



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY
GOVERNOR

LYNDO TIPPETT
SECRETARY

February 10, 2006

MEMORANDUM TO: Mr. D. R. Conner, P.E.
Division One Engineer

FROM: Philip S. Harris, III, P.E. *PSH*
Natural Environment Unit Head
Project Development and
Environmental Analysis Branch

SUBJECT: Hyde County, Replace Bridge No.32 on US 265 over Rose Bay
Canal; T.I.P. Number B-3349; Federal Aid Project BRSTP-264
(1); State Project 8.1080701

Attached is the U. S. Army Corps of Engineers Individual 404 Permit Number, the general conditions for the DWQ 401 Water Quality Certification and CAMA permit from Division Coastal Management for the above referenced project. All environmental permits have been received for the construction of this project.

PSH/gyb

Attachment

cc: Mr. Art McMillan, P.E.
Mr. Jay Bennett, P.E.
Mr. David Chang, P.E.
Mr. Randy Garris, P.E.
Mr. Greg Perfetti, P.E.
Mr. Mark Staley
Mr. Omar Sultan
Mr. John F. Sullivan, FHWA
Mr. Clay Willis, Division 1 DEO

MAILING ADDRESS:
NC DEPARTMENT OF TRANSPORTATION
PROJECT DEVELOPMENT AND ENVIRONMENTAL ANALYSIS
1598 MAIL SERVICE CENTER
RALEIGH NC 27699-1598

TELEPHONE: 919-733-3141
FAX: 919-733-9794
WEBSITE: WWW.DOT.ORG

LOCATION:
TRANSPORTATION BUILDING
1 SOUTH WILMINGTON STREET
RALEIGH NC

Underwood



IN REPLY REFER TO

**DEPARTMENT OF THE ARMY
WILMINGTON DISTRICT, CORPS OF ENGINEERS**

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

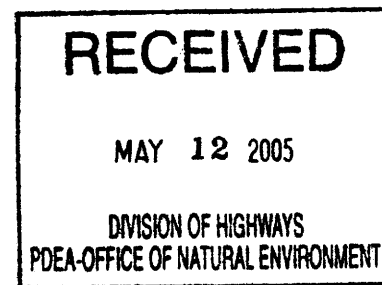
May 9, 2005



Regulatory Division

Subject: Action ID No. 200411264 and Nationwide Permit No. 23 (Approved Categorical Exclusions)

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, dated March 30, 2000, your addendum to Categorical Exclusion Document dated August 30, 2002, and your subsequent correspondence dated February 16, 2005, and February 24, 2005, for the replacement of Bridge No. 32 over Rose Bay Creek, Federal Aid Project No. BRSTP-264 (11), State Project No. 8.1080701, T.I.P. No. B-3349, Hyde County, North Carolina. The stated purpose of the project is to replace the currently obsolete and structurally deficient bridge with a new and safer bridge. The preferred alternative involves staged, simultaneous construction and will adversely impact 0.069 acres of wetlands and .30 acres of open waters adjacent to U.S. Highway 264 and Rose Bay Canal.

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 adversely impact 0.069 acres of coastal marsh and 0.30 acres of surface waters. The coastal wetland impacts are from excavation for the relocation of the open water canal.

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

a. The North Carolina Department of Transportation (NCDOT) will mitigate the project impacts at a ratio of 1:1 by debiting 0.069 acres of the remaining 0.38 acres of restored wetlands associated with the causeway removal and bridge replacement at Bridge No. 52 and 54 (TIP No. B-3348, Federal Aid Project BRSTP-264 (9), State Project No. 8.1080601, Action I.D. # 200411262) on Wallace Canal and Kitty Creek on U.S. Highway 264 in Hyde County.

b. The wetland restoration will be undertaken pursuant to NCDOT's February 23, 2004, bridge replacement application cover letter for TIP No. B-3348, page 2, avoidance and minimization section. According to that letter, approximately 95 feet of former causeway will be restored to adjacent wetland elevation and be replanted with native brackish marsh plants. Site success will be evaluated to assess whether at least 75% of the area is covered with the following target species: black needlerush (*Juncus roemerianus*), salt meadow cordgrass (*Spartina patens*), and giant cordgrass (*Spartina cynosuroides*) at the end of the fifth growing season. The restoration area will be photo-documented immediately prior to planting, upon completion of the initial planting and any required replanting operations. NCDOT will provide an as-built plan to USACE, including corner stake GPS coordinates, documented qualities of plant materials, final elevations, and photo documentation within 45 days of completion of work. The mitigation will be commenced within the first growing season immediately after the construction of TIP No. 3348 has been completed. NCDOT will be responsible for monitoring the area for a period of 5 years. Site conditions will be assessed at the end of each growing season during the 5-year monitoring period. NCDOT will provide an annual monitoring report by December 1 of each year documenting success, including: photo documentation, and problems, if any, encountered during the monitoring year timeframe. If at the end of the third replanting or at the end of the fifth and final year of monitoring, the success criteria is not met, a re-evaluation of the site will be made by NCDOT and USACE to determine a course of action to meet the permit requirements for this permit. The Wilmington District, U.S. Army Corps of Engineers, Regulatory Division; must approve any deviation from this schedule.

c. NCDOT shall survey the acreage utilized from the above restoration site and provide the Corps of Engineers, Washington Field Office, with a copy of the survey. The permittee shall maintain the acreage in its described success condition in perpetuity.

d. To avoid adverse impacts to spawning populations of fish, anadromous and resident species at the project site, NCDOT will follow the "Stream Crossing Guidelines for Anadromous Fish Passage."

e. To minimize negative effects on the early stage of development of the marine organisms found in the Primary Nursery Area, no in-water work will be conducted between March 1 and September 30 of any year. For the purpose of this moratorium, in water is defined as those areas that are inundated at mean high water.

f. To protect the West Indian Manatee, NCDOT will follow the “Guidelines for Avoiding Impacts to the West Indian Manatee, Precautionary Measures for Construction Activities in North Carolina Waters,” prepared by the U.S. Fish and Wildlife Service. A copy of these guidelines is attached to the permit conditions.

g. Bridge deck drains will not discharge directly into Rose Bay Canal.

h. 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.

i. The temporary placement or double handling of excavated or fill materials within waters or vegetated wetlands are not authorized.

j. 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.

k. The fill material will be clean and free of any pollutants except in trace quantities. Metal products, organic materials, or unsightly debris will not be used.

l. All measures will be taken to avoid any temporary fill from entering into Rose Bay Canal 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.

m. 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.

n. 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 (m) 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 (m). 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.

o. 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.

p. 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.

q. Failure to institute and carry out the details of special conditions a. - p., above, may result in a directive to cease all ongoing and permitted work within waters and/or wetlands associated with TIP No. B-3349, 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 will be valid for two years from the date of this letter unless the nationwide authorization is modified, reissued or revoked.

Thank you for your time and cooperation. Questions or comments may be addressed to Mr. Bill Biddlecome, Washington Regulatory Field Office, Post Office Box 1000, Washington, North Carolina, 27889, or telephone 252-975-1616, extension 31.

Sincerely,



William J. Biddlecome
NCDOT, Project Manager

Enclosures

Copies Furnished (without enclosures)

Ms. Nicole Thomson
Water Quality Section
Central Office
Division of Environmental Management
North Carolina Department of Environment
and Natural Resources
2321 Crabtree Blvd., Suite 250
Raleigh, North Carolina 27604

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
Raleigh Office
310 New Bern Avenue, Room 206
Raleigh, North Carolina 27601

Ms. Cathy Brittingham
Division of Coastal Management
1638 Mail Service Center
Raleigh, North Carolina 27699-1638

Ms. Lynn Mathis
Division of Coastal Management
1367 U.S. Highway 17 South
Elizabeth City, North Carolina 27909

Action ID Number: 200411264

County: Hyde

Permittee: NCDOT

Date Permit Issued: May 9, 2005

Project Manager: Biddlecome

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:

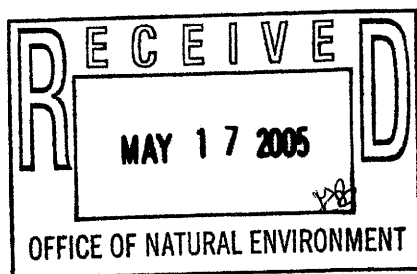
US ARMY CORPS OF ENGINEERS
WILMINGTON DISTRICT
WASHINGTON REGULATORY FIELD OFFICE
P.O. BOX 1000
WASHINGTON, NORTH CAROLINA 27889

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



Permit Class
NEW

Permit Number
110-05

STATE OF NORTH CAROLINA
Department of Environment and Natural Resources
and
Coastal Resources Commission

Permit

for

Major Development in an Area of Environmental Concern
pursuant to NCGS 113A-118

Excavation and/or filling pursuant to NCGS 113-229

Issued to N.C. Department of Transportation, 1548 Mail Service Center, Raleigh, NC 27699-1548

Authorizing development in Hyde County at Rose Bay Canal, Bridge No. 32 along US 264, as requested in the permittee's application dated 2/16/05, including the attached workplan drawings as referenced in Condition No. 1 of this permit.

This permit, issued on 7/22/05, is subject to compliance with the application (where consistent with the permit), all applicable regulations, special conditions and notes set forth below. Any violation of these terms may be subject to fines, imprisonment or civil action; or may cause the permit to be null and void.

