



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR.
SECRETARY

January 21, 2011

U. S. Army Corps of Engineers
Regulatory Field Office
Post Office Box 1000
Washington, NC 27889-1000

N. C. Dept. of Environment and Natural Resources
Division of Coastal Management
400 Commerce Avenue
Morehead City, NC 28557

ATTN: Mr. Tom Steffens
NCDOT Coordinator

ATTN: Mr. Stephen Lane
NCDOT Coordinator

Dear Sirs:

Subject: Application for Section 404 Nationwide Permits 23 and 13, Section 401 Water Quality Certification, CAMA Major Development Permit, and Tar-Pamlico Riparian Buffer Authorization for the replacement of Bridge No. 51 over Broad Creek on US 264 in Beaufort County. State Project No. 8.1151601; Federal Aid Project Number BRSTP-264(24); Debit \$400 from WBS 33690.1.1; **TIP No. B-4413.**

The North Carolina Department of Transportation (NCDOT), Division of Highways, in consultation with the Federal Highway Administration (FHWA), proposes to replace Bridge No. 51 in Beaufort County. The proposed let date for the project is October 18, 2011 with a review date of August 18, 2011; however, the let date may advance as additional funds become available.

Please find enclosed a Pre-Construction Notification (PCN) form, permit drawings, buffer drawings, utility drawings, roadway plans, a copy of the State Stormwater Management Plan, EEP Mitigation Acceptance Letter, North Carolina Division of Coastal Management Major Permit Forms 1, 2, and 5. Please note that due to schedule constraints, adjacent riparian landowner return receipts will be forwarded once they become available. A Categorical Exclusion (CE) was completed for this project on May 29, 2008, and distributed shortly thereafter. Additional copies are available upon request.

Regulatory Approvals

Section 404 Permit: NCDOT requests that a Nationwide Permit 23 be issued to authorize the majority of impacts resulting from this project in accordance with 23 CFR 771.115(b). We are also requesting the issuance of a Nationwide Permit 13 for bank stabilization. (72 CFR; 11092-11198, March 12, 2007).

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

TELEPHONE: 919-431-2000
FAX: 919-431-2002

WEBSITE: WWW.NCDOT.ORG

LOCATION:
4701 ATLANTIC AVENUE
SUITE 116
RALEIGH NC 27604

Section 401 Permit: We anticipate 401 Certification numbers 3701 and 3689 will apply to this project. All general conditions of the Water Quality Certifications will be met and we are requesting written approval from NCDWQ. In accordance with 15A NCAC 2H, Section .0500(a), we are providing five copies of this application to the NCDWQ for their approval.

CAMA: NCDOT requests that the proposed work be authorized under a Coastal Area Management Act Major Development Permit. The certified mail landowner receipts will be provided once they are available. Authorization to debit the \$400 Permit Application Fee from WBS Element 33690.1.1 is hereby given.

Tar-Pamlico River Basin Buffer Authorization: NCDOT requests that the NC Division of Water Quality review this application and issue a written approval for a Tar-Pamlico Riparian Buffer Authorization.

A copy of this permit application will be posted on the NCDOT website at:
<http://www.ncdot.org/doh/preconstruct/pe/neu/permit.html>

If you have any questions or need additional information, please call or email Dr. Lance P. Fontaine at 919-431-6667 or lpfontaine@ncdot.gov.

Sincerely,



Gregory J. Thorpe, Ph.D. Environmental Management Director
Project Development and Environmental Analysis Branch

W/attachment

Mr. Brian Wrenn, NCDWQ (5 Copies)
Mr. Steve Sollod, NCDCM

W/o attachment (see website for attachments)

Dr. David Chang, P.E., Hydraulics
Mr. Greg Perfetti, P.E., Structure Design
Mr. Dewayne Sykes, P.E., Utilities
Mr. Mark Staley, Roadside Environmental
Mr. C. E. Lassiter, P.E., Div. 2 Engineer
Mr. Jay Johnson, Div. 2 Environmental Officer
Mr. Gary Jordan, USFWS
Mr. Travis Wilson, NCWRC
Mr. Ron Sechler, NMFS
Ms. Anne Deaton, NCDMF
Mr. Jay Bennett, P.E., Roadway Design
Mr. Majed Alghandour, P. E., Programming and TIP
Mr. Art McMillan, P.E., Highway Design
Ms. Beth Harmon, EEP
Mr. Phillip Ayscue, NCDOT External Audit Branch
Ms. Natalie Lockhart, PDEA Project Planning Engineer

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

Action Id. SAW 2009-01868

County: Beaufort

U.S.G.S. Quad: Pantego

NOTIFICATION OF JURISDICTIONAL DETERMINATION

Fontaine

RECEIVED

OCT 16 2009

[Signature]
DIVISION OF HIGHWAYS
PDEA-OFFICE OF NATURAL ENVIRONMENT

Property Owner/Agent: NC Department of Transportation

Address: attn: Lance Fontaine
1598 Mail Service Center
Raleigh, NC 27699

Telephone No.: 919-431-6667

Property description:

Size (acres) 10

Nearest Waterway Broad Creek

USGS HUC 03020104

Location description B-4413 over Broad Creek on US 264 southwest of Pantego.

Nearest Town Pantego

River Basin Tar-Pamlico

Coordinates N 35.570055 W -76.692991

Indicate Which of the Following Apply:

A. Preliminary Determination

- Based on preliminary information, there may be wetlands on the above described property. We strongly suggest you have this property inspected to determine the extent of Department of the Army (DA) jurisdiction. To be considered final, a jurisdictional determination must be verified by the Corps. This preliminary determination is not an appealable action under the Regulatory Program Administrative Appeal Process (Reference 33 CFR Part 331).

B. Approved Determination

- There are Navigable Waters of the United States within the above described property subject to the permit requirements of Section 10 of the Rivers and Harbors Act and Section 404 of the Clean Water Act. Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.

- There are waters of the U.S. including wetlands on the above described project area subject to the permit requirements of Section 404 of the Clean Water Act (CWA)(33 USC § 1344). Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.

We strongly suggest you have the wetlands on your property delineated. Due to the size of your property and/or our present workload, the Corps may not be able to accomplish this wetland delineation in a timely manner. For a more timely delineation, you may wish to obtain a consultant. To be considered final, any delineation must be verified by the Corps.

The waters of the U.S. including wetland on your project area have been delineated and the delineation has been verified by the Corps. We strongly suggest you have this delineation surveyed. Upon completion, this survey should be reviewed and verified by the Corps. Once verified, this survey will provide an accurate depiction of all areas subject to CWA jurisdiction on your property which, provided there is no change in the law or our published regulations, may be relied upon for a period not to exceed five years.

The wetlands have been delineated and surveyed and are accurately depicted on the plat signed by the Corps Regulatory Official identified below on _____. Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.

- There are no waters of the U.S., to include wetlands, present on the above described property which are subject to the permit requirements of Section 404 of the Clean Water Act (33 USC 1344). Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.

- The property is located in one of the 20 Coastal Counties subject to regulation under the Coastal Area Management Act (CAMA). You should contact the Division of Coastal Management in Washington, NC, at (252) 946-6481 to determine their requirements.

Action Id. SAW 2009-01868

Placement of dredged or fill material within waters of the US and/or wetlands without a Department of the Army permit may constitute a violation of Section 301 of the Clean Water Act (33 USC § 1311). If you have any questions regarding this determination and/or the Corps regulatory program, please contact William Wescott at 910-251-4629.

C. Basis For Determination

Broad Creek is a TNW that flows into Pantego Creek which flows into Pungo River (AIWW). Wetlands are abutting Broad Creek.

D. Remarks

E. Appeals Information (This information applies only to approved jurisdictional determinations as indicated in B. above)

This correspondence constitutes an approved jurisdictional determination for the above described site. If you object to this determination, you may request an administrative appeal under Corps regulations at 33 CFR part 331. Enclosed you will find a Notification of Appeal Process (NAP) fact sheet and request for appeal (RFA) form. If you request to appeal this determination you must submit a completed RFA form to the following address:

District Engineer, Wilmington Regulatory Division
Attn: William Wescott, Project Manager,
Washington Regulatory Field Office
Post Office Box 1000
Washington, North Carolina 27889

In order for an RFA to be accepted by the Corps, the Corps must determine that it is complete, that it meets the criteria for appeal under 33 CFR part 331.5, and that it has been received by the District Office within 60 days of the date of the NAP. Should you decide to submit an RFA form, it must be received at the above address by 12/6/2009.

It is not necessary to submit an RFA form to the District Office if you do not object to the determination in this correspondence.

Corps Regulatory Official: _____



Date 10/06/2009

Expiration Date 10/06/2014

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

Copy furnished:

NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND REQUEST FOR APPEAL

| | | |
|---|--------------|-------------------|
| Applicant: NCDOT | File Number: | Date: 10/6/2009 |
| Attached is: SAW 2009-01868 | | See Section below |
| <input type="checkbox"/> INITIAL PROFFERED PERMIT (Standard Permit or Letter of permission) | | A |
| <input type="checkbox"/> PROFFERED PERMIT (Standard Permit or Letter of permission) | | B |
| <input type="checkbox"/> PERMIT DENIAL | | C |
| <input checked="" type="checkbox"/> APPROVED JURISDICTIONAL DETERMINATION | | D |
| <input type="checkbox"/> PRELIMINARY JURISDICTIONAL DETERMINATION | | E |

SECTION I - The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at <http://www.usace.army.mil/inet/functions/cw/cecwo/reg> or Corps regulations at 33 CFR Part 331.

A: INITIAL PROFFERED PERMIT: You may accept or object to the permit.

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- **OBJECT:** If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.

B: PROFFERED PERMIT: You may accept or appeal the permit

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- **APPEAL:** If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

C: PERMIT DENIAL: You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

D: APPROVED JURISDICTIONAL DETERMINATION: You may accept or appeal the approved JD or provide new information.

- **ACCEPT:** You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice, means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.
- **APPEAL:** If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the district engineer. This form must be received by the division engineer within 60 days of the date of this notice.

E: PRELIMINARY JURISDICTIONAL DETERMINATION: You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.

SECTION II - REQUEST FOR APPEAL or OBJECTIONS TO AN INITIAL PROFFERED PERMIT

REASONS FOR APPEAL OR OBJECTIONS: (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)

ADDITIONAL INFORMATION: The appeal is limited to a review of the administrative record, the Corps memorandum for the record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses to the record. However, you may provide additional information to clarify the location of information that is already in the administrative record.

POINT OF CONTACT FOR QUESTIONS OR INFORMATION:

If you have questions regarding this decision and/or the appeal process you may contact:
USACE
Attn: William Wescott
Post Office Box 1000
Washington, NC 27889

If you only have questions regarding the appeal process you may also contact:
Mr. Mike Bell, Administrative Appeal Review Officer
CESAD-ET-CO-R
U.S. Army Corps of Engineers, South Atlantic Division
60 Forsyth Street, Room 9M15
Atlanta, Georgia 30303-8801

RIGHT OF ENTRY: Your signature below grants the right of entry to Corps of Engineers personnel, and any government consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a 15 day notice of any site investigation, and will have the opportunity to participate in all site investigations.

| | | |
|---|-------|-------------------|
| <hr/> Signature of appellant or agent. | Date: | Telephone number: |
|---|-------|-------------------|

For appeals on Initial Proffered Permits and approved Jurisdictional Determinations send this form to:

District Engineer, Wilmington Regulatory Division, Attn: William Wescott, Project Manager, Washington Regulatory Field Office, Post Office Box 1000, Washington, North Carolina 27889

For Permit denials and Proffered Permits send this form to:

Division Engineer, Commander, U.S. Army Engineer Division, South Atlantic, Attn: Mr. Mike Bell, Administrative Appeal Officer, CESAD-ET-CO-R, 60 Forsyth Street, Room 9M15, Atlanta, Georgia 30303-8801



North Carolina Department of Transportation
Highway Stormwater Program
STORMWATER MANAGEMENT PLAN

Version 1.1



Released: July 2010 (DRAFT)

| General Project Information | |
|--|---|
| Project No.: | 33690.1.1 (B-4413) |
| City/Town: | Pantego, NC |
| County(ies): | Beaufort County |
| River Basin(s): | Tar-Pamlico |
| Primary Receiving Water: | Broad Creek |
| NCDWQ Surface Water Classification for Primary Receiving Water | Primary: Class C Supplemental: Nutrient Sensitive Waters (NSW) |
| Other Stream Classification: | Areas of Environmental Concern |
| 303(d) Stream? | yes |
| Type(s) of Impairment: | Severe Bioclassification chlorophyll a, copper |
| State Stormwater Permit Required? | yes |
| If yes, why? | CAMA County |
| Could the Project Impact Threatened or Endangered Species? | yes |
| Description: | No Effect or May Effect, Not Likely to Adversely Effect (West Indian Manatee) |
| Anadromous Fish Present? | yes |
| Description: | |
| Buffer Rules in Effect? | yes |
| Buffer Rules: | Tar-Pamlico River Basin |
| Existing Site | |
| Description of Existing Project Area: | Two Lane US 264 |
| Average Daily Traffic (existing): | 3800 vpd |
| Existing Cross Section: | 12' Travel Lanes, 8' Grass Shoulders |
| Surrounding Land Use: | Swamp, Wooded |
| General Comments: | |
| Project Description | |
| Description of Proposed Project: | Replacement of Bridge #51 on US 264 over Broad Creek |
| Average Daily Traffic (proposed): | 6,100 vpd (2030) |
| Proposed Cross-Section: | 12' Travel Lanes, 8' Grass Shoulders, 3:1 Side Slopes |
| Interchange Modification: | no |
| Median Type: | None |
| Terminus: | NA |
| Terminus: | NA |
| Project Length (lin. miles/feet): | 0.150mi. |
| Added Impervious Area (ac.): | 0.11ac |
| General Comments: | |
| Reduced number of bents in creek from 5 to 2. 3:1 max side slopes. Utilizing preformed scour hole and grassed swales. Using Class I rip-rap on banks to minimize potential bank erosion. Increasing bridge opening area. No deck drains. | |



January 19, 2011

Mr. Gregory J. Thorpe, Ph.D.
 Environmental Management Director
 Project Development and Environmental Analysis Branch
 North Carolina Department of Transportation
 1548 Mail Service Center
 Raleigh, North Carolina 27699-1548

Dear Dr. Thorpe:

Subject: EEP Mitigation Acceptance Letter:

