of Engineers is a condition of the 401 Water Quality Certification.
- 20.) Bridge deck drains should not discharge directly into the stream. Stormwater should be directed across the bridge and pre-treated through site-appropriate means (grassed swales, pre-formed scour holes, vegetated buffers, etc.) before entering the stream. Please refer to the most current version of *Stormwater Best Management Practices*.
- 21.) The post-construction removal of any temporary bridge structures must return the project site to its preconstruction contours and elevations. The impacted areas shall be revegetated with appropriate native species.
- 22.) 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.

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, P.O. Box 27447, Raleigh, N.C. 27611-7447. 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 Garcy Ward at (252) 948-3922.

Sincerely While Alan Klimek

Director, Division of Water Quality

Attachment

14

cc: Wilmington District Corps of Engineers
 Mr. William Wescott, US Army Corps of Engineers, Washington Field Office
 Mr. Jay Johnson, Division 2 Environmental Officer, NCDOT
 Mr. Garcy Ward, NC DWQ, Washington Regional Office
 Central Files
 File copy

WQC #3403

GENERAL CERTIFICATION FOR PROJECTS ELIGIBLE FOR CORPS OF ENGINEERS NATIONWIDE PERMIT NUMBER 23 (APPROVED CATEGORICAL EXCLUSIONS) AND RIPARIAN AREA PROTECTION RULES (BUFFER RULES)

This General 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 Regulations in 15A NCAC 2H, Section .0500 and 15A NCAC 2B .0200 for the discharge of fill material to waters and wetland areas as described in 33 CFR 330 Appendix A (B) (23) and for the Riparian Area Protection Rules (Buffer Rules) in 15A NCAC 2B .0200. This Certification replaces Water Quality Certification Number 2670 issued on January 21, 1992, Certification Number 2734 issued on May 1 1993, Certification Number 3107 issued on February 11, 1997 and Water Quality Certification Number 3361 issued March 18, 2002. This WQC is rescinded when the Corps of Engineers re-authorizes Nationwide Permit 23 or when deemed appropriate by the Director of the DWQ.

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.

Conditions of Certification:

- Proposed fill or substantial modification of wetlands or waters (including streams) under this General Certification requires notification to the Division of Water Quality. Two copies shall be submitted to DWQ at the time of notification in accordance with 15A NCAC 2H .0501(a). Written concurrence from DWQ is not required unless any standard conditions of this Certification cannot be met;
- 2. Appropriate sediment and erosion control practices which equal or exceed those outlined in the most recent version of the "North Carolina Sediment and Erosion Control Planning and Design Manual" or the "North Carolina Surface Mining Manual" whichever is more appropriate (available from the Division of Land Resources (DLR) in the DENR Regional or Central Offices) shall be in full compliance with all specifications governing the proper design, installation and operation and maintenance of such Best Management Practices in order to assure compliance with the appropriate turbidity water quality standard;
- 3. In accordance with 15A NCAC 2H .0506 (h) compensatory mitigation may be required for impacts to 150 linear feet or more of streams and/or one acre or more of wetlands. In addition, 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 "Table of Uses" section of the Buffer Rules or require a variance under the Buffer Rules. A determination of buffer, wetland and stream mitigation requirements shall be made for any Certification for this Nationwide Permit. The most current design and monitoring protocols from DWQ shall be followed and written plans submitted for DWQ approval as required in those protocols. When compensatory mitigation is required for a project, the mitigation plans must be approved by DWQ in writing before the impacts approved by the Certification occur. 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 travelling public;