TIP No. B-3349, Bridge Replacement

- 1) All work authorized by this permit shall be carried out in accordance with the following workplan drawings, except as modified herein:

8 1/2" x 11" drawings: Sheets 6, 7 and 8 of 10 (dated revised 8/19/04)

11" x 17" drawings: Sheet 4, 4, 4A and 5 (dated revised 2/23/05); Sheet 2 and 5 (dated revised 2/1/05); Sheet X-2, X-3, X-4 and X-5 (dated revised 2/1/05); and Sheet UO-2 (dated revised 2/26/04)

11" x 17" buffer impact drawings: Sheet 4, 5 and 6 (dated revised 2/1/05)

(See attached sheets for Additional Conditions)

This permit action may be appealed by the permittee or other qualified persons within twenty (20) days of the issuing date. An appeal requires resolution prior to work initiation or continuance as the case may be.

This permit must be accessible on-site to Department personnel when the project is inspected for compliance.

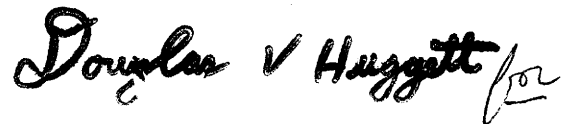
Any maintenance work or project modification not covered hereunder requires further Division approval.

All work must cease when the permit expires on

No expiration date, pursuant to GS 136-44.7B

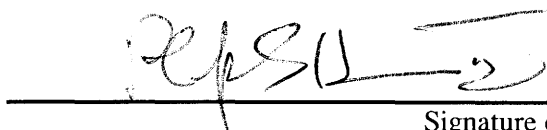
In issuing this permit, the State of North Carolina agrees that your project is consistent with the North Carolina Coastal Management Program.

Signed by the authority of the Secretary of DENR and the Chairman of the Coastal Resources Commission.



Charles S. Jones, Director
Division of Coastal Management

This permit and its conditions are hereby accepted.



Signature of Permittee

ADDITIONAL CONDITIONS

- 2) In order to protect juvenile and anadromous fish populations, no in-water work shall be conducted from March 1st to September 30th of any year without prior approval of the N.C. Division of Coastal Management (DCM), in consultation with the N.C. Division of Marine Fisheries and the N.C. Wildlife Resources Commission. For the purposes of this moratorium, in-water is defined as those areas that are inundated at normal water level.
- 3) The permittee shall implement the N.C. Department of Transportation's (NCDOT's) Stream Crossing Guidelines for Anadromous Fish Passage, except as modified in Condition No. 2 of this permit.
- 4) The steel sheet pile shall be driven into place. Should any other type of installation become necessary, additional authorization from DCM shall be required.
- 5) In accordance with the attached 11 x 17 workplan drawings, rock embankments shall be constructed at a 1.5:1 slope and vegetated fill slopes shall be constructed with a 2:1 slope.
- 6) The bridge shall be constructed using staged construction methodologies. Any other method may require additional authorization from DCM.
- 7) The pile installation practice shall be accomplished using a vibratory hammer. Should any other type of pile installation, such as jetting or drilled shaft construction, become necessary, additional authorization from the N.C. Division of Coastal Management shall be required.
- 8) This project shall comply with the Design Standards in Sensitive Watersheds, 15A NCAC 4B .0124.
- 9) Except for the end bents of the existing bridge, pilings from the existing bridge, as well as any remnant pilings from previous bridges, shall be removed in their entirety. In the event that a piling breaks during removal and cannot be removed in its entirety, the piling may be cut off flush with the bed of the water body only if prior approval is received from DCM.
- 10) The existing bridge and bridge approach shall be used for construction access. Use of mats for construction access across wetlands is not authorized unless additional authorization from DCM is first obtained.
- 11) The N.C. Department of Transportation's (NCDOT's) document "Best Management Practices for Bridge Demolition and Removal" (final 9/20/99) shall be followed during both demolition and construction activities.
- 12) Debris from the existing bridge, including deck components, roadway asphalt and associated materials, shall not enter wetlands or waters of the State, even temporarily.
- 13) All materials and debris associated with the removal and/or construction of the existing and/or new bridge, roadway asphalt and associated materials shall be disposed of on an approved upland site.

ADDITIONAL CONDITIONS

- 14) Turbidity curtains and silt fences shall be used to contain all bottom disturbing activities within Rose Bay Canal and the connecting channels, including pile or casement installation, placement of riprap, filling within the waters and adjacent wetlands. Turbidity curtains shall isolate the work areas within the waters from the undisturbed areas within the waters and shall run generally parallel to the banks of the waters. The ends of the turbidity curtains shall be attached to the silt fences located at the boundaries of the construction limits. Turbidity curtains shall not fully extend across the canal. The turbidity curtains are to be properly maintained and retained in the water until construction is complete and turbidity within the curtains reaches ambient levels.
- 15) No mechanized or hand clearing or other temporary impacts to wetlands or waters of the State are authorized by this permit without prior approval from DCM.
- 16) No excavation shall take place at any time in any vegetated wetlands or surrounding waters outside of the alignment of the area(s) indicated on the attached workplan drawing(s).
- 17) All excavated materials shall be confined above normal water level and landward of regularly or irregularly flooded wetlands behind adequate dikes or other retaining structures to prevent spillover of solids into any wetlands or surrounding waters.
- 18) The temporary placement or double handling of excavated or fill materials within waters or vegetated wetlands is not authorized.
- 19) The placement of riprap shall be limited to the areas as depicted on the attached workplan drawings. The riprap material shall be free from loose dirt or any pollutant. It shall be of a size sufficient to prevent its movement from the authorized alignment by wave or current action. The riprap material shall consist of clean rock or masonry materials such as but not limited to granite, marl or broken concrete.
- 20) Live concrete shall not be allowed to contact the water in or entering into Rose Bay Canal.
- 21) No excavated or fill material shall be placed at any time in any vegetated wetlands or surrounding waters outside of the alignment of the fill area(s) indicated on the attached workplan drawing(s).
- 22) All excavated materials shall be confined above normal water level and landward of regularly or irregularly flooded wetlands behind adequate dikes or other retaining structures to prevent spillover of solids into any wetlands or surrounding waters.
- 23) All fill material shall be clean and free of any pollutants, except in trace quantities.
- 24) The permittee shall exercise all available precautions in the day-to-day operation of the facility to prevent waste from entering the adjacent waters.
- 25) The minimum vertical navigational clearance under the bridge shall be increased to approximately four feet.
- 26) Construction staging areas shall only be located in uplands, and not in wetlands or waters of the State.

ADDITIONAL CONDITIONS

Roadside Canal Relocation and Fill

- 27) Upon project completion, the roadside canals shall be between approximately 10 feet and 25 feet wide, as depicted on the attached workplan drawings.
- 28) The depth of the roadside canals upon project completion shall approximate the depth of the immediately adjacent roadside canals that are to be filled.
- 29) Adequate measures shall be taken to prevent short-term and long-term erosion of the side slopes of the relocated canals.

Utility Relocation

NOTE: The relocation of water lines within the project area by the Hyde County Water Department was authorized by a CAMA General Permit in March 2004.

- 30) Any relocation of utility lines that is not specifically depicted on the attached workplan drawing(s), or described within the attached permit application, shall require additional approval by DCM, either under the authority of this permit, or by the utility company obtaining separate authorization.
- 31) The utility relocations shall not result in any permanent or temporary impacts to wetlands or waters of the State without permit modification.

Sedimentation and Erosion Control

- 32) The permittee shall follow Best Management Practices for the protection of Surface Waters and sedimentation and erosion control measures sufficient to protect aquatic resources.
- 33) This project shall conform to all requirements of the NC Sedimentation Pollution Control Act and NC DOT's Memorandum of Agreement with the Division of Land Resources.
- 34) Appropriate sedimentation and erosion control devices, measures or structures shall be implemented to ensure that eroded materials do not enter adjacent wetlands, watercourses and property (e.g. silt fence, diversion swales or berms, etc.).
- 35) In order to protect water quality, runoff from construction shall not visibly increase the amount of suspended sediments in adjacent waters.
- 36) The permitted activity shall be conducted in such a manner as to prevent a significant increase in turbidity outside of the area of construction or construction-related discharge. Increases such that the turbidity in the waterbody is 25 NTU's or less in all saltwater classes is not considered significant.

Mitigation

NOTE: This project will permanently impact approximately 3,006 square feet (0.069 acres) of coastal wetlands and approximately 13,068 square feet (0.30 acres) of shallow water bottom.

ADDITIONAL CONDITIONS

- 37) In accordance with commitments made by the permittee, 0.069 acres of wetland restoration credits shall be debited at a 1:1 ratio from the mitigation that shall be generated in association with TIP No. B-3348, Replacement of Bridge No. 52 over Wallace Canal and Bridge No. 54 over Kitty Creek on US 264, Hyde County. Construction of TIP No. B-3348 was authorized by CAMA Permit No. 100-04 on 7/9/04.

NOTE: CAMA Permit No. 100-04 contains the following note on page 4: "If the excess mitigation generated by this project is to be used as mitigation for impacts of future projects, written concurrence must be obtained from DCM that post-construction monitoring demonstrates that vegetative and hydrologic success criteria have been met. Vegetative and hydrologic monitoring data shall be made available to DCM at such time as the site is proposed for use as mitigation for future projects." However, during pre-application coordination meetings, it was agreed that the excess mitigation generated by TIP No. B-3348 would be used as mitigation for this project.