B-4413, Replace Bridge Number 51 over Broad Creek on US 264, Beaufort County

The purpose of this letter is to notify you that the Ecosystem Enhancement Program (EEP) will provide the riparian wetland mitigation and buffer mitigation for the subject project. Based on the information supplied by you on January 12, 2011, the riparian wetland impacts are located in CU 03020104 of the Tar-Pamlico River Basin in the Northern Outer Coastal Plain (NOCP) Eco-Region, and are as follows:

| Stream and Wetlands | River Basin | CU Location | Eco-Region | Stream | | | Wetlands | | |
|------------------------------|-------------|-------------|------------|--------|------|------|----------|--------------|---------------|
| | | | | Cold | Cool | Warm | Riparian | Non-Riparian | Coastal Marsh |
| Impacts | Tar-Pamlico | 03020104 | NOCP | 0 | 0 | 0 | 0.58 | 0 | 0 |
| Mitigation Units (up to 2:1) | Tar-Pamlico | 03020104 | NOCP | 0 | 0 | 0 | 1.16 | 0 | 0 |

All buffer mitigation requests and approvals are administrated through the Riparian Restoration Buffer Fund. The NCDOT will be responsible to ensure that appropriate compensation for the additional buffer mitigation will be provided in the agreed upon method of fund transfer. Upon receipt of the NCDWQ's Buffer Authorization Certification, EEP will transfer funds from MOA Fund into the Riparian Restoration Buffer Fund. Upon completion of transfer payment, NCDOT will have completed its additional riparian buffer mitigation responsibility for B-4413. Subsequently, EEP will conduct a review of current MOA mitigation projects in the river basin to determine if available buffer mitigation credits exist. If there are buffer mitigation credits available, then the Riparian Restoration Buffer Fund will purchase the appropriate amount of buffer mitigation credits from MOA Fund. The buffer impacts and anticipated buffer mitigation credits needed are as follows:

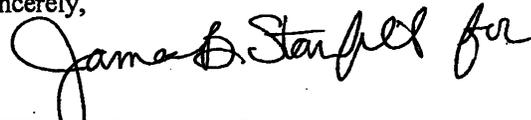
Dr. Thorpe
 January 19, 2011
 TIP Number B-4413
 Page Two

| Buffer | River Basin | CU Location | Eco-Region | Buffer | | |
|------------------|-------------|---------------------------------------|------------|----------|---------|----------|
| | | | | Zone 1 | Zone 2 | TOTAL |
| Impacts | Tar-Pamlico | 03020104 | NOCP | 3,355.0 | 2,149.0 | 5,504.0 |
| Mitigation Units | Tar-Pamlico | 03020103, 03020104, or 03020105 | NOCP | 10,065.0 | 3,224.0 | 13,289.0 |

EEP commits to implementing sufficient compensatory riparian wetland mitigation credits to offset the impacts associated with this project in accordance with the N.C. Department of Environment and Natural Resources' Ecosystem Enhancement Program In-Lieu Fee Instrument dated July 28, 2010. If the above referenced impact amounts are revised, then this mitigation acceptance letter will no longer be valid and a new mitigation acceptance letter will be required from EEP.

If you have any questions or need additional information, please contact Ms. Beth Harmon at 919-715-1929.

Sincerely,



William D. Gilmore, P.E.
 EEP Director

Cc: Mr. Tom Steffens, USACE – Washington Regulatory Field Office
 Mr. Brian Wrenn, NC Division of Water Quality
 File: B-4413

Restoring... Enhancing... Protecting Our State





Office Use Only:
 Corps action ID no. _____
 DWQ project no. _____
 Form Version 1.3 Dec 10 2008

Pre-Construction Notification (PCN) Form

A. Applicant Information

1. Processing

| | | |
|--|---|--|
| 1a. Type(s) of approval sought from the Corps: | <input checked="" type="checkbox"/> Section 404 Permit | <input type="checkbox"/> Section 10 Permit |
| 1b. Specify Nationwide Permit (NWP) number: 23 13 or General Permit (GP) number: | | |
| 1c. Has the NWP or GP number been verified by the Corps? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| 1d. Type(s) of approval sought from the DWQ (check all that apply): | | |
| <input checked="" type="checkbox"/> 401 Water Quality Certification – Regular <input type="checkbox"/> Non-404 Jurisdictional General Permit <input type="checkbox"/> 401 Water Quality Certification – Express <input checked="" type="checkbox"/> Riparian Buffer Authorization | | |
| 1e. Is this notification solely for the record because written approval is not required? | For the record only for DWQ 401 Certification: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | For the record only for Corps Permit: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 1f. Is payment into a mitigation bank or in-lieu fee program proposed for mitigation of impacts? If so, attach the acceptance letter from mitigation bank or in-lieu fee program. | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| 1g. Is the project located in any of NC's twenty coastal counties. If yes, answer 1h below. | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| 1h. Is the project located within a NC DCM Area of Environmental Concern (AEC)? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |

2. Project Information

| | |
|--|---|
| 2a. Name of project: | Replacement of Bridge No. 51 over Broad Creek on US 264 |
| 2b. County: | Beaufort |
| 2c. Nearest municipality / town: | Pantego |
| 2d. Subdivision name: | <i>not applicable</i> |
| 2e. NCDOT only, T.I.P. or state project no.: | B-4413 |

3. Owner Information

| | |
|--|---|
| 3a. Name(s) on Recorded Deed: | North Carolina Department of Transportation |
| 3b. Deed Book and Page No. | <i>not applicable</i> |
| 3c. Responsible Party (for LLC if applicable): | <i>not applicable</i> |
| 3d. Street address: | 1598 Mail Service Center |
| 3e. City, state, zip: | Raleigh, NC 27699-1598 |
| 3f. Telephone no.: | (919) 431-6667 |
| 3g. Fax no.: | (919) 431-2002 |
| 3h. Email address: | lfontaine@ncdot.gov |

| | |
|---|---|
| 4. Applicant Information (if different from owner) | |
| 4a. Applicant is: | <input type="checkbox"/> Agent <input type="checkbox"/> Other, specify: |
| 4b. Name: | <i>not applicable</i> |
| 4c. Business name (if applicable): | |
| 4d. Street address: | |
| 4e. City, state, zip: | |
| 4f. Telephone no.: | |
| 4g. Fax no.: | |
| 4h. Email address: | |
| 5. Agent/Consultant Information (if applicable) | |
| 5a. Name: | <i>not applicable</i> |
| 5b. Business name (if applicable): | |
| 5c. Street address: | |
| 5d. City, state, zip: | |
| 5e. Telephone no.: | |
| 5f. Fax no.: | |
| 5g. Email address: | |

| B. Project Information and Prior Project History | |
|---|--|
| 1. Property Identification | |
| 1a. Property identification no. (tax PIN or parcel ID): | <i>not applicable</i> |
| 1b. Site coordinates (in decimal degrees): | Latitude: 35.570604 (DD.DDDDDD) Longitude: - 76.692861 (-DD.DDDDDD) |
| 1c. Property size: | 2.7 acres |
| 2. Surface Waters | |
| 2a. Name of nearest body of water (stream, river, etc.) to proposed project: | Broad Creek |
| 2b. Water Quality Classification of nearest receiving water: | SC; NSW |
| 2c. River basin: | Broad |
| 3. Project Description | |
| 3a. Describe the existing conditions on the site and the general land use in the vicinity of the project at the time of this application: Existing conditions on the site include mostly forested areas with maintained/disturbed roadside shoulders and driveway access to Broad Creek. General land use in the project vicinity is agriculture and silviculture. | |
| 3b. List the total estimated acreage of all existing wetlands on the property: 0.85 | |
| 3c. List the total estimated linear feet of all existing streams (intermittent and perennial) on the property: Broad Creek - 512 feet | |
| 3d. Explain the purpose of the proposed project: To replace a structurally deficient bridge. | |
| 3e. Describe the overall project in detail, including the type of equipment to be used: The project involves replacing a 69-foot bridge with a 130-foot, 3-span bridge on the existing alignment with an off-site detour. Standard road and bridge building equipment, such as trucks, dozers, and cranes will be used. Telephone and fiber-optic utilities will be relocated on-site via the directional bore method without impacts to wetland areas or Broad Creek. | |
| 4. Jurisdictional Determinations | |
| 4a. Have jurisdictional wetland or stream determinations by the Corps or State been requested or obtained for this property / project (including all prior phases) in the past? Comments: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown |
| 4b. If the Corps made the jurisdictional determination, what type of determination was made? | <input type="checkbox"/> Preliminary <input checked="" type="checkbox"/> Final |
| 4c. If yes, who delineated the jurisdictional areas? Name (if known): J. Harbour | Agency/Consultant Company: ESI, Inc. Other: |
| 4d. If yes, list the dates of the Corps jurisdictional determinations or State determinations and attach documentation. October 6, 2009 | |
| 5. Project History | |
| 5a. Have permits or certifications been requested or obtained for this project (including all prior phases) in the past? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Unknown |
| 5b. If yes, explain in detail according to "help file" instructions. A representative for Tideland EMC contacted our office on November 05, 2009 indicating that the utility company would be relocating their existing pole line and would acquire the necessary permits. | |

6. Future Project Plans

6a. Is this a phased project?

Yes

No

6b. If yes, explain.

| C. Proposed Impacts Inventory | | | | | | |
|--|---------------------------|---|---|---|------------------------------------|------------------------------------|
| 1. Impacts Summary | | | | | | |
| 1a. Which sections were completed below for your project (check all that apply): | | | | | | |
| <input checked="" type="checkbox"/> Wetlands | | <input checked="" type="checkbox"/> Streams - tributaries | | <input checked="" type="checkbox"/> Buffers | | |
| <input type="checkbox"/> Open Waters | | <input type="checkbox"/> Pond Construction | | | | |
| 2. Wetland Impacts | | | | | | |
| If there are wetland impacts proposed on the site, then complete this question for each wetland area impacted. | | | | | | |
| 2a. Wetland impact number – Permanent (P) or Temporary (T) | 2b. Type of impact | 2c. Type of wetland (if known) | 2d. Forested | 2e. Type of jurisdiction (Corps - 404, 10 DWQ – non-404, other) | 2f. Area of impact (acres) | |
| Site 1 <input checked="" type="checkbox"/> P <input type="checkbox"/> T | Fill | Riparian | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ | 0.33 | |
| Site 2 <input checked="" type="checkbox"/> P <input type="checkbox"/> T | Excavation | Riparian | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ | 0.01 | |
| Site 3 <input checked="" type="checkbox"/> P <input type="checkbox"/> T | Mechanized clearing | Riparian | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ | 0.24 | |
| Site 4 <input type="checkbox"/> P <input type="checkbox"/> T | | | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Corps <input type="checkbox"/> DWQ | | |
| Site 5 <input type="checkbox"/> P <input type="checkbox"/> T | | | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Corps <input type="checkbox"/> DWQ | | |
| Site 6 <input type="checkbox"/> P <input type="checkbox"/> T | | | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Corps <input type="checkbox"/> DWQ | | |
| 2g. Total wetland impacts | | | | | 0.58 Permanent 0.00 Temporary | |
| 2h. Comments: | | | | | | |
| 3. Stream Impacts | | | | | | |
| If there are perennial or intermittent stream impacts (including temporary impacts) proposed on the site, then complete this question for all stream sites impacted. | | | | | | |
| 3a. Stream impact number - Permanent (P) or Temporary (T) | 3b. Type of impact | 3c. Stream name | 3d. Perennial (PER) or intermittent (INT)? | 3e. Type of jurisdiction (Corps - 404, 10 DWQ – non-404, other) | 3f. Average stream width (feet) | 3g. Impact length (linear feet) |
| Site 1 <input checked="" type="checkbox"/> P <input type="checkbox"/> T | Embankment Riprap | Broad Creek | <input checked="" type="checkbox"/> PER <input type="checkbox"/> INT | <input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ | 70 | 11 |
| Site 2 <input type="checkbox"/> P <input checked="" type="checkbox"/> T | Existing abutment removal | Broad Creek | <input checked="" type="checkbox"/> PER <input type="checkbox"/> INT | <input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ | 70 | 58 |
| Site 3 <input type="checkbox"/> P <input type="checkbox"/> T | | | <input type="checkbox"/> PER <input type="checkbox"/> INT | <input type="checkbox"/> Corps <input type="checkbox"/> DWQ | | |
| Site 4 <input type="checkbox"/> P <input type="checkbox"/> T | | | <input type="checkbox"/> PER <input type="checkbox"/> INT | <input type="checkbox"/> Corps <input type="checkbox"/> DWQ | | |
| Site 5 <input type="checkbox"/> P <input type="checkbox"/> T | | | <input type="checkbox"/> PER <input type="checkbox"/> INT | <input type="checkbox"/> Corps <input type="checkbox"/> DWQ | | |
| Site 6 <input type="checkbox"/> P <input type="checkbox"/> T | | | <input type="checkbox"/> PER <input type="checkbox"/> INT | <input type="checkbox"/> Corps <input type="checkbox"/> DWQ | | |
| 3h. Total stream and tributary impacts | | | | | | 11 Perm 58 Temp |
| 3i. Comments: Impacts due to proposed piers is 20 square feet (<0.01 ac). | | | | | | |

4. Open Water Impacts

If there are proposed impacts to lakes, ponds, estuaries, tributaries, sounds, the Atlantic Ocean, or any other open water of the U.S. then individually list all open water impacts below.

| 4a. Open water impact number – Permanent (P) or Temporary (T) | 4b. Name of waterbody (if applicable) | 4c. Type of impact | 4d. Waterbody type | 4e. Area of impact (acres) |
|--|--|-----------------------|-----------------------|-------------------------------|
| O1 <input type="checkbox"/> P <input type="checkbox"/> T | | | | |
| O2 <input type="checkbox"/> P <input type="checkbox"/> T | | | | |
| O3 <input type="checkbox"/> P <input type="checkbox"/> T | | | | |
| O4 <input type="checkbox"/> P <input type="checkbox"/> T | | | | |
| 4f. Total open water impacts | | | | X Permanent X Temporary |

4g. Comments:

5. Pond or Lake Construction

If pond or lake construction proposed, then complete the chart below.