- 4. Compensatory stream mitigation shall be required at a 1:1 ratio for not only perennial but also intermittent stream impacts equal to or exceeding 150 feet and that require application to DWQ in watersheds classified as ORW, HQW, Tr, WS-I and WS-II unless the project is a linear, publicly-funded transportation project, which has a 150-foot per-stream impact allowance;
- 5. All sediment and erosion control measures placed in wetlands or waters shall be removed and the original grade restored within two months after the Division of Land Resources has released the project;
- 6. Measures shall be taken to prevent live or fresh concrete from coming into contact with freshwaters of the state until the concrete has hardened;
- In accordance with North Carolina General Statute Section 143-215.3D(e), any request for written concurrence for a 401 Water Quality 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;
- 8. Impacts to any stream length in the Neuse, Tar-Pamlico, Randleman and Catawba River Basins (or any other river basins with Riparian Area Protection Rules [Buffer Rules] in effect at the time of application) requires written concurrence from DWQ in accordance with 15A NCAC 2B.0200. Activities listed as "exempt" from these rules do not need to apply for written concurrence under this Certification. New development activities located in the protected 50-foot wide riparian areas (whether jurisdictional wetlands or not) within the Neuse, Tar-Pamlico, Randleman and Catawba River Basins shall be limited to "uses" identified within and constructed in accordance with 15A NCAC 2B .0200. All new development 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;
- 9. Additional site-specific conditions may be added to projects for which written concurrence is required or requested under this Certification in order to ensure compliance with all applicable water quality and effluent standards;
- 10. Concurrence from DWQ that this Certification applies to an individual project 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 Nationwide and Regional General Permits, whichever is sooner;
- 11. When written concurrence is required, the applicant is required to use the most recent version of the Certification of Completion form to notify DWQ when all work included in the 401 Certification has been completed.

Non-compliance with or violation of the conditions herein set forth by a specific fill project shall result in revocation of this Certification for the project and may 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 that requires written concurrence under this certification, if it is determined that the project is likely to have a significant adverse effect upon water quality or degrade the waters so that existing uses of the wetland, stream 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.

Effective date: March 2003

DIVISION OF WATER QUALITY

By

Alan W. Klimek, P.E.

Director

WQC # 3403

UTILITY LINE BACKFILL AND BEDDING CERTIFICATION

GENERAL CERTIFICATION FOR PROJECTS ELIGIBLE FOR CORPS OF ENGINEERS NATIONWIDE PERMIT NUMBER 12 OR REGIONAL PERMIT 198100049 (UTILITY LINE BACKFILL AND BEDDING) AND RIPARIAN AREA PROTECTION RULES (BUFFER RULES)

This General 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 15A NCAC 2H, Section .0500 and 15A NCAC 2B .0200 for the discharge of fill material to waters and wetland areas as described in 33 CFR 330 Appendix A (B) (12) and General Permit No. 198100049 of the Corps of Engineers regulations (i.e., including any fill activity for utility line backfill and bedding) and for the Riparian Area Protection Rules (Buffer Rules) in 15A NCAC 2B .0200. This certification replaces Water Quality Certification (WQC) Number 2664 issued on January 21, 1992, Water Quality Certification Number 3022 issued on September 6, 1995, Water Quality Certification (WQC) Number 3101 issued on February 11, 1997 and Water Quality Certification Number 3288 issued on June 1, 2000. This WQC is rescinded when the Corps of Engineers reauthorize Nationwide 12 or Regional Permit 198100049 or when deemed appropriate by the Director of the Division of Water Quality.

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.

Conditions of Certification:

- Activities covered by this General Certification do not require written concurrence from the Division of Water Quality as long as they comply with all conditions of this General Certification and the conditions of Nationwide 12 or Regional Permit 198100049 as appropriate. If any condition in this Certification cannot be met, application to and written concurrence from DWQ are required. Also, Condition No. 6 is applicable to all streams in basins with riparian area protection rules;
- In accordance with North Carolina General Statute Section 143-215.3D(e), any request for written concurrence for a 401 Water Quality 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;
- 3. In accordance with 15A NCAC 2H .0506 (h) compensatory mitigation may be required for stream and/or wetland impacts. Streamside 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 "Table of Uses" section of the Buffer Rules or require a variance under the Buffer Rules. A determination of buffer, wetland and stream mitigation requirements shall be made by DWQ for any Certification involving written concurrences including those for relevant Buffer Rules;
- 4. The edge of the construction corridor shall not be installed parallel to and closer than 10 feet (3 meters) to a stream and 25 feet in waters classified as HQW. Utility lines shall not cross a stream channel at other than a near-perpendicular direction (i.e., stream channel crossings shall not be at an angle of less than 75 degrees or more than 105 degrees to the stream bank);