- 38) In order to minimize the amount of time that elapses between when wetland impacts are incurred and when the wetland mitigation achieves its success criteria, construction of the proposed wetland mitigation site shall occur prior to, or concurrent with, construction of the activities authorized by this permit.
- 39) The permittee shall provide an annual update on the wetland restoration areas for this project. This annual update shall consist of photographs and a brief report on the progress of restoration areas in reattaining wetland jurisdictional status. Three years after project completion, the permittee shall schedule an agency field meeting with DCM, the N.C. Division of Water Quality, and the N.C. Wildlife Resources Commission to determine if the restoration areas have re-attained jurisdictional wetland status and/or if additional remedial actions are necessary.

General

- 40) No attempt shall be made by the permittee to prevent the full and free use by the public of all navigable waters at or adjacent to the authorized work.
- 41) The authorized activity shall not cause an unacceptable interference with navigation.
- 42) Unless specifically altered herein, any mitigative measures or environmental commitments made by the permittee in the Coastal Area Management Act application, the Categorical Exclusion document dated April 2000, the addendum to the Categorical Exclusion document dated August 30, 2002, shall be implemented, regardless of whether or not such commitments are addressed by individual conditions of this permit.
- 43) If it is determined that additional permanent and/or temporary impacts (such as but not limited to temporary access roads, detours, or matting to transport equipment across wetlands) are necessary that are not shown on the attached workplan drawing(s), a permit modification and/or additional authorization from the N.C. Division of Coastal Management (DCM) shall be required. In addition, any changes in the approved plan may also require a permit modification and/or additional authorization from DCM. The permittee shall contact a representative of DCM prior to commencement of any such activity for this determination and any permit modification.

ADDITIONAL CONDITIONS

- 44) Development authorized by this permit shall only be conducted within N.C. Department of Transportation Right-of-Ways and easements.
- 45) The N.C. Division of Water Quality (DWQ) has authorized the proposed project under a General Water Quality Certification and Riparian Buffer Authorization (DWQ Project No. 04-0374), which was issued on 3/4/04. Any violation of the Certification and Authorization approved by DWQ shall be considered a violation of this CAMA permit.
- 46) The N.C. Division of Water Quality approved this project under stormwater management rules of the Environmental Management Commission under Stormwater Permit No. SW7020603 on 7/25/02. Any violation of the permit approved by the DWQ shall be considered a violation of this Coastal Area Management Act (CAMA) permit.

NOTE: The U.S. Army Corps of Engineers authorized the proposed project under Nationwide Permit Number 23 (COE Action ID No. 200411264), which was issued on 5/9/05.

NOTE: This permit does not eliminate the need to obtain any additional permits, approvals or authorizations that may be required.



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

Wetlands

March 8, 2005

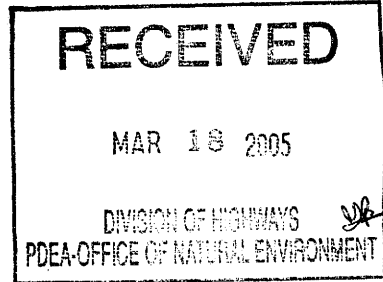
Hyde County

DWQ Project No. 040374

TIP No. B-3349

MODIFICATION of 401 Water Quality Certification and TAR-PAMLICO RIVER RIPARIAN BUFFER AUTHORIZATION

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



Dear Dr. Thorpe:

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

Permanent Wetland Fill (ac)	Wetland Excavation (ac)	Permanent Fill in Surface Water (ac)	Riparian Buffer Impact (sq. ft.)
0.009	0.06	0.30	15,682 (15,682 Zone 1 + 0 Zone 2)

This authorization is valid only for work performed in conjunction with replacing Bridge No. 32 over Rose Bay Creek on US 264 in Hyde County. The project shall be constructed in accordance with your modified application dated received February 18, 2005 and subsequent revised plans dated received February 28, 2005. After reviewing your application, we have decided that these impacts are covered by General Water Quality Certification Number 3403. This certification corresponds to the Nationwide Permit 23 issued by the Corps of Engineers. This approval is also valid for the Tar-Pamlico River Buffer Rules (15A NCAC 2B .0259). 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, unless otherwise specified in the Water Quality Certification.

This approval is valid solely for the purpose and design described in your applications dated February 18, 2005 and February 28, 2005 (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 of total impacts to streams (now or in the future) exceed 150 linear feet, compensatory mitigation may be required as described in 15A NCAC 2H .0506 (h) (6) and (7). For this approval to remain valid, you must adhere to the conditions listed in the attached certification.

- 1.) Upon completion of the project, the NCDOT shall complete and return the enclosed "Certification of Completion Form" to notify DWQ when all work included in the 401 Certification has been completed. The responsible party shall complete the attached form and return it to the 401/Wetlands Unit of the Division of Water Quality upon completion of the project.
- 2.) All stormwater runoff shall be directed to sheetflow through stream buffers at nonerosive velocities, unless approved otherwise by this certification.
- 3.) During the construction of the project, no staging of equipment of any kind is permitted in waters of the U.S., or protected riparian buffers.

- 4.) Riparian vegetation must be reestablished within the construction limits of the project by the end of the growing season following completion of construction.
- 5.) The dimension, pattern and profile of the stream above and below the crossing should not be modified by widening the stream channel or reducing the depth of the stream. Disturbed floodplains and streams should be restored to natural geomorphic conditions.
- 6.) Any riprap used must not interfere with thalweg performance and aquatic life passage during low flow conditions.
- 7.) 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.
- 8.) Discharging hydroseed mixtures and washing out hydroseeders and other equipment in or adjacent to surface waters is prohibited.
- 9.) The outside buffer, wetland or water boundary located within the construction corridor approved by this authorization shall be clearly marked by orange fabric fencing prior to any land disturbing activities. Impacts to areas within the fencing are prohibited unless otherwise authorized by this certification.
- 10.) There shall be no excavation from or waste disposal into jurisdictional wetlands or waters associated with this permit without appropriate modification of this permit. Should waste or borrow sites be located in wetlands or stream, compensatory mitigation will be required since it is a direct impact from road construction activities.
- 11.) Pursuant to NCAC15A 2B.0259(6), sediment and erosion control devices shall not be placed in Zone 1 of any Tar-Pamlico Buffer without prior approval by the NCDWQ. At this time, the NCDWQ has approved no sediment and erosion control devices in Zone 1. Sediment and erosion control devices shall be allowed in Zone 2 of the buffers provided that Zone 1 is not compromised and that discharge is released as diffuse flow.
- 12.) The post-construction removal of any temporary bridge structures will need to return the project site to its preconstruction contours and elevations. The revegetation of the impacted areas with appropriate native species may also be necessary.
- 13.) When the old bridge is removed, no discharge of bridge material into surface waters is preferred. Strict adherence to the Corps of Engineers guidelines for bridge demolition will be a condition of the 401 Water Quality Certification.
- 14.) No live or fresh concrete shall come into contact with waters of the state until the concrete has hardened.
- 15.) Heavy equipment must be operated from the banks rather than in the stream channel in order to minimize sedimentation and reduce the likelihood of introducing other pollutants into the stream.
- 16.) The presence of equipment in the channels must be minimized. Under no circumstances must rock, sand or other materials be dredged from the wetted stream channel under authorization of this permit, except in the immediate vicinity of the culverts.
- 17.) All work shall be performed during low or normal flow conditions.
- 18.) 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.
- 19.) Compensatory mitigation for impacts to 0.069 acres of coastal wetlands shall be done. Applying a replacement ratio of 1:1, total mitigation for 0.069 acres of coastal wetlands shall be provided as described below:

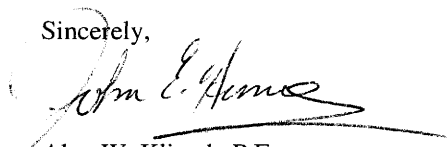
Mitigation Site	Acres of WL Debited from Site	Type of Mitigation	Replacement Ratio	Acres of Mitigation Credited
Restored coastal wetlands from B-3348 in Hyde Co.	0.069	Restoration	1:1	0.069

- 20.) All protected riparian buffers impacted by the placement of temporary fill or clearing activities shall be restored to the preconstruction contours and revegetated with native woody species upon completion of the project construction. A post-construction as-built with the restoration activities included shall be submitted to the DWQ no later than 60 days after the project is closed out by the Department of Transportation.
- 21.) The NCDOT will need to adhere to all appropriate in-water work moratoriums (including the use of pile driving or vibration techniques) prescribed by the NC Wildlife Resources Commission, the US Fish and Wildlife Service, and National Marine Fisheries Service.
- 22.) No in-water work is permitted between March 1 and September 30 of any year, without prior approval from the NC Division of Water Quality and the NC Wildlife Resources Commission. In addition, NCDOT shall conform with the NCDOT policy entitled "Stream Crossing Guidelines for Anadromous Fish Passage (May 12, 1997) at all times.
- 23.) All fill slopes located in jurisdictional wetlands shall be placed at slopes no flatter than 3:1.

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 Nicole Thomson at 919-715-3415.

Sincerely,



Alan W. Klimek, P.E.