| 5a. Pond ID number | 5b. Proposed use or purpose of pond | 5c. Wetland Impacts (acres) | | | 5d. Stream Impacts (feet) | | | 5e. Upland (acres) |
|-----------------------|--|--------------------------------|--------|-----------|------------------------------|--------|-----------|-----------------------|
| | | Flooded | Filled | Excavated | Flooded | Filled | Excavated | Flooded |
| P1 | | | | | | | | |
| P2 | | | | | | | | |
| 5f. Total | | | | | | | | |

5g. Comments:

| | |
|---|---|
| 5h. Is a dam high hazard permit required? | <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, permit ID no: |
| 5i. Expected pond surface area (acres): | |
| 5j. Size of pond watershed (acres): | |
| 5k. Method of construction: | |

6. Buffer Impacts (for DWQ)

If project will impact a protected riparian buffer, then complete the chart below. If yes, then individually list all buffer impacts below. If any impacts require mitigation, then you **MUST** fill out Section D of this form.

| | | | | | |
|---|--------------------------|--------------------|--|---|------------------------------------|
| 6a. Project is in which protected basin? | | | <input type="checkbox"/> Neuse <input type="checkbox"/> Catawba | <input checked="" type="checkbox"/> Tar-Pamlico <input type="checkbox"/> Randleman | <input type="checkbox"/> Other: |
| 6b. Buffer impact number – Permanent (P) or Temporary (T) | 6c. Reason for impact | 6d. Stream name | 6e. Buffer mitigation required? | 6f. Zone 1 impact (square feet) | 6g. Zone 2 impact (square feet) |
| B1 <input checked="" type="checkbox"/> P <input type="checkbox"/> T | Roadway Fill | Broad Creek | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 218 | 809 |
| B2 <input checked="" type="checkbox"/> P <input type="checkbox"/> T | Bridge | Broad Creek | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 927 | 0 |
| B3 <input checked="" type="checkbox"/> P <input type="checkbox"/> T | Driveway | Broad Creek | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 1130 | 782 |
| B4 <input checked="" type="checkbox"/> P <input type="checkbox"/> T | Access Road | Broad Creek | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | 2225 | 1367 |
| 6h. Total buffer impacts | | | | 4500 | 2958 |
| 6i. Comments: | | | | | |

| | | |
|--|---|----------|
| D. Impact Justification and Mitigation | | |
| 1. Avoidance and Minimization | | |
| 1a. Specifically describe measures taken to avoid or minimize the proposed impacts in designing project. The proposed bridge is 61 feet longer than the existing bridge; the proposed bridge will be at approximately the same grade as the existing structure; an off-site detour will be used; development and adherence to stormwater management plan involving the use of grassy swales where appropriate, reduction in bent quantity (from 5 to 2), use of class I rip rap to prevent erosion at outlets, no deck drains, and use of preformed scour holes. Additionally, hydrological connectivity of the stream will be improved with the use of a longer bridge and removal of fill to improve hydrological conveyance and reduce velocities; an off site detour will be used, 3:1 fill slopes where practicable. | | |
| 1b. Specifically describe measures taken to avoid or minimize the proposed impacts through construction techniques. Design Standards in Sensitive Watersheds utilizing appropriate sedimentation and erosion control measures; top-down construction; adherence to in-water work moratorium of February 15 to June 15 due to anadromous fish; adherence to West Indian Manatee Guidelines; telephone and fiber optic utilities will use trenchless method (directional bore) to place their facilities under Broad Creek; staging area and access boxes for telephone and fiber optic utilities will be located outside wetland areas and buffer zone. | | |
| 2. Compensatory Mitigation for Impacts to Waters of the U.S. or Waters of the State | | |
| 2a. Does the project require Compensatory Mitigation for impacts to Waters of the U.S. or Waters of the State? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If no, explain: | |
| 2b. If yes, mitigation is required by (check all that apply): | <input type="checkbox"/> DWQ <input checked="" type="checkbox"/> Corps | |
| 2c. If yes, which mitigation option will be used for this project? | <input type="checkbox"/> Mitigation bank <input checked="" type="checkbox"/> Payment to in-lieu fee program <input type="checkbox"/> Permittee Responsible Mitigation | |
| 3. Complete if Using a Mitigation Bank | | |
| 3a. Name of Mitigation Bank: not applicable | | |
| 3b. Credits Purchased (attach receipt and letter) | Type | Quantity |
| 3c. Comments: | | |
| 4. Complete if Making a Payment to In-lieu Fee Program | | |
| 4a. Approval letter from in-lieu fee program is attached. | <input checked="" type="checkbox"/> Yes | |
| 4b. Stream mitigation requested: | 0 linear feet | |
| 4c. If using stream mitigation, stream temperature: | <input type="checkbox"/> warm <input type="checkbox"/> cool <input type="checkbox"/> cold | |
| 4d. Buffer mitigation requested (DWQ only): | BZ1: 3,390; BZ2: 1,173 square feet | |
| 4e. Riparian wetland mitigation requested: | 1.16 acres | |
| 4f. Non-riparian wetland mitigation requested: | 0 acres | |
| 4g. Coastal (tidal) wetland mitigation requested: | 0 acres | |
| 4h. Comments: | | |
| 5. Complete if Using a Permittee Responsible Mitigation Plan | | |
| 5a. If using a permittee responsible mitigation plan, provide a description of the proposed mitigation plan. | | |

6. Buffer Mitigation (State Regulated Riparian Buffer Rules) – required by DWQ

6a. Will the project result in an impact within a protected riparian buffer that requires buffer mitigation?

Yes No

6b. If yes, then identify the square feet of impact to each zone of the riparian buffer that requires mitigation. Calculate the amount of mitigation required.

| Zone | 6c. Reason for impact | 6d. Total impact (square feet) | Multiplier | 6e. Required mitigation (square feet) |
|--|--------------------------|--------------------------------------|-------------------|---|
| Zone 1 | Fill for driveway | 1,130 | 3 (2 for Catawba) | 3,390 |
| Zone 2 | Fill for driveway | 782 | 1.5 | 1,173 |
| 6f. Total buffer mitigation required: | | | | 4,563 |

6g. If buffer mitigation is required, discuss what type of mitigation is proposed (e.g., payment to private mitigation bank, permittee responsible riparian buffer restoration, payment into an approved in-lieu fee fund).

NC EEP will provide buffer mitigation.

6h. Comments: Required mitigation for impacts in buffer that are not associated with bridge or canal maintenance access road.

| E. Stormwater Management and Diffuse Flow Plan (required by DWQ) | |
|---|--|
| 1. Diffuse Flow Plan | |
| 1a. Does the project include or is it adjacent to protected riparian buffers identified within one of the NC Riparian Buffer Protection Rules? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 1b. If yes, then is a diffuse flow plan included? If no, explain why. Comments: See attached permit drawings. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 2. Stormwater Management Plan | |
| 2a. What is the overall percent imperviousness of this project? | N/A |
| 2b. Does this project require a Stormwater Management Plan? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 2c. If this project DOES NOT require a Stormwater Management Plan, explain why: | |
| 2d. If this project DOES require a Stormwater Management Plan, then provide a brief, narrative description of the plan: See attached permit drawings and stormwater management plan. | |
| 2e. Who will be responsible for the review of the Stormwater Management Plan? | <input type="checkbox"/> Certified Local Government <input type="checkbox"/> DWQ Stormwater Program <input checked="" type="checkbox"/> DWQ 401 Unit |
| 3. Certified Local Government Stormwater Review | |
| 3a. In which local government's jurisdiction is this project? | not applicable |
| 3b. Which of the following locally-implemented stormwater management programs apply (check all that apply): | <input type="checkbox"/> Phase II <input type="checkbox"/> NSW <input type="checkbox"/> USMP <input type="checkbox"/> Water Supply Watershed <input type="checkbox"/> Other: |
| 3c. Has the approved Stormwater Management Plan with proof of approval been attached? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 4. DWQ Stormwater Program Review | |
| 4a. Which of the following state-implemented stormwater management programs apply (check all that apply): | <input checked="" type="checkbox"/> Coastal counties <input type="checkbox"/> HQW <input type="checkbox"/> ORW <input type="checkbox"/> Session Law 2006-246 <input type="checkbox"/> Other: |
| 4b. Has the approved Stormwater Management Plan with proof of approval been attached? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 5. DWQ 401 Unit Stormwater Review | |
| 5a. Does the Stormwater Management Plan meet the appropriate requirements? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Pending |
| 5b. Have all of the 401 Unit submittal requirements been met? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Pending |

| F. Supplementary Information | |
|--|--|
| 1. Environmental Documentation (DWQ Requirement) | |
| 1a. Does the project involve an expenditure of public (federal/state/local) funds or the use of public (federal/state) land? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 1b. If you answered "yes" to the above, does the project require preparation of an environmental document pursuant to the requirements of the National or State (North Carolina) Environmental Policy Act (NEPA/SEPA)? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 1c. If you answered "yes" to the above, has the document review been finalized by the State Clearing House? (If so, attach a copy of the NEPA or SEPA final approval letter.) Comments: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 2. Violations (DWQ Requirement) | |
| 2a. Is the site in violation of DWQ Wetland Rules (15A NCAC 2H .0500), Isolated Wetland Rules (15A NCAC 2H .1300), DWQ Surface Water or Wetland Standards, or Riparian Buffer Rules (15A NCAC 2B .0200)? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 2b. Is this an after-the-fact permit application? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 2c. If you answered "yes" to one or both of the above questions, provide an explanation of the violation(s): | |
| 3. Cumulative Impacts (DWQ Requirement) | |
| 3a. Will this project (based on past and reasonably anticipated future impacts) result in additional development, which could impact nearby downstream water quality? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 3b. If you answered "yes" to the above, submit a qualitative or quantitative cumulative impact analysis in accordance with the most recent DWQ policy. If you answered "no," provide a short narrative description. Due to the minimal transportation impact resulting from this bridge replacement, this project will neither influence nearby land uses nor stimulate growth. Therefore, a detailed indirect or cumulative effects study will not be necessary. | |
| 4. Sewage Disposal (DWQ Requirement) | |
| 4a. Clearly detail the ultimate treatment methods and disposition (non-discharge or discharge) of wastewater generated from the proposed project, or available capacity of the subject facility. not applicable | |

| | | |
|--|--|--|
| 5. Endangered Species and Designated Critical Habitat (Corps Requirement) | | |
| 5a. Will this project occur in or near an area with federally protected species or habitat? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| 5b. Have you checked with the USFWS concerning Endangered Species Act impacts? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| 5c. If yes, indicate the USFWS Field Office you have contacted. | <input checked="" type="checkbox"/> Raleigh <input type="checkbox"/> Asheville | |
| 5d. What data sources did you use to determine whether your site would impact Endangered Species or Designated Critical Habitat? NCNHP, USFWS, field surveys; Re-survey for sensitive joint-vetch conducted June 25, 2009. Biological conclusion remains No Effect. | | |
| 6. Essential Fish Habitat (Corps Requirement) | | |
| 6a. Will this project occur in or near an area designated as essential fish habitat? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| 6b. What data sources did you use to determine whether your site would impact Essential Fish Habitat? NMFS County Index | | |
| 7. Historic or Prehistoric Cultural Resources (Corps Requirement) | | |
| 7a. Will this project occur in or near an area that the state, federal or tribal governments have designated as having historic or cultural preservation status (e.g., National Historic Trust designation or properties significant in North Carolina history and archaeology)? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| 7b. What data sources did you use to determine whether your site would impact historic or archeological resources? NEPA Documentation | | |
| 8. Flood Zone Designation (Corps Requirement) | | |
| 8a. Will this project occur in a FEMA-designated 100-year floodplain? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |
| 8b. If yes, explain how project meets FEMA requirements: NCDOT Hydraulics Unit coordination with FEMA | | |
| 8c. What source(s) did you use to make the floodplain determination? FEMA Maps | | |
| <u>Dr. Gregory J. Thorpe, Ph D</u> Applicant/Agent's Printed Name | _____ Applicant/Agent's Signature (Agent's signature is valid only if an authorization letter from the applicant is provided.) | _____ Date |

APPLICATION for Major Development Permit

(last revised 12/27/06)



North Carolina DIVISION OF COASTAL MANAGEMENT

1. Primary Applicant/ Landowner Information

| | | | |
|---|----------------|--|-----------------------------|
| Business Name North Carolina Department Of Transportation | | Project Name (if applicable) B-4413 (33690.1.1) | |
| Applicant 1: First Name | MI | Last Name | |
| Applicant 2: First Name | MI | Last Name | |
| <i>If additional applicants, please attach an additional page(s) with names listed.</i> | | | |
| Mailing Address 1598 Mail Service Center | | PO Box | City Raleigh |
| | | State NC | |
| ZIP 27699 1598 | Country USA | Phone No. 919 - 431 - 6667 ext. | FAX No. 919 - 431 - 2002 |
| Street Address (if different from above) | | City | State |
| | | ZIP - | |
| Email lfontaine@ncdot.gov | | | |

2. Agent/Contractor Information

| | | | |
|--|--------------|-------------------------|-------------------------|
| Business Name | | | |
| Agent/ Contractor 1: First Name | MI | Last Name | |
| Agent/ Contractor 2: First Name | MI | Last Name | |
| Mailing Address | | PO Box | City |
| | | State | |
| ZIP | | Phone No. 1 - - ext. | Phone No. 2 - - ext. |
| FAX No. | Contractor # | | |
| Street Address (if different from above) | | City | State |
| | | ZIP - | |
| Email | | | |