- 5. Any wastewater line that crosses any stream shown on the most recent version of the 1:24,000 USGS topographic map or NRCS (SCS) County Soil Survey as permanent or intermittent shall be installed with no joints connected within the footprint of a stream channel or within 2 feet of the stream banks. Otherwise, written concurrence from DWQ is required;
- 6. Impacts to any stream length in the Neuse, Tar-Pamlico, Randleman and Catawba River Basins (or any other river basins with Buffer Rules in effect at the time of application) requires written concurrence from DWQ in accordance with 15A NCAC 2B.0233, .0259, .0250 and .0243. Activities listed as "exempt" from these rules do not need to apply for written concurrence under this Certification. New development activities located in the protected 50-foot wide riparian areas (whether jurisdictional wetlands or not) within the Neuse, Tar-Pamlico and Randleman River Basins shall be limited to "uses" identified within and constructed in accordance with 15A NCAC 2B .0233, .0259, .0250 and .0243. All new development 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;
- 7. Measures shall be taken to prevent live or fresh concrete from coming into contact with waters of the state until the concrete has hardened;
- 8. Herbicides can be applied in wetlands or other waters only when applied by a certified applicator, and in strict accordance with product labeling;
- 9. Placement of rip rap is restricted to the stream bottom and banks directly impacted by the placement of the utility line. Rip rap may only be used below the normal high water level. The stream cross section must be restored to its original grade and elevation. Placement of rip rap or other materials shall not result in de-stabilization of the stream bed or banks upstream of downstream of the crossing;
- 10. That appropriate sediment and erosion control practices which equal or exceed those outlined in the most recent version of the "North Carolina Sediment and Erosion Control Planning and Design Manual" or the "North Carolina Surface Mining Manual" whichever is more appropriate (available from the Division of Land Resources (DLR) in the DENR Regional or Central Offices) shall be in full compliance with all specifications governing the proper design, installation and operation and maintenance of such Best Management Practices in order to assure compliance with the appropriate turbidity water quality standard;
- All sediment and erosion control measures placed in wetlands or waters shall be removed and the original grade restored within two months after the Division of Land Resources has released the project;
- Annual native species suitable for wet locations shall be planted and established within jurisdictional wetlands for soil and erosion control. Perennials such as fescue are prohibited;
- 13. No fertilizer shall be applied within 10 feet (3 meters) of streams. Any fertilizer application must comply with all other Federal, State and Local regulations;
- The construction corridor (including access roads and stockpiling of materials) is limited to 40 feet (12.2 meters) in width in wetlands and across stream channels and must be minimized to the maximum extent practicable;

- 15. Permanent, maintained access corridors shall be restricted to the minimum width practicable and shall not exceed 10 feet (3 meters) in width except at manhole locations. A 10 feet (3 meters) by 10 feet (3 meters) perpendicular vehicle turnaround must be spaced at least 500 feet (152.4 meters) apart. Written concurrence is required if the maintenance corridor is greater than 10 feet (3 meters) wide except that a maintenance corridor larger than ten feet is acceptable for gas pipelines as long as mitigation is provided for additional wetland fills to the maintenance corridor beyond those widths specified in this General Certification;
- 16. An anti-seep collar shall be placed at the downstream (utility line gradient) wetland boundary and every 150 feet (45.7 meters) up the gradient until the utility exits the wetland for buried utility lines. Anti-seep collars may be constructed with class B concrete, compacted clay, PVC pipe, or metal collars. Wetland crossings that are directionally drilled, and perpendicular wetland crossings that are open cut and less than 150 feet (45.7 meters) long do not require anti-seep collars. The compacted clay shall have a specific discharge of 1 X 10-5 cm/sec or less. A section and plan view diagram is attached for the anti-seep collars;

The following specifications shall apply to class B concrete:

- a) Minimum cement content, sacks per cubic yard with rounded course aggregate 5.0
- b) Minimum cement content, sacks per cubic yard with angular course aggregate 5.5
- c) Maximum water-cement ratio gallons per sack 6.8
- d) Slump range 2" to 4"
- e) Minimum strength 28 day psi 2,500
- 17. This General Certification does not authorize any permanent changes in pre-construction elevation contours in waters or wetlands or stream dimension, pattern or profile. The permittee will have a specific plan for restoring wetland contours. Any excess material will be removed to a high ground disposal area;
- If an environmental document is required, this Certification is not valid until a Finding of No Significant Impact (FONSI) or Record of Decision (ROD) is issued by the State Clearinghouse;
- Stormwater management will not be required for this Certification as long as all other Conditions are met. However, in the twenty coastal counties, the appropriate DWQ Regional Office must be contacted to determine if Coastal Stormwater Regulations still apply;
- 20. Compensatory mitigation (i.e., restoration, creation or preservation) for wetland losses will not be required for this Certification if written concurrence is not needed;
- 21. Payment of a dollar per acre figure into the Wetland Restoration Program for these impacts is acceptable when compensatory mitigation is required as long as the Wetlands Restoration Program agrees in writing to accept this payment. Other mitigation plans must receive written DWQ concurrence;
- 22. This Certification does not relieve the applicant of the responsibility to obtain all other required Federal, State or local approvals;
- Additional site-specific conditions may be added to projects for which written concurrence is required or requested under this Certification in order to ensure compliance with all applicable water quality and effluent standards;

- 24. Concurrence from DWQ that this Certification applies to an individual project 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 Nationwide Permit 12 or Regional Permit 198100049 whichever is sooner;
- 25. When written concurrence is required, the applicant is required to use the most recent version of the Certification of Completion form to notify DWQ when all work included in the 401 Certification has been completed.

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 that requires written concurrence under this certification, if it is determined that the project is likely to have a significant adverse effect upon water quality 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.

Effective date: 18 March 2002 DIVISION OF WATER QUALITY By

Gregory J. Thorpe, Ph.D.

Acting Director

WQC # 3374















PROFILE (VERTICAL)

* TTST 2% + DUAL 4%

STATE	STATE PROJECT REFERENCE NO.	SHEET TOTAL NO. 5HBBT5
N.C.	B-4174	1 4ofg
STATE PROLNO.	P.A. PROJ. NO.	DESCRIPTION
33521.1.1	BRZ-1515(3)	PE
33521.2.1	BRZ-1515(3)	R/W & UTIL.



	PRELIMINARY PLANS DO NOT USE POR CONSTRUCTION
IGINEER	DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

-	P.E. SIGNATURE: ROADWAY DESIGN ENGINEER	P.E. STATE DESIGN ENGINEER DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION
	SIGNATURE:	AFFROYED DIVISION ADMINISTRATOR DATE
	SIGURIUNDI	DIVISION ADMINISTRATOR DATE



1	ROJECT REFERENCE NO),	SHEET N	0.
	B-4174		4	
	RW SHEET N	ю.	5 of	8
R	DADWAY DESIGN Engineer		HYDRAULICS	
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	PRELIMINA DO NOT USE FO			
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PROJECT REFERENCE NO), SHEET NO.
<u>B-4174</u>	4
RW SHEET N	10. 60fB
ROADWAY DESIGN Engineer	HYDRAULICS Engineer
INCOMPLE DO NOT USE FOR	
PRELIMINA DO NOT USE PO	RY PLANS CONSTRUCTION