Attachment

cc: Wilmington District US Army Corps of Engineers
 Mr. Bill Biddlecome, US Army Corps of Engineers, Washington Field Office
 Mr. Anthony W. Roper, PE, Division 1 Engineer, 113 Airport Dr., Suite 100, Edenton, NC 27932
 Mr. Clay Willis, Division 1 Environmental Officer, 113 Airport Dr., Suite 100, Edenton, NC 27932
 NCDWQ Washington Regional Office
 File Copy
 Central Files



DWQ Project No.: _____ **County:** _____

Applicant: _____

Project Name: _____

Date of Issuance of 401 Water Quality Certification: _____

Certificate of Completion

Upon completion of all work approved within the 401 Water Quality Certification or applicable Buffer Rules, and any subsequent modifications, the applicant is required to return this certificate to the 401/Wetlands Unit, North Carolina Division of Water Quality, 1621 Mail Service Center, Raleigh, NC, 27699-1621. This form may be returned to DWQ by the applicant, the applicant's authorized agent, or the project engineer. It is not necessary to send certificates from all of these.

Applicant's Certification

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

Signature: _____ Date: _____

Agent's Certification

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

Signature: _____ Date: _____

Engineer's Certification

_____ Partial _____ Final

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

Signature _____ Registration No. _____

Date _____

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:

1. 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

WQC #3403

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;
7. 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.

WQC #3403

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: 28 March 2003

DIVISION OF WATER QUALITY

By

A handwritten signature in cursive script that reads "Alan Klimek".

Alan W. Klimek, P.E.

Director

WQC # 3403

PROJECT COMMITMENTS

Hyde County
Bridge No. 32 on US 264
Over Rose Bay Canal
Federal Aid Project BRSTP-264(11)
State Project 8.1080701
TIP No. B-3349

In addition to the standard Nationwide Permit #23 Conditions, the General Nationwide Permit Conditions, Section 404 Only Conditions, Regional Conditions, State Consistency Conditions, NCDOT's Guidelines for Best Management Practices for Bridge Demolition and Removal, NCDOT's Guidelines for Best Management Practices for the Protection of Surface Waters, General Certification Conditions, and the Section 401 Conditions of Certification, the following Special Commitments have been agreed to by NCDOT:

Commitments Developed During Project Planning

Division 1 Construction

In order to minimize negative effects on the early stage development of the marine organisms found in the Primary Nursery Area, an in-stream work moratorium will be in effect between March 1 and September 30.

The bridge shall be constructed using staged construction methodologies.

Commitments Developed During Permitting

Division 1 Construction

In order to protect juvenile and anadromous fish populations, no in-water work shall be conducted from March 1st to September 30th of any year without prior approval of the N.C. Division of Coastal Management (DCM), in consultation with the N.C. Division of Marine Fisheries and the N.C. Wildlife Resources Commission. For the purposes of this moratorium, in-water is defined as those areas that are inundated at normal water level.

The permittee shall implement the N.C. Department of Transportation's (NCDOT's) Stream Crossing Guidelines for Anadromous Fish Passage, except as modified in Condition No.2 of this permit.

Turbidity curtains and silt fences shall be used to contain all bottom disturbing activities within Rose Bay Canal and the connecting channels, including pile or casement installation, placement of riprap, filling within the waters and adjacent wetlands. Turbidity curtains shall isolate the work areas within the waters from the undisturbed areas within the waters and shall run generally parallel to the banks of the waters. The ends of the turbidity curtains shall be attached to the silt fences located at the boundaries of the construction limits. Turbidity curtains shall not fully extend across the canal. The turbidity curtains are to be properly maintained and retained in the water until construction is complete and turbidity within the curtains reaches ambient levels.

Debris from the existing bridge, including deck components, roadway asphalt and associated materials, shall not enter wetlands or waters of the State, even temporarily.

Live concrete shall not be allowed to contact the water in or entering into Rose Bay Canal.

The pile installation practice shall be accomplished by pile driving. Should any other type of pile installation, such as jetting or drilled shaft construction, become necessary, additional authorization from the N.C. Division of Coastal Management shall be required.

Construction staging areas shall only be located in uplands, and not in wetlands or waters of the State.

The permittee shall exercise all available precautions in the day-to-day operation of the facility to prevent waste from entering the adjacent waters.

No excavation shall take place at any time in any vegetated wetlands or surrounding waters outside of the alignment of the area(s) indicated on the attached workplan drawing(s).

Upon project completion, the roadside canals shall be between approximately 10 feet and 25 feet wide, as depicted on the attached workplan drawings.

The steel sheet pile shall be driven into place. Should any other type of installation become necessary, additional authorization from DCM shall be required.

In accordance with the attached 11 x 17 workplan drawings, rock embankments shall be constructed at a 1.5: 1 slope and vegetated fill slopes shall be constructed with a 2: 1 slope.

Pilings from the existing bridge, as well as any remnant pilings from previous bridges, shall be removed in their entirety. End bents from the existing bridge shall be partially removed. In the event that a piling breaks during removal and cannot be removed in its entirety, the piling may be cut off flush with the bed of the water body only if prior approval is received from DCM.

The existing bridge and bridge approach shall be used for construction access. Use of mats for construction access across wetlands is not authorized unless additional authorization from DCM is first obtained.

The N.C. Department of Transportation's (NCDOT's) document "Best Management Practices for Bridge Demolition and Removal" (final 9/20/99) shall be followed during both demolition and construction activities.

Roadside Environmental Unit

This project shall comply with the Design Standards in Sensitive Watersheds, 15A NCAC 4B .0124.



North Carolina Department of Environment and Natural Resources
Division of Coastal Management

Michael F. Easley, Governor

Charles S. Jones, Director

William G. Ross Jr., Secretary

February 6, 2006

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

RE: Request for refinement of CAMA Major Development Permit No. 110-05 for the replacement of Bridge No. 32 along US 264 over Rose Bay Canal in Hyde County, TIP No. B-3349.

Dear Dr. Thorpe:

This letter is in response to the N.C. Department of Transportation's (NCDOT's) letter dated 11/23/05 requesting a **Letter of Refinement** for CAMA Major Permit No. 110-05. The N.C. Division of Coastal Management (DCM) received supplemental information in support of this request on 1/12/06.

Please be advised that through this Letter of Refinement, DCM conveys its determination that the requested changes as described below to Permit Conditions Number 7, 9, 13 and 25 are consistent with existing State rules and regulations and are in keeping with the original purpose and intent of CAMA Permit No. 110-05, with the following conditions:

1. Regarding Permit Condition No. 7. The pile installation practice shall be accomplished by pile driving. Should any other type of pile installation, such as jetting or drilled shaft construction, become necessary, additional authorization from the N.C. Division of Coastal Management shall be required.
2. Regarding Permit Condition No. 9. The permittee shall partially remove the end bents of the existing bridge.
3. Regarding Permit Condition No. 13. All materials and debris associated with the construction of the new bridge and associated materials shall be disposed of at an approved upland site or shall be recycled in an environmentally appropriate manner provided appropriate authorizations from any relevant state, federal, or local authorities are obtained.

1638 Mail Service Center, Raleigh, North Carolina 27699-1638
Phone: 919-733-2293 \ FAX: 919-733-1495 \ Internet: <http://dcm2.enr.state.nc.us>

4. Regarding Permit Condition No. 25. The minimum vertical navigational clearance under the new bridge shall be a minimum of approximately 3 feet, which is approximately the same as the minimum vertical navigational clearance under the existing bridge, as described in the attached revised CAMA MP-5 application form, and as depicted on the attached revised workplan drawings (2) dated 12/28/05.
5. This Letter of Refinement does not eliminate the need to obtain any additional state, federal or local permits, approvals or authorizations that may be required.
6. This Letter of Refinement shall be attached to the original of CAMA Permit No. 110-05, which was issued on 7/22/05, and both documents shall be readily available on site when a DCM representative inspects the project for compliance.
7. All conditions and stipulations of the active permit remain in force under this Letter of Refinement unless altered herein.

Please contact Cathy Brittingham at (919) 733-2293 x238 or Wanda Gooden at (252) 264-3901 if you have any questions or concerns.

Sincerely,



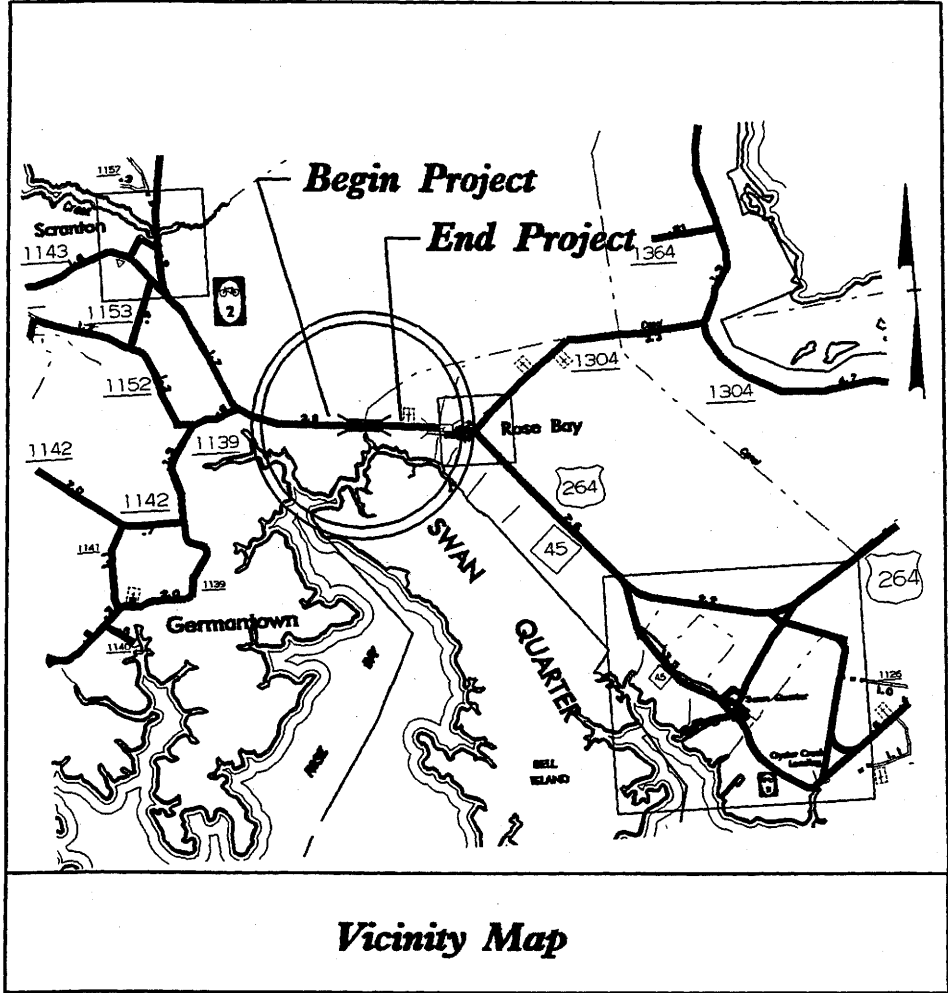
Doug Huggett
Major Permits and Consistency Coordinator