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| | | | |
|---|--|-----------------------|----------------|
| 3. Project Location | | | |
| County (can be multiple) Beaufort | Street Address US 264 over Broad Creek | State Rd. # US 264 | |
| Subdivision Name | City southwest of Pantego | State NC | Zip 27860 - |
| Phone No. - - ext. | Lot No.(s) (if many, attach additional page with list) | | |
| a. In which NC river basin is the project located? Tar-Pamlico | b. Name of body of water nearest to proposed project Broad Creek | | |
| c. Is the water body identified in (b) above, natural or manmade? <input checked="" type="checkbox"/> Natural <input checked="" type="checkbox"/> Manmade <input type="checkbox"/> Unknown | d. Name the closest major water body to the proposed project site. Pantego Creek | | |
| e. Is proposed work within city limits or planning jurisdiction? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | f. If applicable, list the planning jurisdiction or city limit the proposed work falls within. | | |

| | |
|--|---|
| 4. Site Description | |
| a. Total length of shoreline on the tract (ft.) 195' | b. Size of entire tract (sq.ft.) 123,054 sq ft (inside Temp Easement limits) 8700 sq ft inside R/W |
| c. Size of individual lot(s) N/A, (If many lot sizes, please attach additional page with a list) | d. Approximate elevation of tract above NHW (normal high water) or NWL (normal water level) 10' <input type="checkbox"/> NHW or <input checked="" type="checkbox"/> NWL |
| e. Vegetation on tract Taxodium distichum, Acer rubrum, Pinus taeda, Quercus nigra, Myrica cerifera, Liquidambar styraciflua, Sabal minor, Smilax rotundifolia, Typha latifolia, Scirpus cyperinus, Juncus effusus, Vaccinium corymbosum, Perusa palustris, Vitis rotundifolia, Fagus grandifolia, Andropogon virginicus, Ilex opaca, Sambucus canadensis, Lonicera japonica, Magnolia virginiana | |
| f. Man-made features and uses now on tract Existing US 264 road facility including ditches; bridge and roadway approaches; dirt access road | |
| g. Identify and describe the existing land uses adjacent to the proposed project site. Rural area dominated by bottomland hardwood forest and riverine swamp forest with some nearby agriculture, silviculture, and canals. | |
| h. How does local government zone the tract? Zoned "Not Cleared" per Beaufort Co. website | i. Is the proposed project consistent with the applicable zoning? (Attach zoning compliance certificate, if applicable) <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA |
| j. Is the proposed activity part of an urban waterfront redevelopment proposal? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | |
| k. Has a professional archaeological assessment been done for the tract? If yes, attach a copy. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA If yes, by whom? North Carolina Dept. of Cultural Resources - State Historic Preservation Office | |
| l. Is the proposed project located in a National Registered Historic District or does it involve a National Register listed or eligible property? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA | |

<Form continues on next page>

| | |
|--|---|
| m. (i) Are there wetlands on the site? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| (ii) Are there coastal wetlands on the site? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| (iii) If yes to either (i) or (ii) above, has a delineation been conducted? <i>(Attach documentation, if available)</i> | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| n. Describe existing wastewater treatment facilities. None | |
| o. Describe existing drinking water supply source. None | |
| p. Describe existing storm water management or treatment systems. None | |

| | |
|---|---|
| 5. Activities and Impacts | |
| a. Will the project be for commercial, public, or private use? | <input type="checkbox"/> Commercial <input checked="" type="checkbox"/> Public/Government <input type="checkbox"/> Private/Community |
| b. Give a brief description of purpose, use, and daily operations of the project when complete. Replace existing bridge due to low sufficiency rating. Lengthen bridge and improve road facility and safety with widening and addition of guardrail | |
| c. Describe the proposed construction methodology, types of construction equipment to be used during construction, the number of each type of equipment and where it is to be stored. Propose top/down construction with no temporary causeway(s). Typical construction equipment includes crane, bulldozer, dump trucks, motor grader, pile driver, etc. | |
| d. List all development activities you propose. Replace/Lengthen bridge; Remove portion of existing road fill/causeway to improve bridge hydraulic conveyance. Existing piers will be removed (5) and replaced with proposed piers (2). Addition of fill due to widening facility and raising of the existing road grade and construction of driveway/access ties (2). Telephone and fiber optic utilities will use trenchless method (directional bore) to place their facilities under Broad Creek; staging area and access boxes for telephone and fiber optic utilities will be located outside wetland areas and buffer zone. | |
| e. Are the proposed activities maintenance of an existing project, new work, or both? | Both |
| f. What is the approximate total disturbed land area resulting from the proposed project? | 96,500 <input checked="" type="checkbox"/> Sq.Ft or <input type="checkbox"/> Acres |
| g. Will the proposed project encroach on any public easement, public accessway or other area that the public has established use of? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA |
| h. Describe location and type of existing and proposed discharges to waters of the state. Existing facility drains as sheet flow to wetlands in all 4 quadrants. Propose grassed ditches in NW and NE quads between proposed facility and driveways to creek. Use embankment rip rap on creek banks to convey stormwater from ditches to creek. Maintain sheet flow to wetlands South of facility. | |
| i. Will wastewater or stormwater be discharged into a wetland? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA |
| If yes, will this discharged water be of the same salinity as the receiving water? | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA |
| j. Is there any mitigation proposed? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA |
| If yes, attach a mitigation proposal. | |

<Form continues on back>

| |
|--|
| 6. Additional Information <i>In addition to this completed application form, (MP-1) the following items below, if applicable, must be submitted in order for the application package to be complete. Items (a) – (f) are always applicable to any major development application. Please consult the application instruction booklet on how to properly prepare the required items below.</i> |
|--|

| |
|---|
| a. A project narrative. |
| b. An accurate, dated work plat (including plan view and cross-sectional drawings) drawn to scale. Please give the present status of the proposed project. Is any portion already complete? If previously authorized work, clearly indicate on maps, plats, drawings to distinguish between work completed and proposed. |
| c. A site or location map that is sufficiently detailed to guide agency personnel unfamiliar with the area to the site. |
| d. A copy of the deed (with state application only) or other instrument under which the applicant claims title to the affected properties. |
| e. The appropriate application fee. Check or money order made payable to DENR. |
| f. A list of the names and complete addresses of the adjacent waterfront (riparian) landowners and signed return receipts as proof that such owners have received a copy of the application and plats by certified mail. Such landowners must be advised that they have 30 days in which to submit comments on the proposed project to the Division of Coastal Management. Name See attached permit drawings Phone No. Address Name Phone No. Address Name Phone No. Address |
| g. A list of previous state or federal permits issued for work on the project tract. Include permit numbers, permittee, and issuing dates. Tideland electric obtained permits for replacement of the overhead utility lines in the eastern side of the project. Our office does not have additional information regarding these permits. |
| h. Signed consultant or agent authorization form, if applicable. |
| i. Wetland delineation, if necessary. |
| j. A signed AEC hazard notice for projects in oceanfront and inlet areas. <i>(Must be signed by property owner)</i> |
| k. A statement of compliance with the N.C. Environmental Policy Act (N.C.G.S. 113A 1-10), if necessary. If the project involves expenditure of public funds or use of public lands, attach a statement documenting compliance with the North Carolina Environmental Policy Act. |

7. Certification and Permission to Enter on Land

I understand that any permit issued in response to this application will allow only the development described in the application. The project will be subject to the conditions and restrictions contained in the permit.

I certify that I am authorized to grant, and do in fact grant permission to representatives of state and federal review agencies to enter on the aforementioned lands in connection with evaluating information related to this permit application and follow-up monitoring of the project.

I further certify that the information provided in this application is truthful to the best of my knowledge.

Date 1/17/11

Print Name E. L. Lusk

Signature 

Please indicate application attachments pertaining to your proposed project.

DCM MP-2 Excavation and Fill Information

DCM MP-5 Bridges and Culverts

DCM MP-3 Upland Development

DCM MP-4 Structures Information

EXCAVATION and FILL

(Except for bridges and culverts)

Attach this form to Joint Application for CAMA Major Permit, Form DCM MP-1. Be sure to complete all other sections of the Joint Application that relate to this proposed project. Please include all supplemental information.

Describe below the purpose of proposed excavation and/or fill activities. All values should be given in feet.

| | Access Channel (NLW or NWL) | Canal | Boat Basin | Boat Ramp | Rock Groin | Rock Breakwater | Other (excluding shoreline stabilization) |
|---------------------|-----------------------------|-------|------------|-----------|------------|-----------------|---|
| Length | | | | | | | |
| Width | | | | | | | |
| Avg. Existing Depth | | | | | NA | NA | |
| Final Project Depth | | | | | NA | NA | |

1. EXCAVATION This section not applicable

- a. Amount of material to be excavated from below NHW or NWL in cubic yards. _____
- b. Type of material to be excavated. _____
- c. (i) Does the area to be excavated include coastal wetlands/marsh (CW), submerged aquatic vegetation (SAV), shell bottom (SB), or other wetlands (WL)? If any boxes are checked, provide the number of square feet affected.
 CW _____ SAV _____ SB _____
 WL _____ None _____
- d. High-ground excavation in cubic yards. _____
- (ii) Describe the purpose of the excavation in these areas:

2. DISPOSAL OF EXCAVATED MATERIAL This section not applicable

- a. Location of disposal area. _____
- b. Dimensions of disposal area. _____
- c. (i) Do you claim title to disposal area?
 Yes No NA
- d. (i) Will a disposal area be available for future maintenance?
 Yes No NA
- (ii) If no, attach a letter granting permission from the owner. _____
- (ii) If yes, where? _____
- e. (i) Does the disposal area include any coastal wetlands/marsh (CW), submerged aquatic vegetation (SAV), shell bottom (SB), or other wetlands (WL)? If any boxes are checked, provide the number of square feet affected.
 CW _____ SAV _____ SB _____
 WL _____ None _____
- f. (i) Does the disposal include any area in the water?
 Yes No NA
- (ii) If yes, how much water area is affected?

- (ii) Describe the purpose of disposal in these areas:

3. SHORELINE STABILIZATION

This section not applicable

(If development is a wood groin, use MP-4 – Structures)

- a. Type of shoreline stabilization:
 Bulkhead Riprap Breakwater/Sill Other: _____
- b. Length: 11'
Width: 33'
- c. Average distance waterward of NHW or NWL: 16'
- d. Maximum distance waterward of NHW or NWL: 22' max -----
 2 features to be utilized; 1 in NE quad @ 22'; one in NW quad @ 11'
- e. Type of stabilization material:
Class I Rip Rap w/ Filter Fabric
- f. (i) Has there been shoreline erosion during preceding 12 months?
 Yes No NA
 (ii) If yes, state amount of erosion and source of erosion amount information.
- g. Number of square feet of fill to be placed below water level.
 Bulkhead backfill _____ Riprap 308 sq ft
 Breakwater/Sill _____ Other _____
- h. Type of fill material.
Class I Rip Rap w/ filter fabric
- i. Source of fill material.
To be determined by contractor

4. OTHER FILL ACTIVITIES

This section not applicable

(Excluding Shoreline Stabilization)

- a. (i) Will fill material be brought to the site? Yes No NA
 If yes,
 (ii) Amount of material to be placed in the water _____
 (iii) Dimensions of fill area _____
 (iv) Purpose of fill _____
- b. (i) Will fill material be placed in coastal wetlands/marsh (CW), submerged aquatic vegetation (SAV), shell bottom (SB), or other wetlands (WL)? If any boxes are checked, provide the number of square feet affected.
 CW _____ SAV _____ SB _____
 WL _____ None _____
 (ii) Describe the purpose of the fill in these areas: _____

5. GENERAL

- a. How will excavated or fill material be kept on site and erosion controlled?
Adherence to design standards in sensitive watersheds.
- b. What type of construction equipment will be used (e.g., dragline, backhoe, or hydraulic dredge)?
Typical construction equipment includes crane, bulldozer, dump trucks, motor grader, etc.
- c. (i) Will navigational aids be required as a result of the project?
 Yes No NA
 (ii) If yes, explain what type and how they will be implemented.
- d. (i) Will wetlands be crossed in transporting equipment to project site? Yes No NA
 (ii) If yes, explain steps that will be taken to avoid or minimize environmental impacts.

1.17.11
 Date
 B-4413
 Project Name

Gregory Thorpe
 Applicant Name

 Applicant Signature

BRIDGES and CULVERTS

Attach this form to Joint Application for CAMA Major Permit, Form DCM MP-1. Be sure to complete all other sections of the Joint Application that relate to this proposed project. Please include all supplemental information.

1. BRIDGES This section not applicable

- a. Is the proposed bridge:
 - Commercial Public/Government Private/Community
- b. Water body to be crossed by bridge:

Broad Creek

- c. Type of bridge (construction material):

1 @ 40', 1 @ 50', 1 @ 40'-- 21" Cored Slab

- d. Water depth at the proposed crossing at NLW or NWL:

8.5'

- e. (i) Will proposed bridge replace an existing bridge? Yes No

If yes,

 - (ii) Length of existing bridge: 69'
 - (iii) Width of existing bridge: 28'
 - (iv) Navigation clearance underneath existing bridge: 6.8' from NWL
 - (v) Will all, or a part of, the existing bridge be removed?

(Explain) All the existing bridge and piers will be removed. Portion of existing road fill will be removed.

- f. (i) Will proposed bridge replace an existing culvert? Yes No

If yes,

 - (ii) Length of existing culvert: _____
 - (iii) Width of existing culvert: _____
 - (iv) Height of the top of the existing culvert above the NHW or NWL: _____
 - (v) Will all, or a part of, the existing culvert be removed?

(Explain)

- g. Length of proposed bridge: 130'
- i. Will the proposed bridge affect existing water flow? Yes No

If yes, explain: Longer bridge and removed fill will improve bridge conveyance and reduce velocities.

- h. Width of proposed bridge: 36'
- j. Will the proposed bridge affect navigation by reducing or increasing the existing navigable opening? Yes No

If yes, explain: Bridge opening will increase from existing 579 sq ft to 876 sq ft. Navigation clearance will be improved to 8.3' from NWL.

- k. Navigation clearance underneath proposed bridge: 8.3' from NWL
- l. Have you contacted the U.S. Coast Guard concerning their approval? Yes No

If yes, explain:

- m. Will the proposed bridge cross wetlands containing no navigable waters? Yes No

If yes, explain:

- n. Height of proposed bridge above wetlands: N/A

2. CULVERTS This section not applicable

- a. Number of culverts proposed: _____
- b. Water body in which the culvert is to be placed: _____

< Form continues on back >

- c. Type of culvert (construction material): _____

d. (i) Will proposed culvert replace an existing bridge? Yes No

If yes,

(ii) Length of existing bridge: _____

(iii) Width of existing bridge: _____

(iv) Navigation clearance underneath existing bridge: _____

(v) Will all, or a part of, the existing bridge be removed? (Explain)

f. Length of proposed culvert: _____

h. Height of the top of the proposed culvert above the NHW or NWL.

j. Will the proposed culvert affect navigation by reducing or increasing the existing navigable opening? Yes No

If yes, explain:

e. (i) Will proposed culvert replace an existing culvert? Yes No

If yes,

(ii) Length of existing culvert(s): _____

(iii) Width of existing culvert(s): _____

(iv) Height of the top of the existing culvert above the NHW or NWL: _____

(v) Will all, or a part of, the existing culvert be removed? (Explain)

g. Width of proposed culvert: _____

i. Depth of culvert to be buried below existing bottom contour.

k. Will the proposed culvert affect existing water flow? Yes No

If yes, explain:

3. EXCAVATION and FILL This section not applicable

a. (i) Will the placement of the proposed bridge or culvert require any excavation below the NHW or NWL? Yes No

If yes,

(ii) Avg. length of area to be excavated: _____

(iii) Avg. width of area to be excavated: _____

(iv) Avg. depth of area to be excavated: _____

(v) Amount of material to be excavated in cubic yards: _____

b. (i) Will the placement of the proposed bridge or culvert require any excavation within coastal wetlands/marsh (CW), submerged aquatic vegetation (SAV), shell bottom (SB), or other wetlands (WL)? If any boxes are checked, provide the number of square feet affected.