	Natural Stream	Design (ft)	0	ο	0	ο	TATION NOTAT	(4)	
DACTS	Existing Channel Impacts	Temp. (ft)	0	0	0	0	F TRANSPOR	LENOIR COUNTY 33521.1.1 (B-4174)	
RY SI IPEACE WATER IMPACTS	Existing Channel Impacts	Permanent (ft)	0	0	0	0	NC DEPARTMENT OF TRANSPORTATION	UENOIR CC WBS - 33521.1.1	د د ر
RY SURFACE	Temp. SW	impacts (ac)	0.00	0.00	0.00	0.00	NC D NC		
CT SUMMA	Permanent SW	impacts (ac)	0.00	0.00	0.00	0.00			
SMIT IMPA	Hand Clearing in	Wetlands (ac)	0.07	0.05	0.03	0.03	0.18		
WETLAND PERMIT IMPACT SUMMARY	Mechanized	in Wetlands (ac)	0.00	0.00	0.01	0.03	0.04		
WETL	Excavation in	Wetlands (ac)	0.00	0.00	0.00	0.00			
LUKET	Temp. Fill In	Wetlands (ac)	0.00	0.00	0.00	0.00			
	Permanent Fill In	Wetlands (ac)	0.09	0.01	0.05	0.03	0.18		
	Structure	Size / Type	Bridge	Bridge	Bridge	Bridge			
	Station	(From/To)	13+00 to 15+75 (LT)	14+80 to 15+75 (RT)	16+50 to 18+00 (LT)	16+50 to 18+40 (RT			
	Site	o Z	-	5	σ	4	TOTALS		

PROPERTY OV

OWNERS

ADDRESS	1473 HOOKS ROAD FREMONT, NC 27830	606 E. WASHINGTON STREET LAGRANGE, NC 28551	401 HENDERSON STREET MOUNT OLIVE, NC 28365	5501 ALDRIDGE STORE ROAD LAGRANGE, NC 28551	3593 WILLIE MEASLEY ROAD LAGRANGE, NC 28551
PROPERTY OWNER	HARRY E. TART	HUGH G. WALTERS	NORWOOD ODOM	MICHAEL BAREFOOT	WILLIAM DOUGLAS HILL
PARCEL	\bigcirc	5	M	(4)	2

WETLAND PERMIT









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TO KINSTON			
		PRELIMINAL DO NOT USE FOR	RY PLANS
HYDRAULICS EN	IGINEER	DIVISION OF H STATE OF NORTH	IGHWAYS CAROLINA
SIGNATURE: ROADWAY DE, ENGINEER		STATE DESIGN ENGINEER DEPARTMENT OF IR FEDERAL HIGHWAY A	
SIGNATURE:	P.E.	APPROVED DIVISION ADMINISTRATOR	DATE

STATE	PROJECT REFERENCE NO.			TOTAL SHBBTS	
	B-4 174		1	4 ₂₄ 8	
NO.	P. A. PROJ. NO.	D	BACRIP	TION	
1.1	BRZ-1515(3)		PE		
2.1	BRZ-1515(3)	R/W	å	UTIL.	
		1.1 BRZ-1515(3)	В—4174 1.1 ВКZ-1515(3)	В-4174 1 ма. Р. А. РЕСКР 1.1 ВRZ-1515(3) РЕ	