Cc: Chris Underwood, NCDOT
Wanda Gooden, DCM
Bill Biddlecome, USACE
Nikki Thomson, NCDWQ

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FEB 21 2005

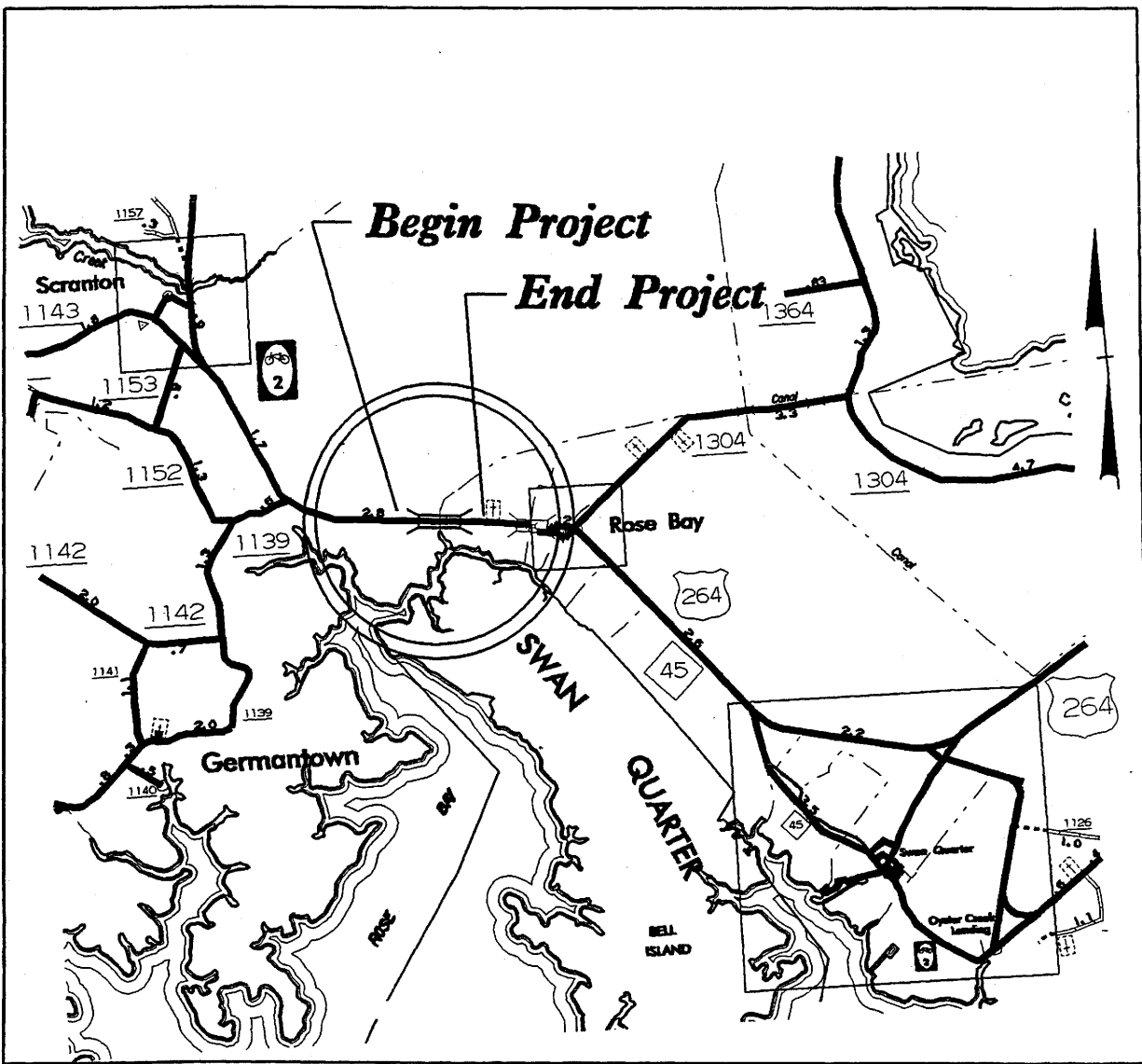
COASTAL MANAGEMENT
ELIZABETH CITY



Vicinity Map

VICINITY
MAPS

N. C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
HYDE COUNTY
PROJECT: 8.1080701 (B-3349)
REPLACEMENT OF BRIDGE NO.32
OVER ROSE BAY CREEK ON US264
SHEET 1 OF 10 REVISED 8/19/04



Site Map


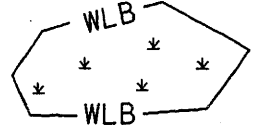

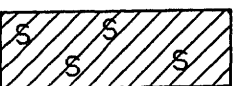
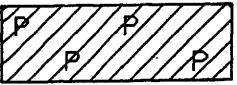

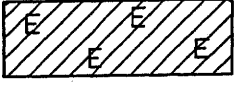
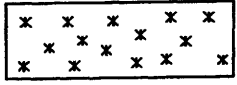

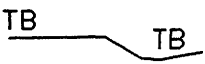
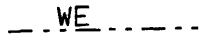
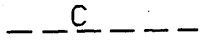
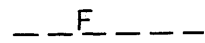


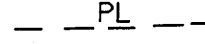
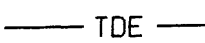

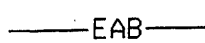
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MAPS**


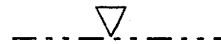
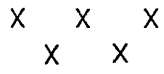



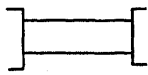
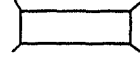


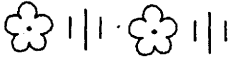

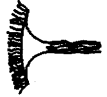

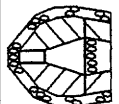
**N. C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
HYDE COUNTY
PROJECT: 8.1080701 (B-3349)**

**REPLACEMENT OF BRIDGE NO. 32
OVER ROSE BAY CREEK ON US 64**

SHEET 2 OF 10 REVISED 8/19/04

LEGEND

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

-  EPB — EPB
EXIST. ENDANGERED PLANT BOUNDARY
-  WATER SURFACE
-  X X X
X X
LIVE STAKES
-  BOULDER
-  CORE FIBER ROLLS
-  8
ADJACENT PROPERTY OWNER OR PARCEL NUMBER
-  PROPOSED BRIDGE
-  PROPOSED CULVERT
-  PROPOSED PIPE CULVERT
- (DASHED LINES DENOTE EXISTING STRUCTURES)
-  SINGLE TREE
-  Woods LINE
-  DRAINAGE INLET
-  ROOTWAD
-  RIP RAP
-  RIP RAP ENERGY DISSIPATOR BASIN

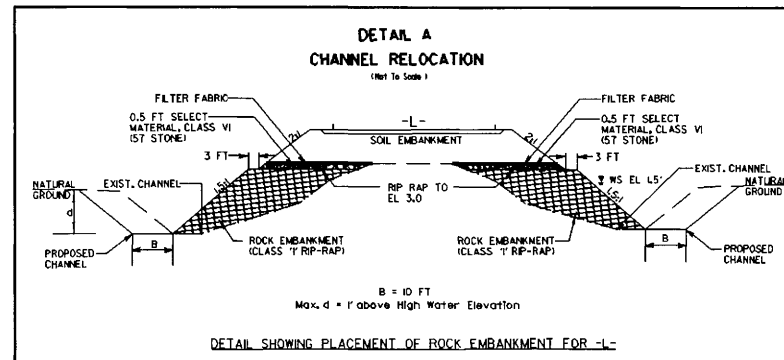
N. C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 HYDE COUNTY
 PROJECT:
 8.1080701 (B-3349)