CW _____ SAV _____ SB _____

WL 470 None

(ii) Describe the purpose of the excavation in these areas:

Grassed ditch between proposed facility and driveway to convey water to creek.

c. (i) Will the placement of the proposed bridge or culvert require any high-ground excavation? Yes No

If yes,

(ii) Avg. length of area to be excavated: _____

(iii) Avg. width of area to be excavated: _____

(iv) Avg. depth of area to be excavated: _____

(v) Amount of material to be excavated in cubic yards: _____

- d. If the placement of the bridge or culvert involves any excavation, please complete the following:
- (i) Location of the spoil disposal area: Approved NCDOT site: offsite or as approved fill material to be utilized on project.

 - (ii) Dimensions of the spoil disposal area: 850 cu yds
 - (iii) Do you claim title to the disposal area? Yes No (If no, attach a letter granting permission from the owner.)
 - (iv) Will the disposal area be available for future maintenance? Yes No
 - (v) Does the disposal area include any coastal wetlands/marsh (CW), submerged aquatic vegetation (SAVs), other wetlands (WL), or shell bottom (SB)?
 CW SAV WL SB None
 If any boxes are checked, give dimensions if different from (ii) above.

 - (vi) Does the disposal area include any area below the NHW or NWL? ? Yes No
 If yes, give dimensions if different from (ii) above.

- e. (i) Will the placement of the proposed bridge or culvert result in any fill (other than excavated material described in Item d above) to be placed below NHW or NWL? Yes No
 If yes,
 (ii) Avg. length of area to be filled: _____
 (iii) Avg. width of area to be filled: _____
 (iv) Purpose of fill:

- f. (i) Will the placement of the proposed bridge or culvert result in any fill (other than excavated material described in Item d above) to be placed within coastal wetlands/marsh (CW), submerged aquatic vegetation (SAV), shell bottom (SB), or other wetlands (WL)? If any boxes are checked, provide the number of square feet affected.
 CW _____ SAV _____ SB _____
 WL 14,400 None
 (ii) Describe the purpose of the excavation in these areas:
 Fill in these areas due to widening of facility and construction of driveways (2).

- g. (i) Will the placement of the proposed bridge or culvert result in any fill (other than excavated material described in Item d above) to be placed on high-ground? Yes No
 If yes,
 (ii) Avg. length of area to be filled: 685 ft
 (iii) Avg. width of area to be filled: 45 ft
 (iv) Purpose of fill: Widening of facility and construction of driveways (2).

4. GENERAL

- a. Will the proposed project require the relocation of any existing utility lines? Yes No
 If yes, explain: See attached utility plans. Telephone and fiber optic utilities will use trenchless method (directional bore) to place their facilities under Broad Creek; staging area and access boxes for telephone and fiber optic utilities will be located outside wetland areas and buffer zone.

- b. Will the proposed project require the construction of any temporary detour structures? Yes No
 If yes, explain:

If this portion of the proposed project has already received approval from local authorities, please attach a copy of the approval or certification.

< Form continues on back >

c. Will the proposed project require any work channels? Yes No

If yes, complete Form DCM-MP-2.

d. How will excavated or fill material be kept on site and erosion controlled?

Adherence to design standards in sensitive watersheds.

e. What type of construction equipment will be used (for example, dragline, backhoe, or hydraulic dredge)?

Standard NCDOT road and bridge construction equipment will be employed, including but not limited to a crane, bulldozer, dump truck, and motor grader, pile driver, etc.

f. Will wetlands be crossed in transporting equipment to project site? Yes No

If yes, explain steps that will be taken to avoid or minimize environmental impacts.

g. Will the placement of the proposed bridge or culvert require any shoreline stabilization? Yes No

If yes, complete form MP-2, Section 3 for Shoreline Stabilization only.

1.17.11

Date

B-4413

Project Name

E.G. Lusk

Applicant Name

E.G. Lusk

Applicant Signature



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR.
SECRETARY

January 18, 2011

Mr. Earl De hoog
1108 Ross Road
Bath, NC 27808

Dear Landowner:

The North Carolina Department of Transportation is planning to replace bridge number 51 on US 264 over Broad Creek. The proposed project will replace the aging existing structure over Broad Creek. The project will replace the existing 69-foot bridge with a 130-foot bridge. The additional length will allow for the replacement of a substandard structure as well as improve the existing floodplain. This project crosses an Area of Environmental Concern, as defined by the North Carolina Division of Coastal Management (DCM), and must be approved by the DCM under provisions of the Coastal Area Management Act (CAMA). One of the prerequisites to this approval is that adjacent riparian landowners be given an opportunity to comment on the proposal. A vicinity map and site drawings are enclosed for your review.

The attached form is submitted to ensure that you have an opportunity to comment on the proposal. The work planned is depicted in the attached drawing. If you have **no** objections to the proposal, please return the form with your response within 30 days to this office. If you **do** have objections to the project, please forward your comments to:

Mr. Stephen Lane
N. C. Dept. of Environment & Natural Resources
Division of Coastal Management
400 Commerce Ave.
Morehead City, NC 28557

Thank you for your cooperation.

Sincerely,

A handwritten signature in black ink, appearing to read "E. J. Thorpe".

Gregory J. Thorpe, Ph.D.,
Environmental Management Director, PDEA

Enclosures

cc: Stephen Lane, NCDCM
File B-4413



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR.
SECRETARY

January 18, 2011

Mrs. Jane R. Leatherbee
14 Trout Bropok Trail
Kingston, MA 02364

Dear Landowner:

The North Carolina Department of Transportation is planning to replace bridge number 51 on US 264 over Broad Creek. The proposed project will replace the aging existing structure over Broad Creek. The project will replace the existing 69-foot bridge with a 130-foot bridge. The additional length will allow for the replacement of a substandard structure as well as improve the existing floodplain. This project crosses an Area of Environmental Concern, as defined by the North Carolina Division of Coastal Management (DCM), and must be approved by the DCM under provisions of the Coastal Area Management Act (CAMA). One of the prerequisites to this approval is that adjacent riparian landowners be given an opportunity to comment on the proposal. A vicinity map and site drawings are enclosed for your review.

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Mr. Stephen Lane
N. C. Dept. of Environment & Natural Resources
Division of Coastal Management
400 Commerce Ave.
Morehead City, NC 28557

Thank you for your cooperation.

Sincerely,

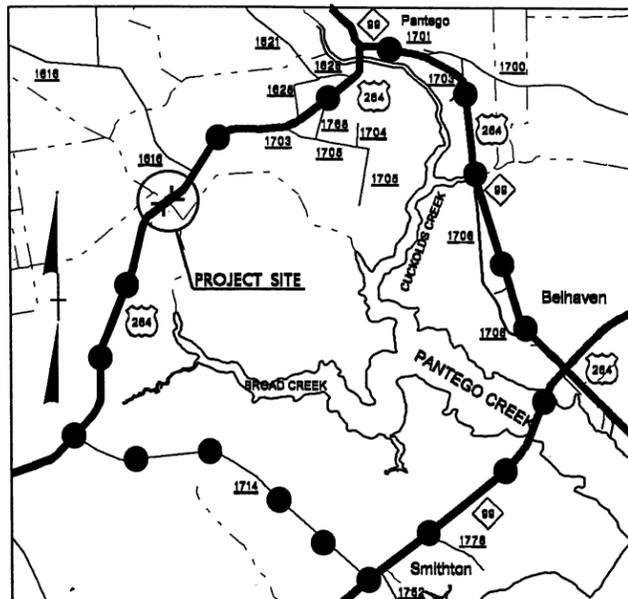
Gregory J. Thorpe, Ph.D.,
Environmental Management Director, PDEA

Enclosures

cc: Stephen Lane, NCDCM
File B-4413

TIP PROJECT: B-4413

See Sheet 1-A For Index of Sheets
See Sheet 1-B For Symbology



VICINITY MAP

●●●●● OFFSITE DETOUR

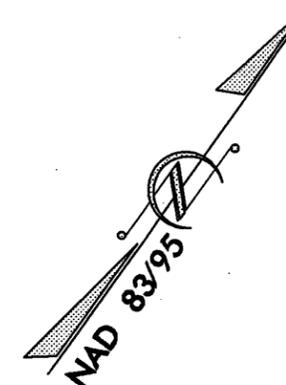
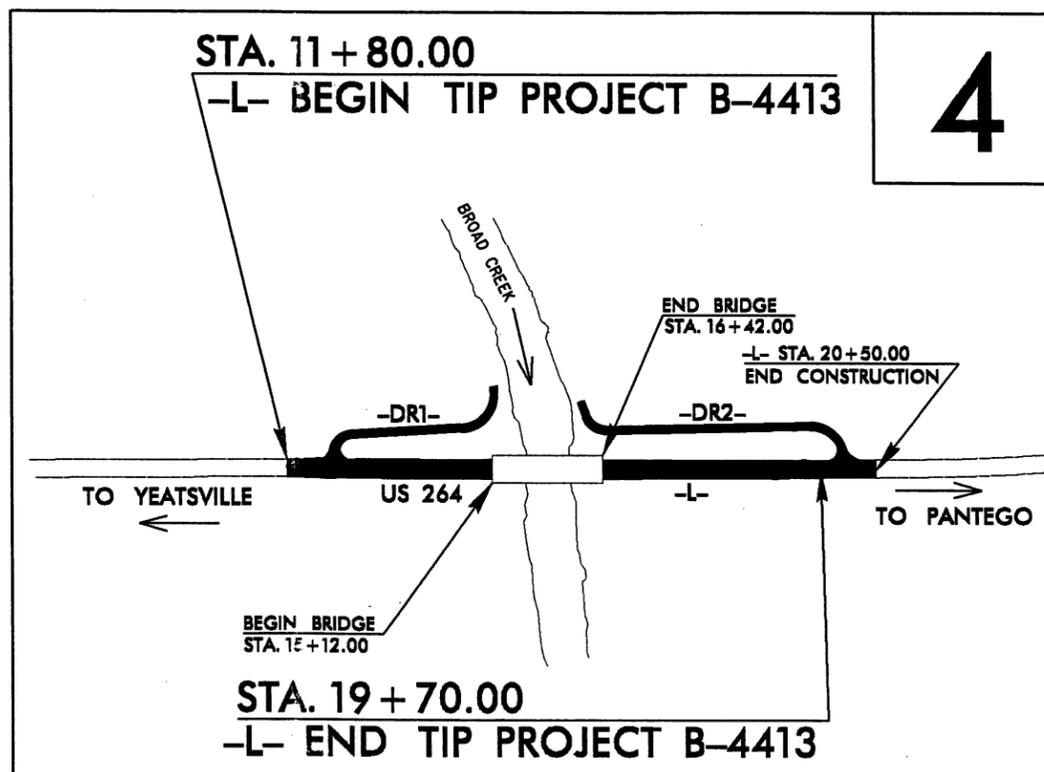
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

BEAUFORT COUNTY

LOCATION: BRIDGE NO. 51 OVER BROAD CREEK ON US 264

TYPE OF WORK: GRADING, PAVING, DRAINAGE, AND STRUCTURE

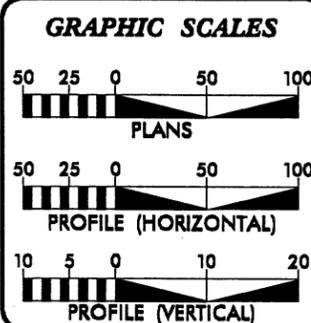
| STATE | STATE PROJECT REFERENCE NO. | SHEET NO. | TOTAL SHEETS |
|-----------------|-----------------------------|-------------|--------------|
| N.C. | B-4413 | 1 | |
| STATE PROJ. NO. | F.A. PROJ. NO. | DESCRIPTION | |
| 33690.1.1 | BRSTP-0264(24) | PE | |
| 33690.2.1 | BRSTP-0264(24) | ROW, UTIL | |
| | | | |
| | | | |
| | | | |



THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

CONTRACT:



DESIGN DATA

| | |
|------------------------|----------------------|
| ADT 2010 = | 3,792 |
| ADT 2030 = | 6,100 |
| DHV = | 10 % |
| D = | 60 % |
| T = | 7 % * |
| V = | 60 MPH |
| FUNC. CLASS. = | RURAL MINOR ARTERIAL |
| REGIONAL TIER | |
| *(TTST 3% + DUAL 4%) | |

PROJECT LENGTH

| | | |
|-------------------------------------|---|----------|
| LENGTH ROADWAY TIP PROJECT B-4413 | = | 0.125 MI |
| LENGTH STRUCTURE TIP PROJECT B-4413 | = | 0.025 MI |
| TOTAL LENGTH TIP PROJECT B-4413 | = | 0.150 MI |

Prepared in the Office of:
DIVISION OF HIGHWAYS
1000 Birch Ridge Dr., Raleigh, NC, 27610

2006 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
OCTOBER 1, 2010

LETTING DATE:
OCTOBER 18, 2011

BRENDA MOORE, PE
PROJECT ENGINEER

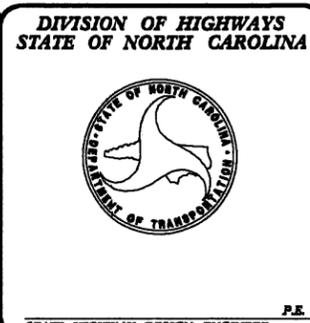
THAD F. DUNCAN, PE
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.