INPACT INPACT <th colspa<="" th=""><th></th><th></th><th></th><th>B</th><th>JFFEF</th><th>BUFFER IMPACTS SUMMARY</th><th>CTS S</th><th>UMM/</th><th>ARY</th><th></th><th></th><th></th><th></th><th></th></th>	<th></th> <th></th> <th></th> <th>B</th> <th>JFFEF</th> <th>BUFFER IMPACTS SUMMARY</th> <th>CTS S</th> <th>UMM/</th> <th>ARY</th> <th></th> <th></th> <th></th> <th></th> <th></th>				B	JFFEF	BUFFER IMPACTS SUMMARY	CTS S	UMM/	ARY					
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KATON ROAD RPARALLEL ZONE 1 CONT TOTAL CONE 1 CONE 1 <th></th> <th></th> <th></th> <th></th> <th>ТҮРЕ</th> <th></th> <th>ALI</th> <th>LOWABL</th> <th>щ</th> <th></th> <th>MITIGABI</th> <th>Ш</th> <th>REPLAC</th> <th>CEMENT</th>					ТҮРЕ		ALI	LOWABL	щ		MITIGABI	Ш	REPLAC	CEMENT	
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164-125 (LT) x 30 0 340 0 0 0 164-125 (RT) x x 0 279 279 0 0 0 164-125 (RT) x x 147 0 0 0 0 0 164-125 (RT) x x 147 0 0 0 0 0 164-125 (RT) x x 15 55 567 0 0 0 0 164-125 (RT) x x 115 555 567 0 0 0 0 164-154 (LT) x x 138 386 524 0 0 0 0 164-164 (RT) x x 138 386 524 0 0 0 0 164-164 (RT) x x 138 386 524 0 0 0 0 164-164 (RT) x x 138 386 524 0 0 0 164-164 (RT) x x 138 386 524 0 0 0 164-164 (RT) x x 138 3159 6010 0 0	-	Bridge	13+00 to 15+70 (LT)	×			2306	1782					0		
0 15+70 (R1) x 0 278 29 0 0 0 16+12.5 (R1) x x 200 11 471 0 0 0 16+12.6 (L1) x x 15 52 567 0 0 0 16+10.4 (L1) x x 15 52 567 0 0 0 16+10.4 (R1) x x 136 338 0 354 0 0 0 15 52 567 0 354 0 35 0 0 0 16+55 (R1) x x 136 388 524 0 0 0 0 15 338 524 0 35 0 0 0 0 15 338 524 0 0 0 0 0 16 1369 6010 0 0 0 0 0 17 1850 1950 6010 0 0 0 17 16 0 0 0 0 0 16 17 1950 6010 0 0 0 17 16			15+70 to 16+12.5 (LT)		×		340	0		0			0		
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018+40 (FT) x 354 0 0 0 0 018+40 (FT) x 136 388 524 0 0 0 018+45 (FT) x 136 388 524 0 0 0 018+45 (FT) x 136 388 524 0 0 0 018+55 (FT) x 136 388 524 0 0 0 018+55 (FT) x 136 388 524 0 0 0 018+55 (FT) x 135 3159 6810 0 0 0 018 x 3751 3159 6810 0 0 0 018 FC F 1 0 0 0 018 x 0 0 0 0 0 1112 1218 1112 1112 1112 1112 1112 1117 1117 1112 1112 1112 1112 1117 1117 1112 1112 1112 1112 1117 1117 1112 1112 1112 1111 1112 1112 1112 1112 1112 <td></td> <td></td> <td>16+12.5 to 16+55 (LT)</td> <td></td> <td>×</td> <td></td> <td>15</td> <td>552</td> <td></td> <td>0</td> <td></td> <td></td> <td>0</td> <td></td>			16+12.5 to 16+55 (LT)		×		15	552		0			0		
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PLO 200 PLO 200 9/14/2006 SHEET 7 OF 8	otal Permar	rent Wetland Impacts =	0.220 Ac.	L L L							2	I.C. DEPT. OF DIVISION (TRANSPORT	ATION S	
PLC 200 9/14/2006 SHEET 7 OF 8))							LENOI	R COUNTY 521.1.1.2 (B-	4174)	
				လ ဦ	_		æ.					9/1 SHEET			
				PDEA-OFFIC	, , ,									Rev. May 2	

5/1/06 REPLACEMENT OF BRG.[#] 128 PROJECT: 33521.1.1 (B-4174) OWNERS DIVISION OF HIGHWAYS OVER MOSELEY CREEK (ALDRIDGE STORE RD.) LENOIR COUNTY ALONG SR 1515 NCDOT SHEET 8 OF 3 PROPERTY 3593 WILLIE MEASLEY ROAD 5501 ALDRIDGE STORE ROAD LAGRANGE, NC 28551 606 E. WASHINGTON STREET MOUNT OLIVE, NC 28365 401 HENDERSON STREET LAGRANGE, NC 28551 · LAGRANGE, NC 2855I FREMONT, NC 27830 1473 HOOKS ROAD ADDRESS WILLIAM DOUGLAS HILL **BUFFER PERMIT** MICHAEL BAREFOOT HUGH G. WALTERS PROPERTY OWNER NORWOOD ODOM HARRY E. TART PARCEL ഹ \sim 4 \mathbb{M}