7/2/99

REVISIONS

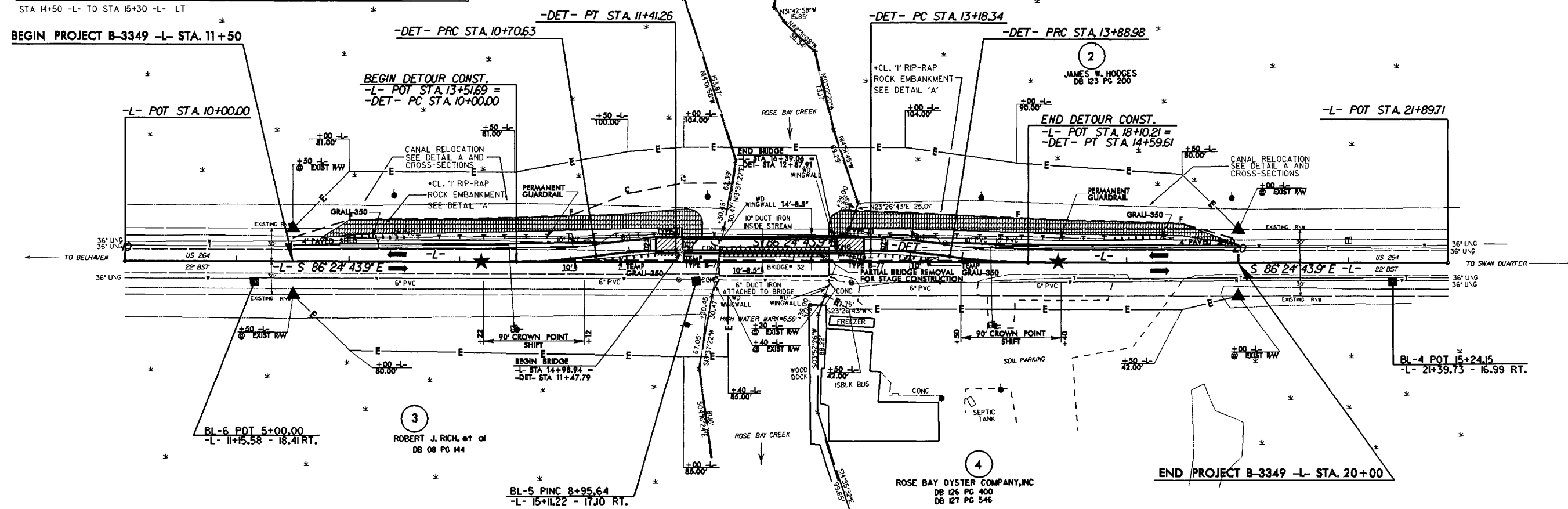
PROJECT REFERENCE NO.	SHEET NO.
B-3349	4A
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
	2-23-05 RCH
-DETOUR-	
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-DETOUR-			
PI Sta 10+35.38	PI Sta 11+06.02	PI Sta 13+53.73	PI Sta 14+24.36
$\Delta = 8' 42" 11.2' (LT)$	$\Delta = 8' 42" 11.2' (RT)$	$\Delta = 8' 42" 11.2' (RT)$	$\Delta = 8' 42" 11.2' (LT)$
D = 12' 19' 18.0"	D = 12' 19' 18.0"	D = 12' 19' 18.0"	D = 12' 19' 18.0"
L = 70.63'	L = 70.63'	L = 70.63'	L = 70.63'
T = 35.38'	T = 35.38'	T = 35.38'	T = 35.38'
R = 465.00'	R = 465.00'	R = 465.00'	R = 465.00'
SE = SEE PLANS	SE = SEE PLANS	SE = SEE PLANS	SE = SEE PLANS



STA 14+50 -L- TO STA 15+30 -L- LT

BEGIN PROJECT B-3349 -L- STA. 11+50



NOTE: THE DETOUR ALIGNMENT WILL USE THE PROJECTION OF THE -L- GRADE AT THE .025 SUPER RATE FOR THE DETOUR GRADE.

DESIGN EXCEPTION REQUIRED FOR -L- LINE SHOULDER WIDTH.

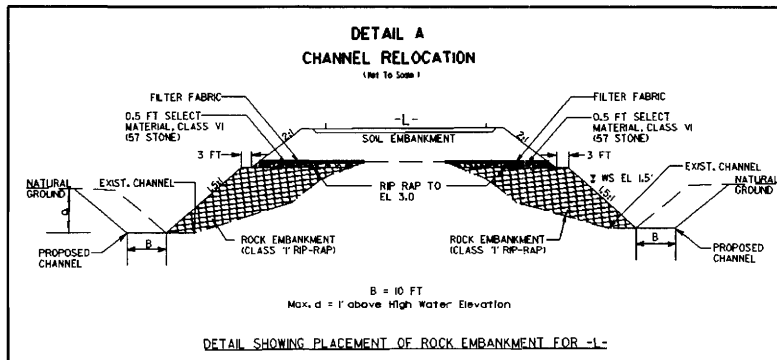
★ DENOTES SIGNAL REQUIRED FOR ONE LANE TWO-WAY DETOUR OPERATION SEE SHEETS TCP-1 THRU TCP-10 FOR DETOUR OPERATION SEE SHEETS S-1 THRU S-44 FOR STRUCTURE PLANS

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DWG: Gardner AT: RD212399

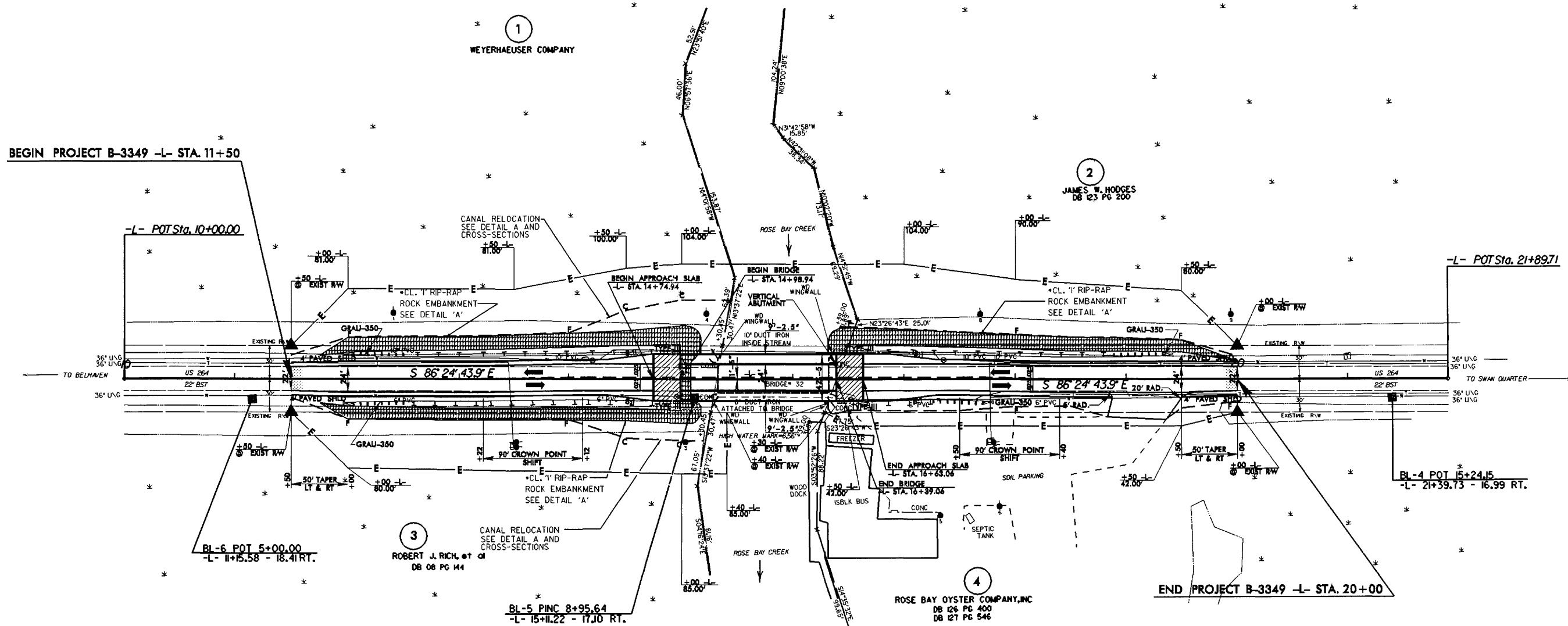
7/2/99

REVISIONS

PROJECT REFERENCE NO. B-3349		SHEET NO. 4	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
		2-23-05 RLH	
-L-			

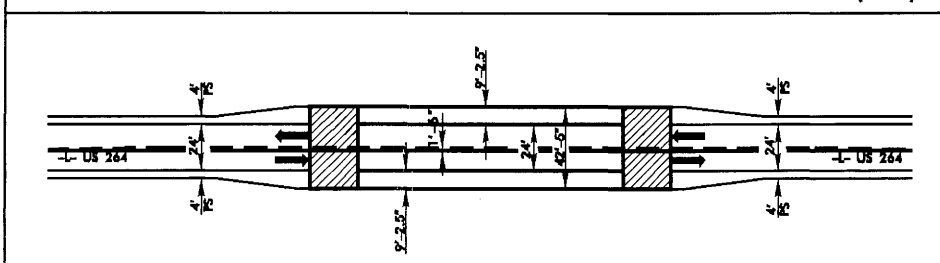


STA 14+50 -L- TO STA 15+30 -L- RT
 STA 14+50 -L- TO STA 15+30 -L- LT

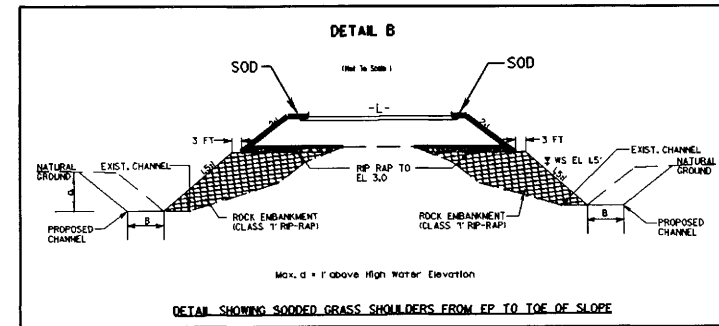


DATUM DESCRIPTION
 THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY MOSS FOR MONUMENT "DRILL" WITH NAD 83 STATE PLANE GRID COORDINATES OF NORTHING: 633232.67(11) EASTING: 277575.137(11) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.998791 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "DRILL" TO -L- POT STATION 11+50 IS N 86° 29' 52.32" W 3131.11 FT ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NGVD 29

SKETCH SHOWING PAVEMENT IN RELATIONSHIP TO STRUCTURE (NTS)



DESIGN EXCEPTION REQUIRED FOR -L- LINE SHOULDER WIDTHS.