\$\$\$\$\$SYTIME\$\$\$\$\$
\$\$\$\$\$DGN\$\$\$\$\$
\$\$\$\$\$USERNAME\$\$\$\$\$

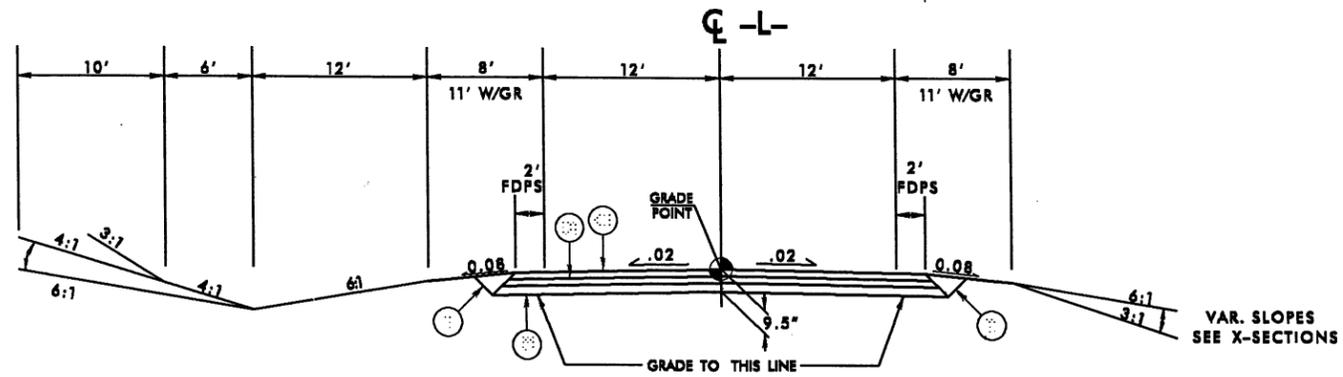
6/2/99

| PAVEMENT SCHEDULE (FINAL PAVEMENT DESIGN) | |
|--|--|
| C1 | PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE 89.8B, AT AN AVERAGE RATE OF 188 LBS. PER SQ. YD. IN EACH OF TWO LAYERS. |
| G2 | PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE 89.8B, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 2" IN DEPTH. |
| D1 | PROP. APPROX. 2 1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 288 LBS. PER SQ. YD. |
| D2 | PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 2 1/2" IN DEPTH OR GREATER THAN 4" IN DEPTH. |
| E1 | PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B26.0B, AT AN AVERAGE RATE OF 488 LBS. PER SQ. YD. |
| E2 | PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B26.0B, 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 6 1/2" IN DEPTH. |
| J1 | PROP. 6" AGGREGATE BASE COURSE. |
| T | EARTH MATERIAL. |
| U | EXISTING PAVEMENT. |
| W | VARIABLE DEPTH ASPHALT PAVEMENT (SEE STANDARD WEDGING DETAIL). |

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

| | |
|---|--------------------------|
| PROJECT REFERENCE NO. B-4413 | SHEET NO. 2 |
| ROADWAY DESIGN ENGINEER | PAVEMENT DESIGN ENGINEER |
| PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION | |

VAR. SLOPES
SEE X-SECTIONS

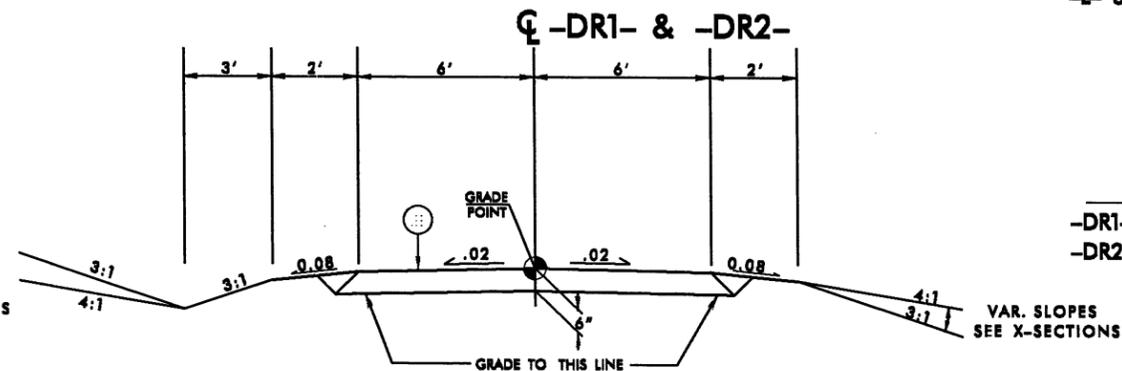


TYPICAL SECTION NO. 1

USE TYPICAL SECTION NO. 1

-L- STA. 11+80.00 TO -L- STA. 12+30.00 TRANSITION FROM EXIST.
 -L- STA. 12+30.00 TO -L- STA. 15+12.00 (BEGIN BRIDGE)
 -L- STA. 16+42.00 (END BRIDGE) TO -L- STA. 19+20.00
 -L- STA. 19+20.00 TO -L- STA. 19+70.00 TRANSITION TO EXIST.

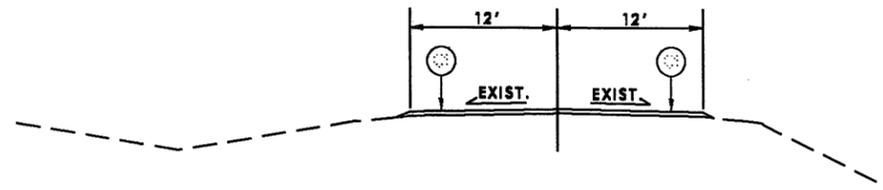
VAR. SLOPES
SEE X-SECTIONS



TYPICAL SECTION NO. 2

USE TYPICAL SECTION NO. 2

-DR1- STA. 10+25.00 TO -DR1- STA. 13+23.14
 -DR2- STA. 10+14.00 TO -DR2- STA. 14+30.37



TYPICAL SECTION NO. 3

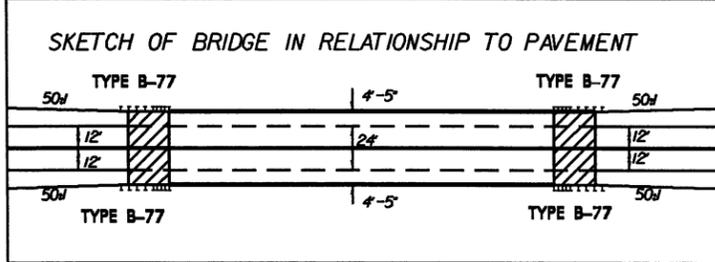
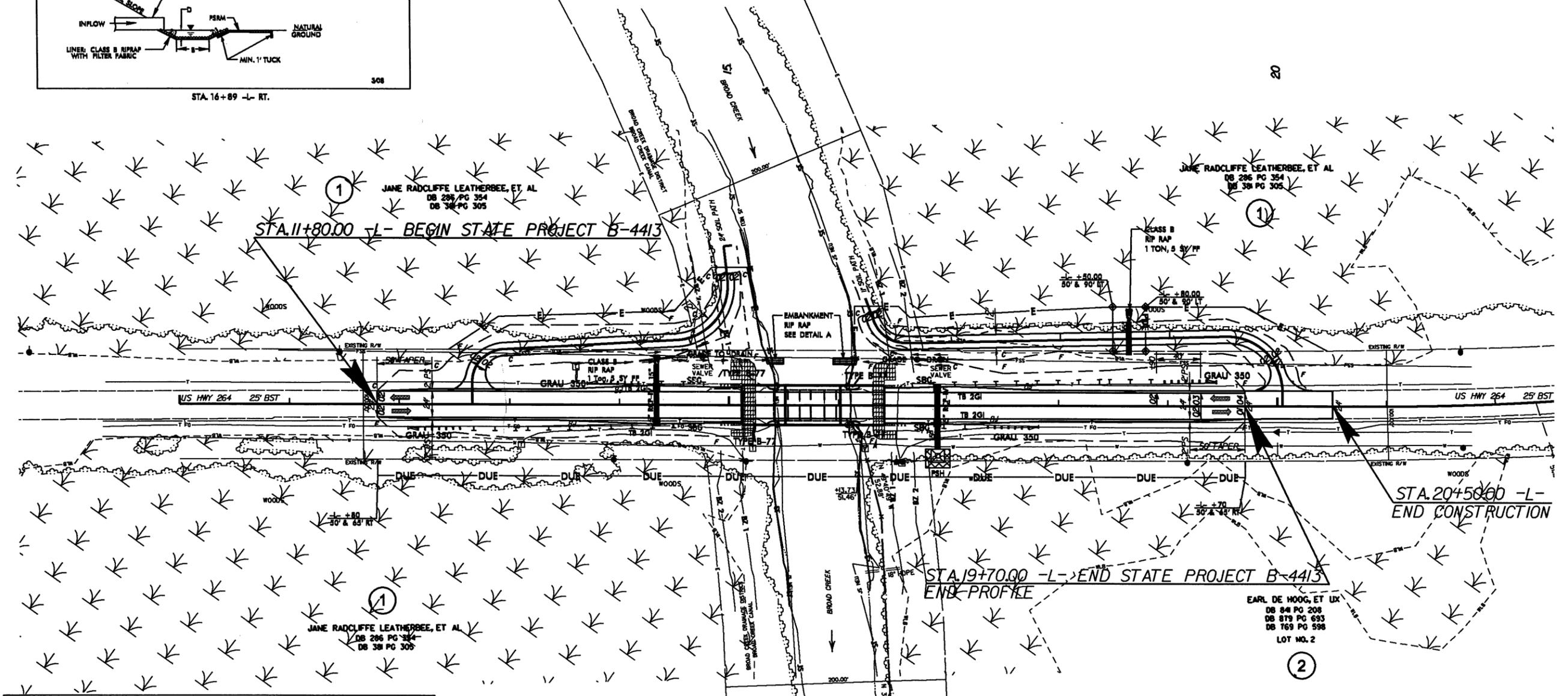
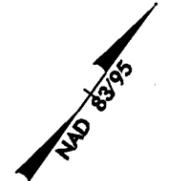
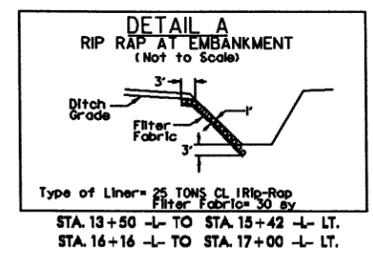
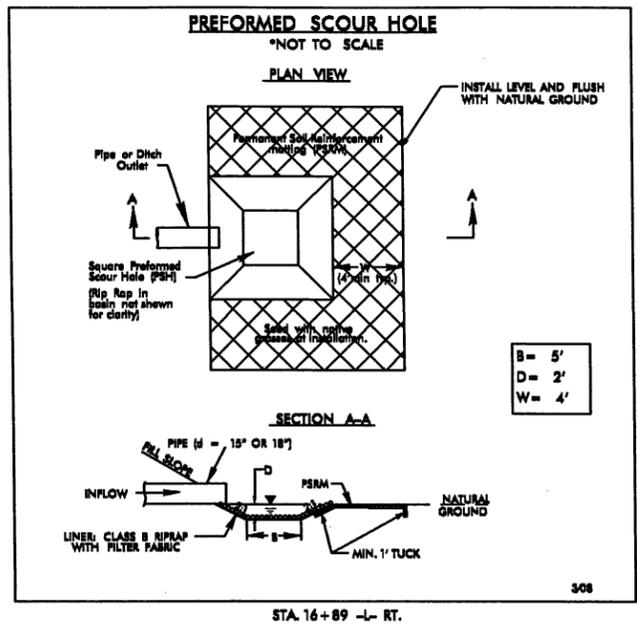
USE TYPICAL SECTION NO. 3

-L- STA. 19+70.00 TO -L- STA. 20+50.00

 DESIGN

B/17/99

| | |
|---|---------------------|
| PROJECT REFERENCE NO. B-4413 | SHEET NO. 4 |
| R/W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION | |



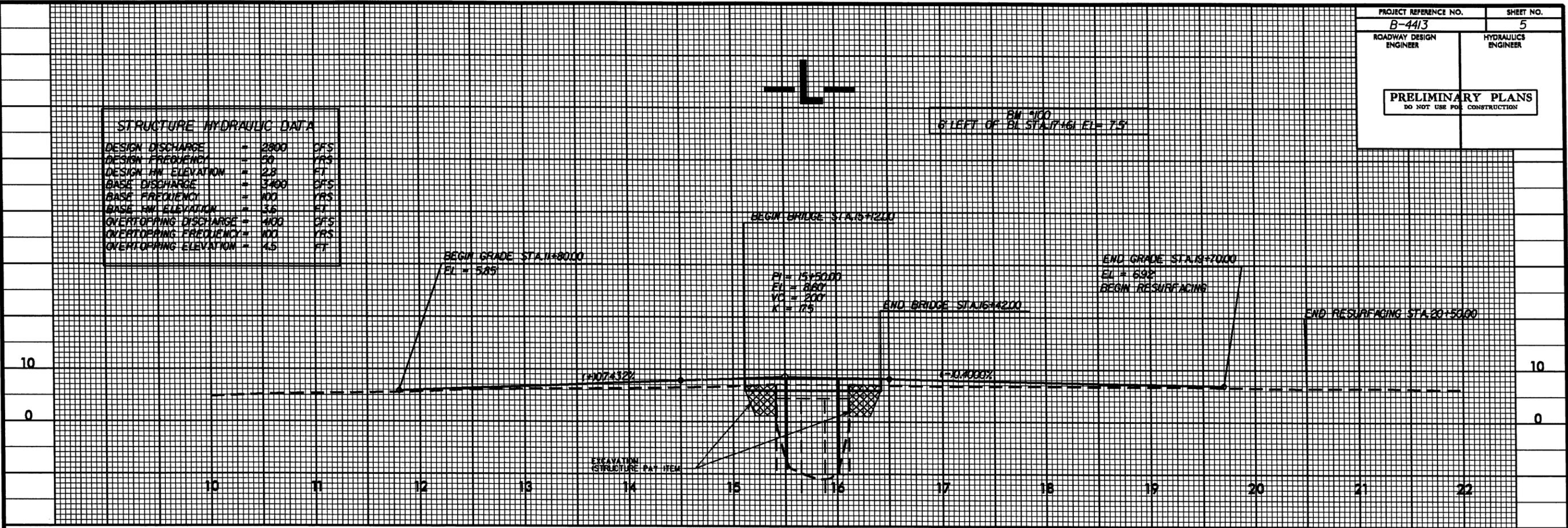
SBG: SHOULDER BERM GUTTER
 BEGIN SBG -L- STA. 14+30 TO BEGINNING OF BRIDGE LT. & RT.
 BEGIN SBG END OF BRIDGE TO -L- STA. 16+94 LT. & RT.