	PROJECT: B-4174 A	REA AFFECT	ED BY PRO	P. PUE CLEARING				
					UPDATED: 10			
					filename: b417	4 Ut Envir P	ermit.xls	_
								_
	MECHANIZED CLEARI	NG		HAND CLEARING				
	(SQ FT)			(SQ FT)				
							-	
Area 1	375.03		Area 2	8,746.65				
Area 3			Area 4					
		375.03		TOTAL (SQ FT):	8,746.65	-		
	TOTAL (SQ FT): TOTAL (ACREAGE):	0.01		TOTAL (ACREAGE):	0.20		-	
	TOTAL (ACREAGE).	0.01		TOTAL (ACINEAGE).	0.20			
	1 acre = <u>43,560</u> sq ft							
		43,560						
	TOTAL AREA OF WETLA	ND THAT WILL	BE IMPACTE	D BY PUE CLEARING :		0.21	Acres	



STATE	STAT	PROJECT REPERENCE NO.	SHEET NO.	TOTAL SHBBTS
N.C.		B -4174	1	
STATE PRO	J.NO.	F.A.PROLNO.	Disch	PTION
33521	.1.1	BRZ-1515(3)	P	E
33521.	2.1	BRZ-1515(3)	R/W &	UTIL.
• • • • • • • •				
	····		+	

HUD 8395

PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION

HYDRAULICS ENGINEER	DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA
- SIGNATURE: P.E.	P.E.
ROADWAY DESIGN	STATE DESIGN ENGINEER
ENGINEER	DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION
P.E.	APPROVED
SIGNATURE:	DIVISION ADMINISTRATOR DATE

Note: Not to Scale *S.U.E. = Subsurface Utility Engineering

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS CONVENTIONAL PLAN SHEET SYMB

BOUNDARIES AND PROPERTY:

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HYDROLOGY:

Stream or Body of Water	
Hydro, Pool or Reservoir	
Jurisdictional Stream	
River Basin Buffer	
Flow Arrow	
Disappearing Stream	->
Spring	· · · · · · · · · · · · · · · · · · ·
Swamp Marsh	
Proposed Lateral, Tail, Head Ditch	\rightarrow
False Sump	\diamond

RAILROADS:	
Standard Gauge	CSX TRANSPORTATION
RR Signal Milepost	⊙ MILEPOST 35
Switch	SWITCH
RR Abandoned	
RR Dismantled	
RIGHT OF WAY:	
Baseline Control Point	
Existing Right of Way Marker	\bigtriangleup
Existing Right of Way Line	
Proposed Right of Way Line	
Proposed Right of Way Line with Iron Pin and Cap Marker	
Proposed Right of Way Line with Concrete or Granite Marker	
Existing Control of Access	
Proposed Control of Access	
Existing Easement Line	——— E ——— —
Proposed Temporary Construction Easement -	E
Proposed Temporary Drainage Easement	TDE
Proposed Permanent Drainage Easement	PDE
Proposed Permanent Utility Easement	PUE

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	
Existing Curb	
Proposed Slope Stakes Cut	<u>_</u>
Proposed Slope Stakes Fill	£
Proposed Wheel Chair Ramp	(RCB)
Curb Cut for Future Wheel Chair Ramp	CFB
Existing Metal Guardrail	ī
Proposed Guardrail	<u> </u>
Existing Cable Guiderail	<u> </u>
Proposed Cable Guiderail	<u> 0 0 0 0 0 </u>
Equality Symbol	lacksquare
Pavement Removal	
VEGETATION:	
Single Tree	~
Single Shrub	O
Hedge	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Woods Line	ഹാഹാഹാഹാഹാം

Vineyard -

EXISTING STRUCTURES: MAJOR:

MAJOR:	
Bridge, Tunnel or Box Culvert [CONC
Bridge Wing Wall, Head Wall and End Wall –) CONC WW
MINOR:	
Head and End Wall	CONC HW
Pipe Culvert	
Footbridge	
Drainage Box: Catch Basin, DI or JB	 cs
Paved Ditch Gutter	
Storm Sewer Manhole	٩
Storm Sewer	s