STA 11+50 -L- TO STA 20+00 -L- RT & LT

NOTE: SEE SHEET 5 FOR -L- PROFILE
 SEE SHEETS S-1 THRU S-44 FOR STRUCTURE PLANS
 SEE SHEET 4A FOR DETOUR ALIGNMENT

23-FEB-2005 10:43
 D:\proj\16334\16334.dwg
 D:\barbier AT 10:21:23 99

7/2/99

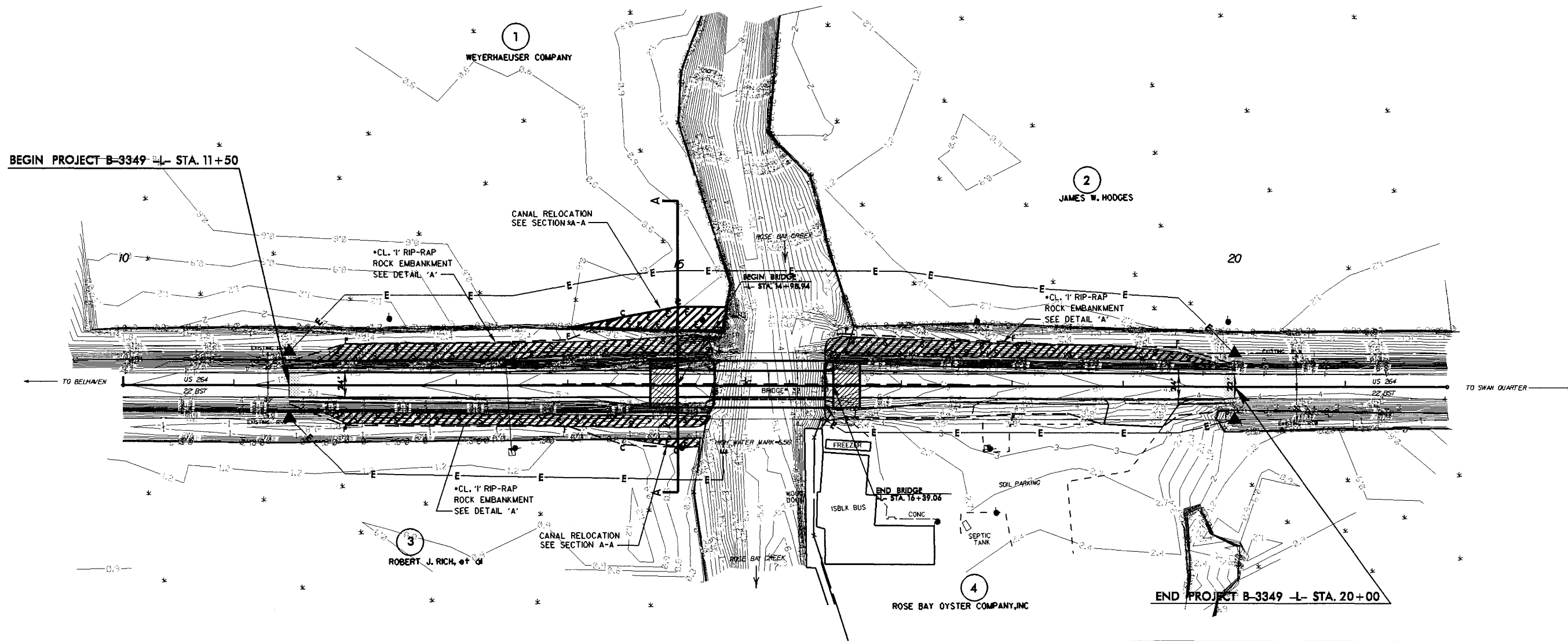
REVISIONS



REVISED 01/18/05

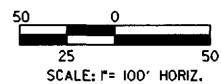


PROJECT REFERENCE NO. B-3349	SHEET NO. 05
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
	2-23-05 RCH
-L-	



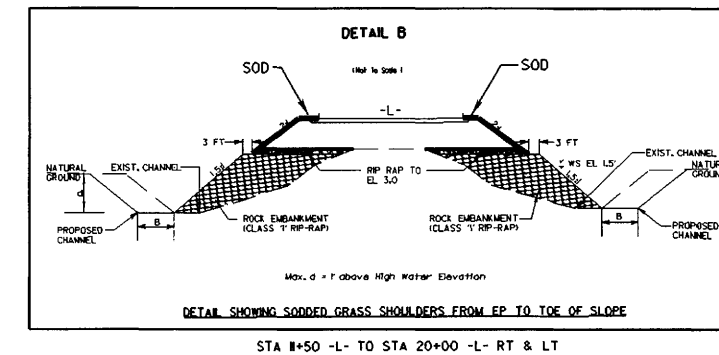
DENOTES FILL IN SURFACE WATER

DENOTES EXCAVATION IN WETLAND



REVISED 1/18/05

DESIGN EXCEPTION REQUIRED FOR -L- LINE SHOULDER WIDTHS.



NOTE: SEE SHEET 5 FOR -L- PROFILE
SEE SHEETS S-1 THRU S-44 FOR STRUCTURE PLANS
SEE SHEET 4A FOR DETOUR ALIGNMENT

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F:\hydr\allies\revised\cadd\B3349_hyd_dr.mxd
madamrnoo

7/2/99

REVISIONS

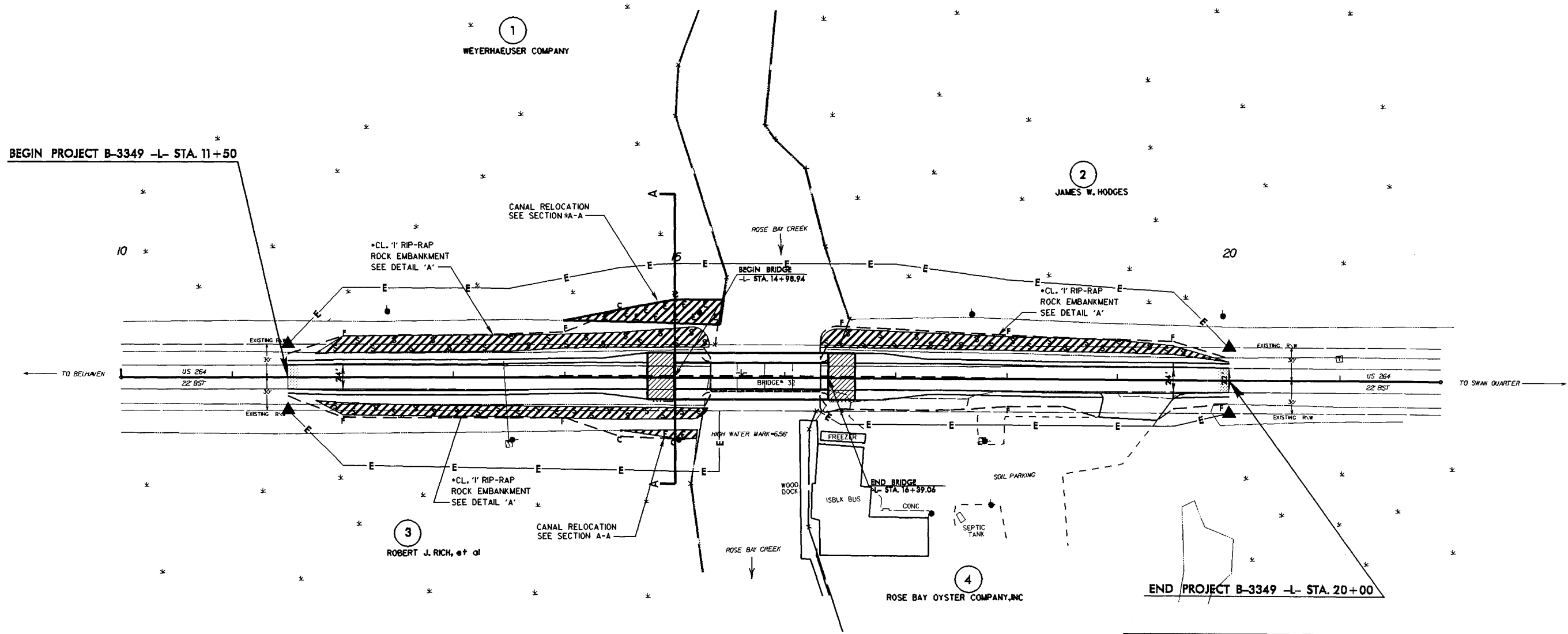


REVISED 01/18/05



PROJECT REFERENCE NO. B-3349	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
	2-23-05 RCH
-L-	

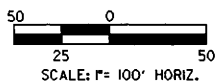
BEGIN PROJECT B-3349 -L- STA. 11+50



DENOTES FILL IN SURFACE WATER

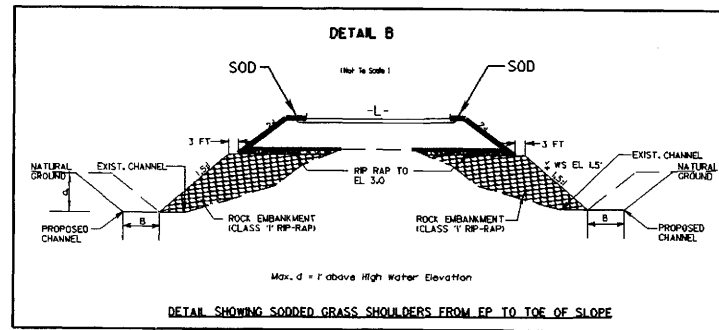


DENOTES EXCAVATION IN WETLAND



REVISED 1/18/05

DESIGN EXCEPTION REQUIRED FOR -L- LINE SHOULDER WIDTHS.