UTILITIES:

POWER:	
Existing Power Pole	•
Proposed Power Pole	6
Existing Joint Use Pole	-
Proposed Joint Use Pole	-0-
Power Manhole	®
Power Line Tower	\boxtimes
Power Transformer	Ø
U/G Power Cable Hand Hole	59
H-Frame Pole	••
Recorded U/G Power Line	P
Designated U/G Power Line (S.U.E.*)	+

TELEPHONE:

6 6 6

Vineyord

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_	
Existing Telephone Pole	
Proposed Telephone Pole	-0-
Telephone Manhole	Ð
Telephone Booth	٦
Telephone Pedestal	Ē
Telephone Cell Tower	,I ,
U/G Telephone Cable Hand Hole	5
Recorded U/G Telephone Cable	
Designated U/G Telephone Cable (S.U.E.*) –	
Recorded U/G Telephone Conduit	
Designated U/G Telephone Conduit (S.U.E.*)	te
Recorded U/G Fiber Optics Cable	
Designated U/G Fiber Optics Cable (S.U.E.*)	1 10

	MOJECT REFERENCE NO. SH B-4/74
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WATER:	
Water Manhole	®
Water Meter	—— o
Water Valve	
Water Hydrant	¢
Recorded U/G Water Line	······································
Designated U/G Water Line (S.U.E.*)-	_
Above Ground Water Line	
TV:	
TV Satellite Dish	K
TV Pedestal	D
TV Tower	⊗
U/G TV Cable Hand Hole	
Recorded U/G TV Cable	
Designated U/G TV Cable (S.U.E.*)	
Recorded U/G Fiber Optic Cable	
Designated U/G Fiber Optic Cable (S.	
GAS:	^
Gas valve	V
Gas Meler	A
Recorded U/G Gas Line	
Designated U/G Gas Line (S.U.E.*)-	A/G Gas
Above Ground Gas Line	
SANITARY SEWER:	
Sanitary Sewer Manhole	
Sanitary Sewer Cleanout	•
U/G Sanitary Sewer Line	
Above Ground Sanitary Sewer ——	
Recorded SS Forced Main Line Designated SS Forced Main Line (S.L	
MISCELLANEOUS:	
Utility Pole ————	
Utility Pole with Base	
Utility Located Object	O
Utility Traffic Signal Box	
Utility Unknown U/G Line ———	
U/G Tank; Water, Gas, Oil	
A/G Tank; Water, Gas, Oil	
U/G Test Hole (S.U.E.*)	••••
Abandoned According to Utility Record	rds — AATUR
End of Information	E.O.I.

	FINAL PAVEMENT SCHEDULE
C1	PROP. APPROX. 2½"ASPHALT CONCRETE SURFACE COURSE TYPE SF9.5A, At an average rate of 137.5 LBS. Per SQ. Yd. In each of two layers
C2	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, At an average rate of 110 LBS. Per SQ. yd. Per 1" depth to be Placed in layers not less than 1" in depth or greater Than 1.5" in depth.
E1	PROP. APPROX. 5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 570 LBS. PER SQ. YD.
E2	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5½" IN DEPTH.
R1	SHOULDER BERM GUTTER
Т	EARTH MATERIAL.
U	EXISTING PAVEMENT.
W	VARIABLE DEPTH WEDGING (SEE DETAIL THIS SHEET).

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.



TYPICAL SECTION ON STRUCTURE -L- STA 15+70+/- (BGN BRG) TO 16+55+/- (END BRG)

MAY-2006 II:29 Vroadway Proj Vb417 \$\$UISERNAMF\$\$\$\$



Detail Showing Method of Wedging







TYPICAL SECTION NO. 2 -L- STA 13+50 TO 15+70+/- (BGN BRG) -L- STA 16+55+/- (END BRG) TO 17+00



ORIGINAL GROUND







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