STA 11+50 -L- TO STA 20+00 -L- RT & LT

NOTE: SEE SHEET 5 FOR -L- PROFILE
SEE SHEETS S-1 THRU S-44 FOR STRUCTURE PLANS
SEE SHEET 4A FOR DETOUR ALIGNMENT

23-FEB-2005 10:01 AM
C:\hydraulics\revised\add\B3349_hyd_drn.dgn
jedunnhebb

BEGIN GRADE -L- STA 12+00
ELEV. = 5.50'

RESURFACE

10

0

-10

(Hurricane Floyd)
HIGH WATER MARK=6.56'

(+)0.50/3%

US 264

N.G. (MARSHLAND) LT & RT

CL.'B' RIP-RAP

MATCH LINE 15+52

PI = 15+83.00
EL = 7.42'
VC = 300'

RECEIVED
FEB 21 2005
COASTAL MANAGEMENT
ELIZABETH CITY

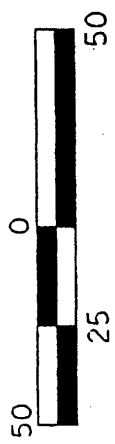
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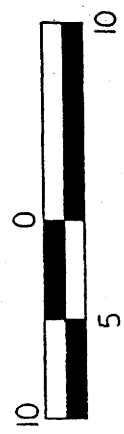
13

14

15



SCALE: 1" = 50' HORIZ.



SCALE: 1" = 10' VERT.

PLAN VIEW

N. C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
HYDE COUNTY
PROJECT: 8.1080701 (B-3349)
BRIDGE #32 OVER ROSE BAY
CREEK ON US 264
SHEET 6 OF 10 REV. 8/19/04

MATCH LINE 15+52

PI = 15+83.00
EL = 7.42'
VC = 300'

END GRADE -L- STA 19+50

ELEV. = 5.24'

STA. 15+67.94-L-
SPANS: 3@46' CORED SLAB
ELEV. = 7.02'
SKEW = 90°

(-10.5940% US 264)

N.G. RT.
N.G. LT. (MARSHLAND)

VERTICAL
ABUTMENT

N.W.S. EL. = 11.5' ▽

10

0

-10

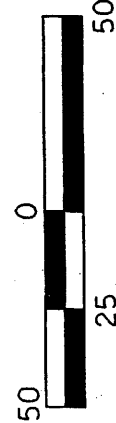
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17

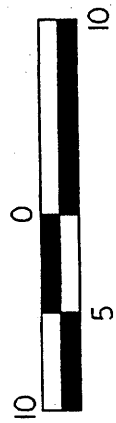
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19

20



SCALE: 1" = 50' HORIZ.



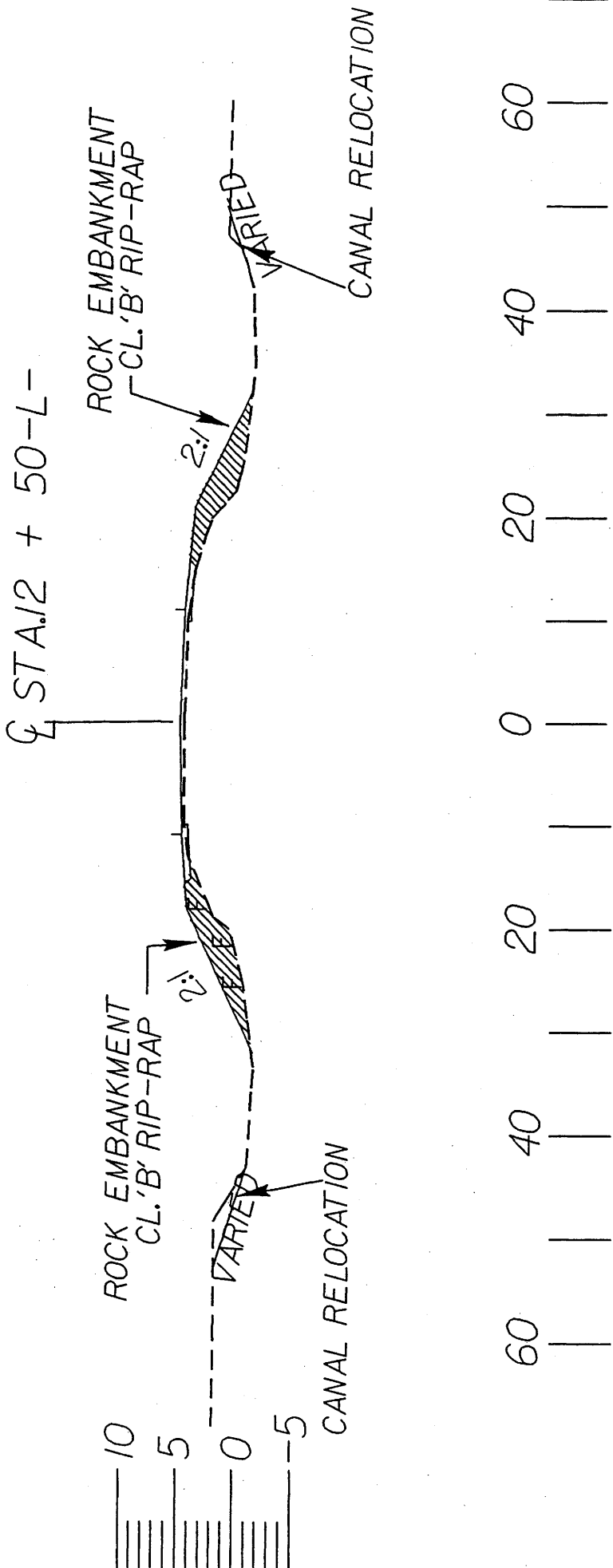
SCALE: 1" = 10' VERT.

PROFILE

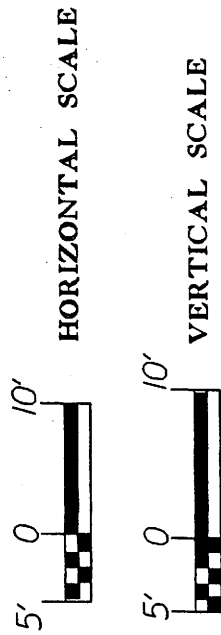
N. C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
HYDE COUNTY
PROJECT: 8.1080701 (B-3349)

BRIDGE #32 OVER ROSE BAY
CREEK ON US 264

SECTION A — A



PROFILE



N. C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 HYDE COUNTY
 PROJECT: 8.1080701 (B-3349)
 BRIDGE NO. 32 OVER ROSE BAY
 CREEK ON US264
 SHEET 8 OF 10 revised 8/19/04

PROPERTY OWNERS

NAMES AND ADDRESSES

PARCEL NO.	NAMES	ADDRESSES
4	MATTAMUSKEET SEAFOOD (ROSE BAY OYSTER COMPANY)	RT.1 BOX 136 SWAN QUARTER, N.C. 27885
2	JAMES W. HODGES	695 E. MAIN ST. BELHAVEN, N.C. 27810
3	ROBERT J. RICH	1468 CAROLINA AVE. WASHINGTON, N.C. 27889
1	WEYERHAEUSER COMPANY	P.O. BOX 1392 NEW BERN, N.C. 28560

RECEIVED

FEB 21 2005

COASTAL MANAGEMENT
ELIZABETH CITY

NCDOT

DIVISION OF HIGHWAYS
HYDE COUNTY

PROJECT: 8.1080701 (B-3349)

REPLACE BRG[#] 32 OVER ROSE
BAY CREEK ON US 264

WETLAND PERMIT IMPACT SUMMARY													
Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS				SURFACE WATER IMPACTS						
			Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation In Wetlands (ac)	Mechanized Clearing (Method III) (ac)	Fill In SW (Natural) (ac)	Fill In SW (Pond) (ac)	Temp. Fill In SW (ac)	Existing Channel Impacted (ft)	Relocated Channel (ft)		
1	11+75 to 20+00-L-	Bridge: 3 @ 46' cored slab	0.009		0.06			0.3				1080	214
TOTALS:			0.009	0	0.06	0	0.3	0	0	0	1080	214	

RECEIVED

FEB 21 2005

COPY SENT TO PERMIT

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 HYDE COUNTY
 PROJECT 8.1080701 B3349
 SHEET 10 OF 10 Revised 1/19/2005