FOR -L- PROFILE SEE SHEET 5
 FOR -DR1- PROFILE SEE SHEET 5
 FOR -DR2- PROFILE SEE SHEET 5
 FOR STRUCTURES SEE SHEET S1 TO SX

5/28/99

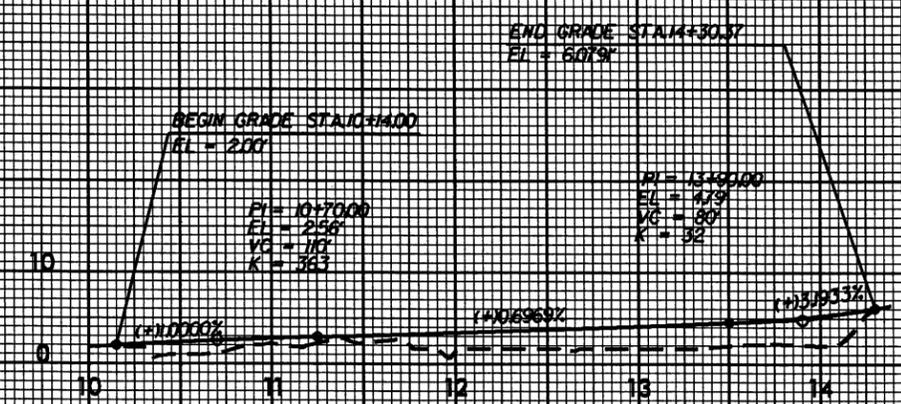
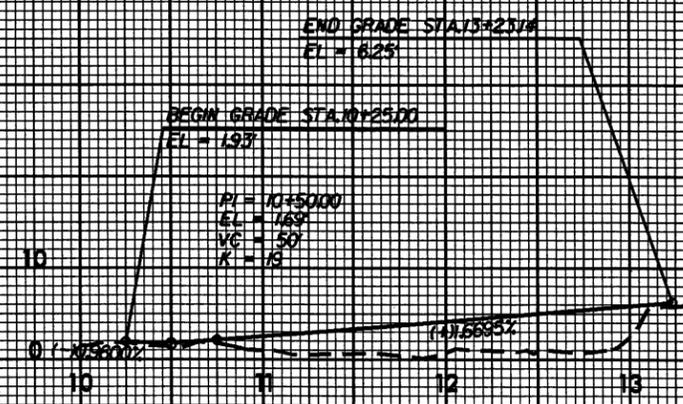
| | |
|---|---------------------|
| PROJECT REFERENCE NO. B-4413 | SHEET NO. 5 |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION | |

| STRUCTURE HYDRAULIC DATA | | |
|--------------------------|--------|-----|
| DESIGN DISCHARGE | = 2800 | CFS |
| DESIGN FREQUENCY | = 50 | YRS |
| DESIGN HW ELEVATION | = 2.8 | FT |
| BASE DISCHARGE | = 3400 | CFS |
| BASE FREQUENCY | = 100 | YRS |
| BASE HW ELEVATION | = 3.6 | FT |
| OVERTOPPING DISCHARGE | = 400 | CFS |
| OVERTOPPING FREQUENCY | = 100 | YRS |
| OVERTOPPING ELEVATION | = 4.5 | FT |



-DR1-

-DR2-



SYSTEMS DESIGN CONSULTANTS

See Sheet 1-A For Index of Sheets
See Sheet 1-B For Symbology

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

BEAUFORT COUNTY

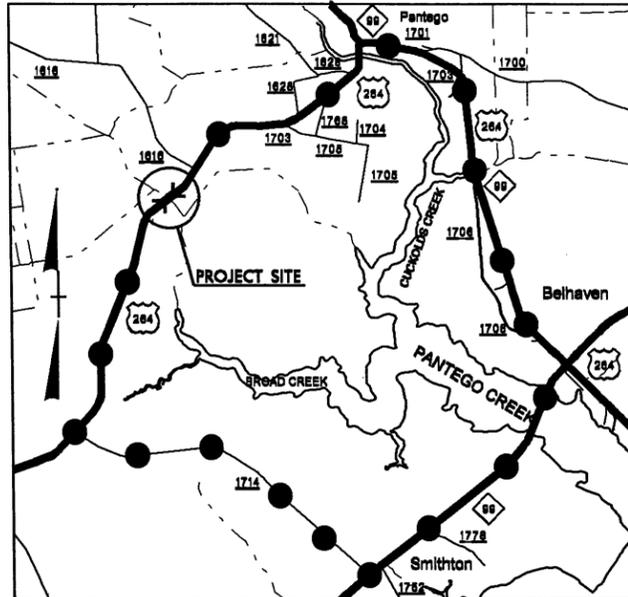
LOCATION: BRIDGE NO. 51 OVER BROAD CREEK ON US 264

TYPE OF WORK: GRADING, PAVING, DRAINAGE, AND STRUCTURE

| | | | |
|-----------------|-----------------------------|-------------|--------------|
| STATE | STATE PROJECT REFERENCE NO. | SHEET NO. | TOTAL SHEETS |
| N.C. | B-4413 | 1 | |
| STATE PROJ. NO. | F.A. PROJ. NO. | DESCRIPTION | |
| 33690.1.1 | BRSTP-0264(24) | PE | |
| 33690.2.1 | BRSTP-0264(24) | ROW, UTIL | |
| | | | |
| | | | |
| | | | |

Permit Drawing
Sheet 1 of 7

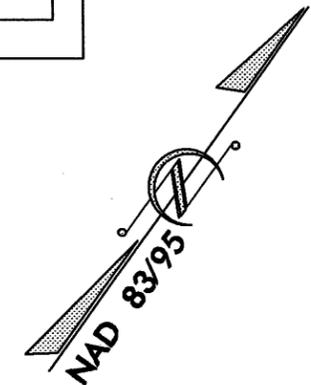
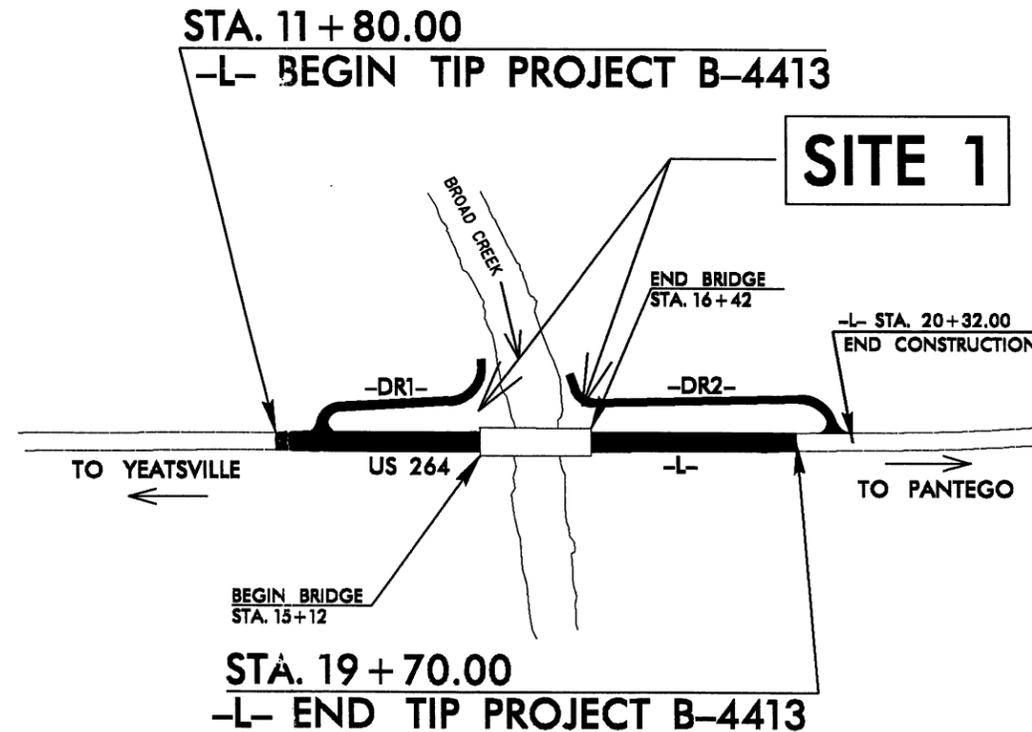
TIP PROJECT: B-4413



VICINITY MAP

●●●●● OFFSITE DETOUR

WETLAND /STREAM IMPACTS



THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD __.

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

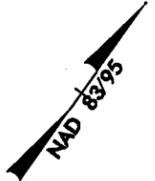
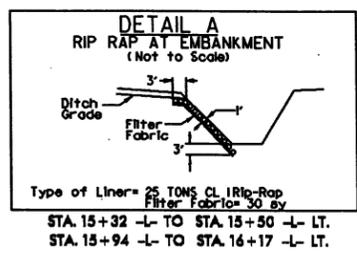
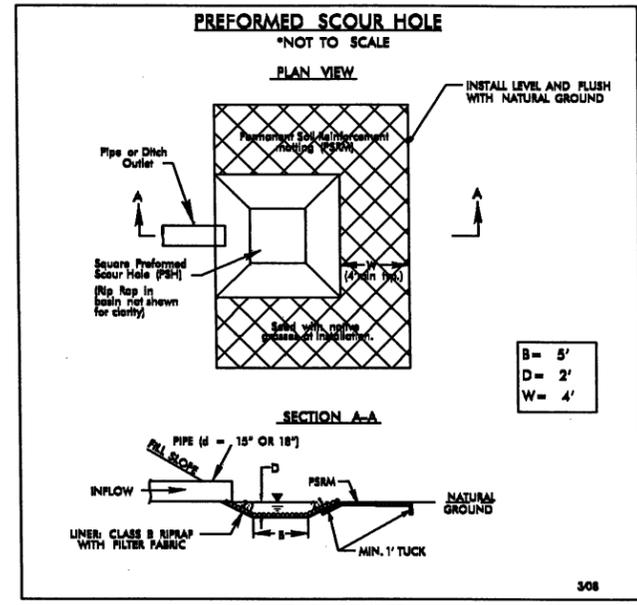
CONTRACT:

| | | | | | |
|--|---|--|---|---|---|
| <p>GRAPHIC SCALES</p> <p>50 25 0 50 100 PLANS</p> <p>50 25 0 50 100 PROFILE (HORIZONTAL)</p> <p>10 5 0 10 20 PROFILE (VERTICAL)</p> | <p>DESIGN DATA</p> <p>ADT 2010 = 3,792 ADT 2030 = 6,100 DHV = 10 % D = 60 % T = 7 % * V = 60 MPH FUNC. CLASS. = RURAL MINOR ARTERIAL *(TTST 3% + DUAL 4%)</p> | <p>PROJECT LENGTH</p> <p>LENGTH ROADWAY TIP PROJECT B-4413 = 0.125 MI LENGTH STRUCTURE TIP PROJECT B-4413 = 0.025 MI TOTAL LENGTH TIP PROJECT B-4413 = 0.150 MI</p> | <p>Prepared in the Office of: DIVISION OF HIGHWAYS 1000 Birch Ridge Dr., Raleigh NC, 27610</p> <p>2006 STANDARD SPECIFICATIONS</p> <p>RIGHT OF WAY DATE: OCTOBER 15, 2010</p> <p>LETTING DATE: OCTOBER 18, 2011</p> <p>BRENDA MOORE, PE PROJECT ENGINEER</p> <p>THAD F. DUNCAN, PE PROJECT DESIGN ENGINEER</p> | <p>HYDRAULICS ENGINEER</p> <p>SIGNATURE: _____ P.E.</p> <p>ROADWAY DESIGN ENGINEER</p> <p>SIGNATURE: _____ P.E.</p> | <p>DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA</p>  <p>STATE HIGHWAY DESIGN ENGINEER P.E.</p> |
|--|---|--|---|---|---|

09/08/99
 SYSTEMS
 DESIGN
 USERNAME

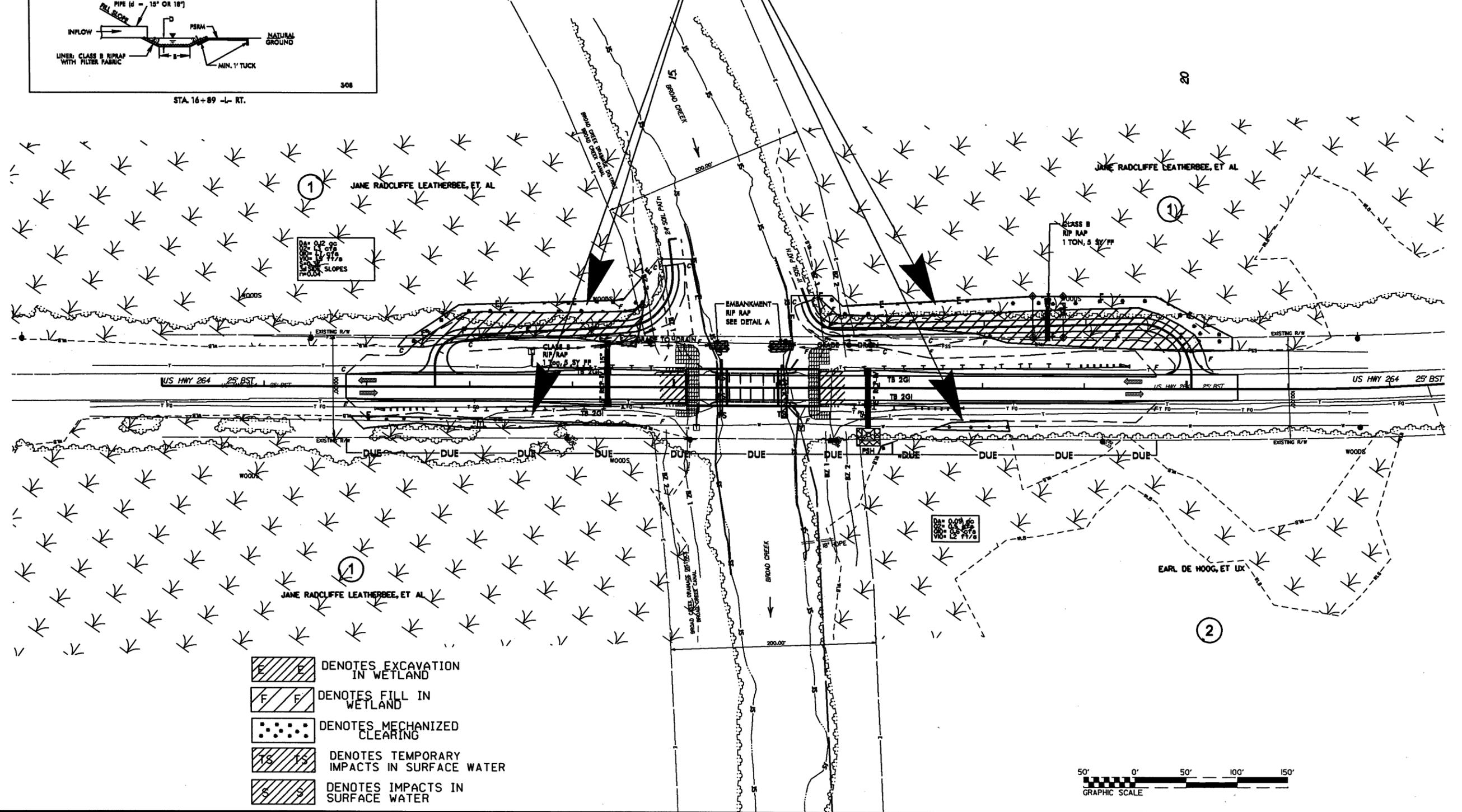
8/17/99

| | |
|---|---------------------|
| PROJECT REFERENCE NO. B-4413 | SHEET NO. 4 |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION | |



SITE 1

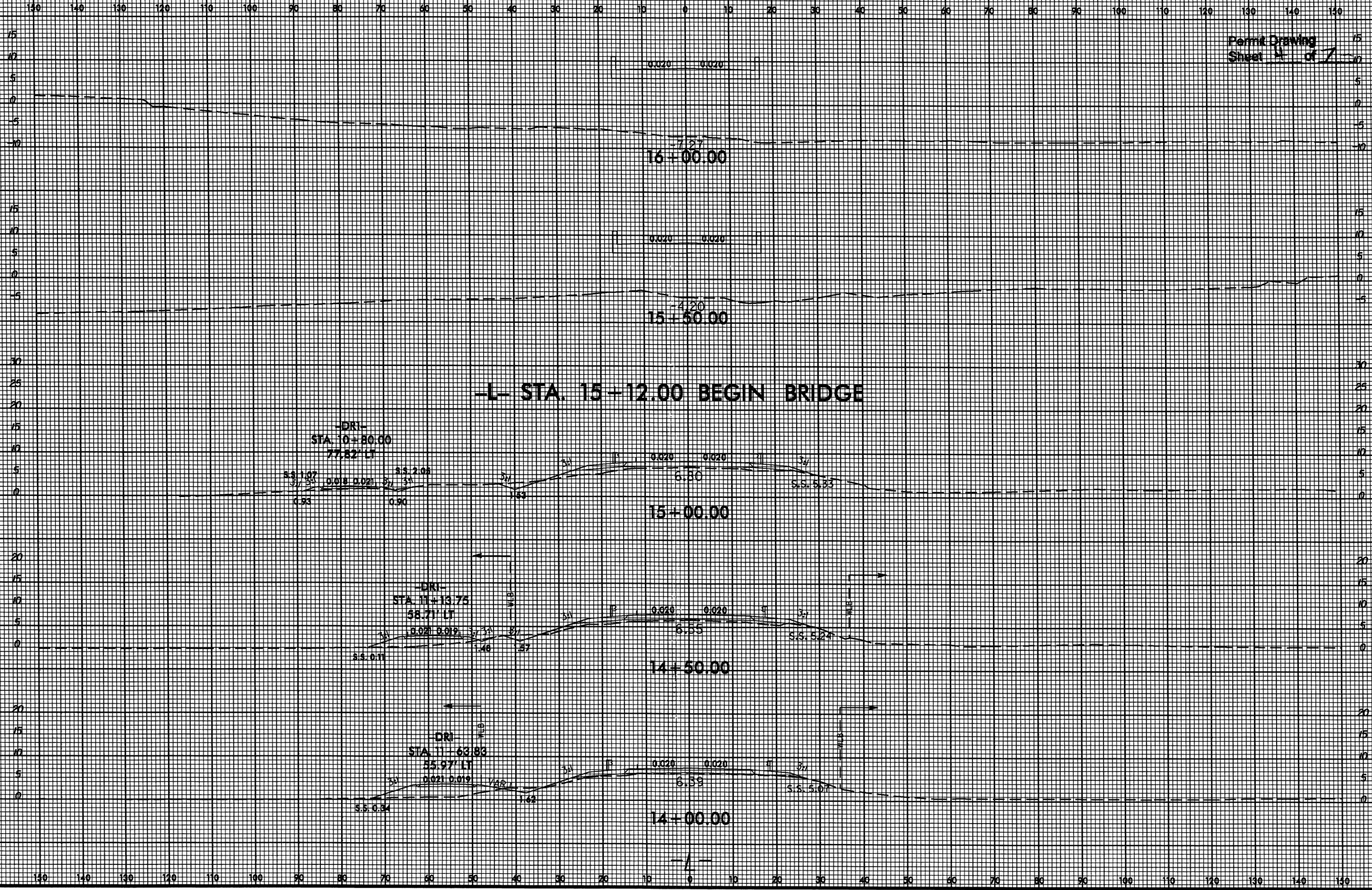
Permit Drawing
Sheet 2 of 7



NOVEMBER 30, 2010
R:\Hydr-eulics\PERMITS\Environmental\Drawings\b4413_hyd_pr_m_wetmpacts.dgn

8/23/99

Permit Drawing
Sheet 4 of 7



-L- STA. 15+12.00 BEGIN BRIDGE

-DRI-
STA 10+80.00
77.82' LT

3.7
0.018
0.021
3.1

15+00.00

-DRI-
STA 11+13.75
58.71' LT

3.1
3.021
3.012
3.1
3.1

14+50.00

-DRI-
STA 11+63.83
55.97' LT

3.1
0.021
0.019
3.1

14+00.00

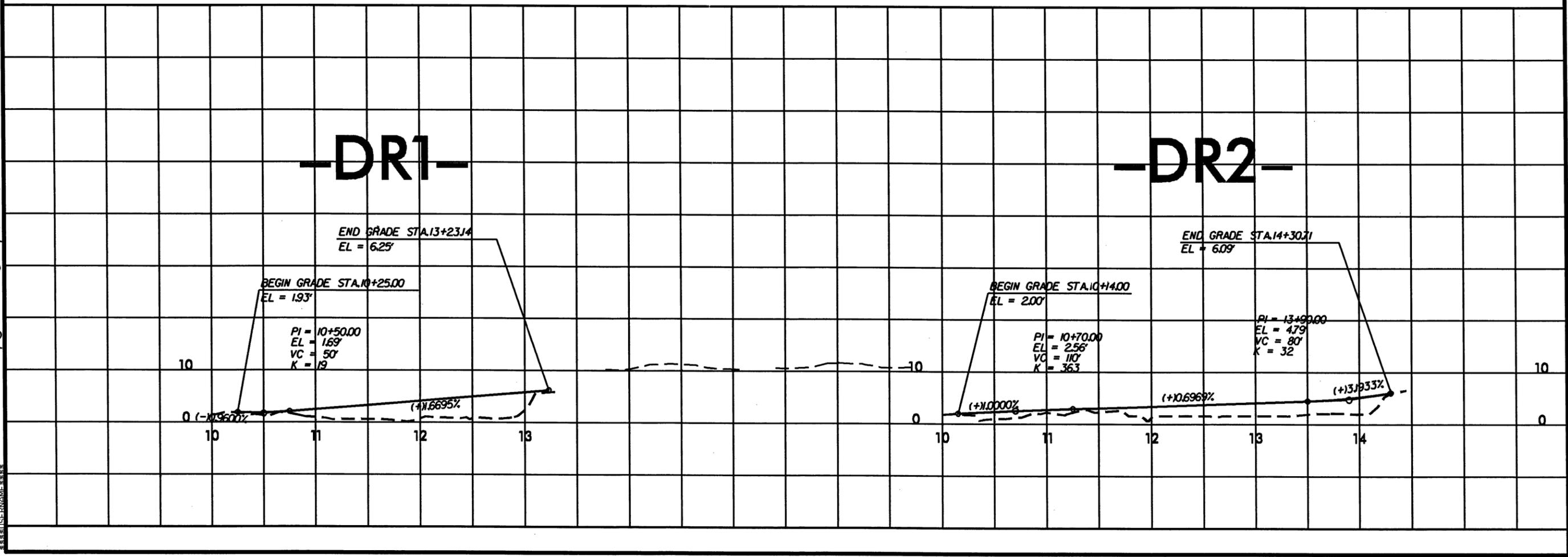
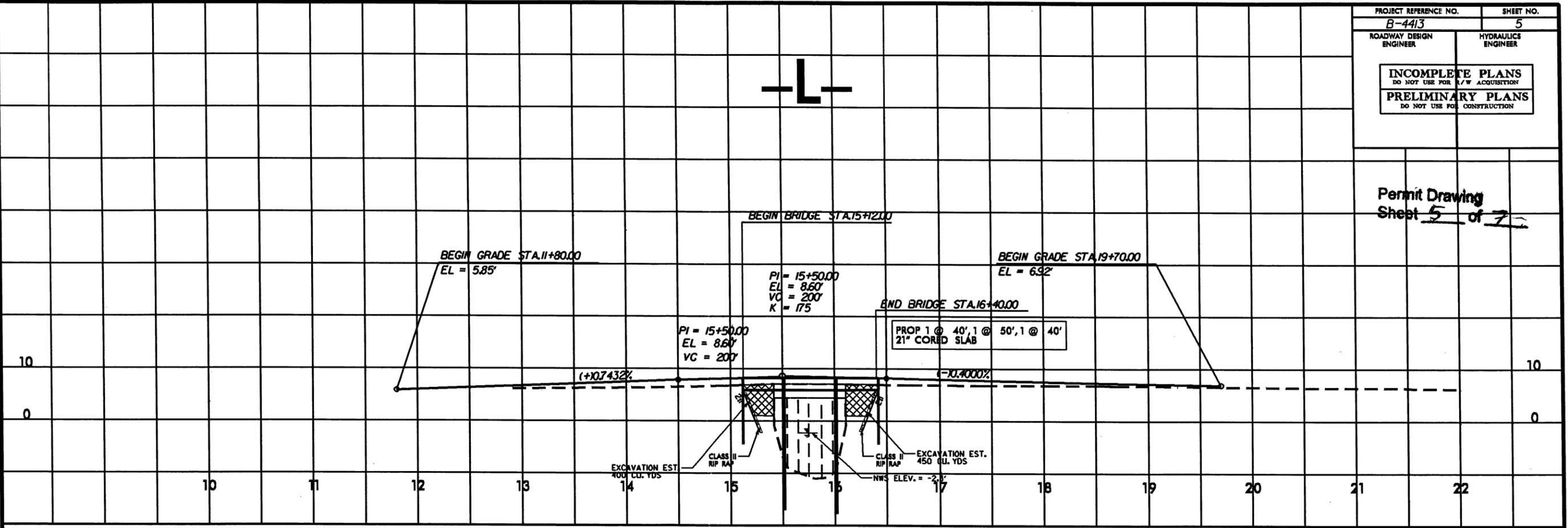
NOV. 30 2010

SUSTAINABLE
DESIGN

5/28/99

| | |
|--|---------------------|
| PROJECT REFERENCE NO. B-4413 | SHEET NO. 5 |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION | |

Permit Drawing
Sheet 5 of 7



Nov. 30, 2010

SYSTIME
EDEN
SHERMONE

PROPERTY OWNERS
NAMES AND ADDRESSES

| PARCEL NO. | NAMES | ADDRESSES |
|-------------------|--------------------------------|---|
| 1 | Mrs. Jane R. Leatherbee | 14 Trout Bropok Trail Kingston, MA 02364 |
| 2 | Mr. Earl Dehoog | 1108 Ross Road Bath, NC 27808 |

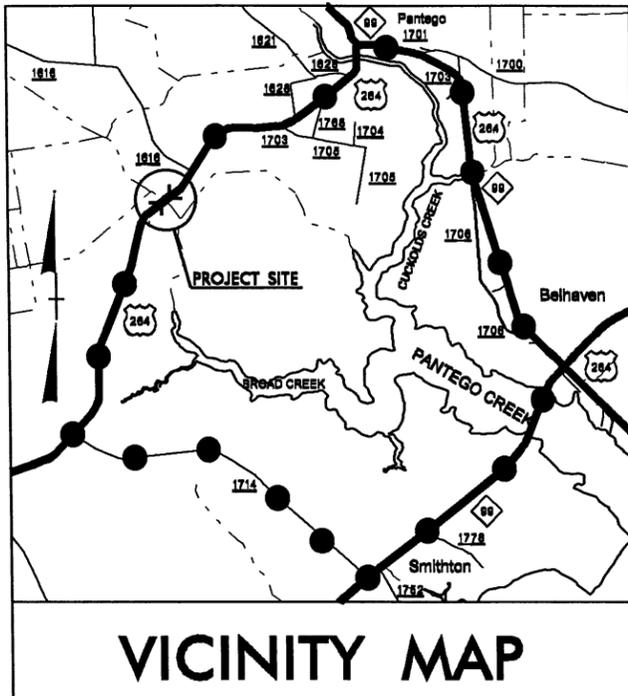
Permit Drawing
Sheet 6 of 7

NCDOT
DIVISION OF HIGHWAYS
BEAUFORT COUNTY
PROJECT: 33690.1.1 (B-4413)
REPLACE BR[#] 51 ON
US 264 OVER BROAD CREEK

SHEET OF

CONTRACT: TIP PROJECT: B-4413

See Sheet 1-A For Index of Sheets
See Sheet 1-B For Symbology



●●●●● OFFSITE DETOUR

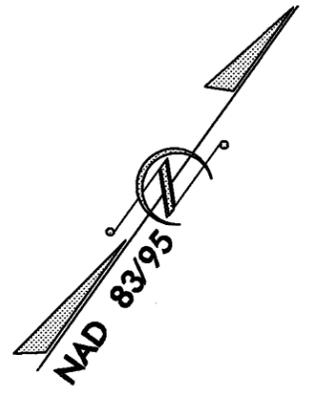
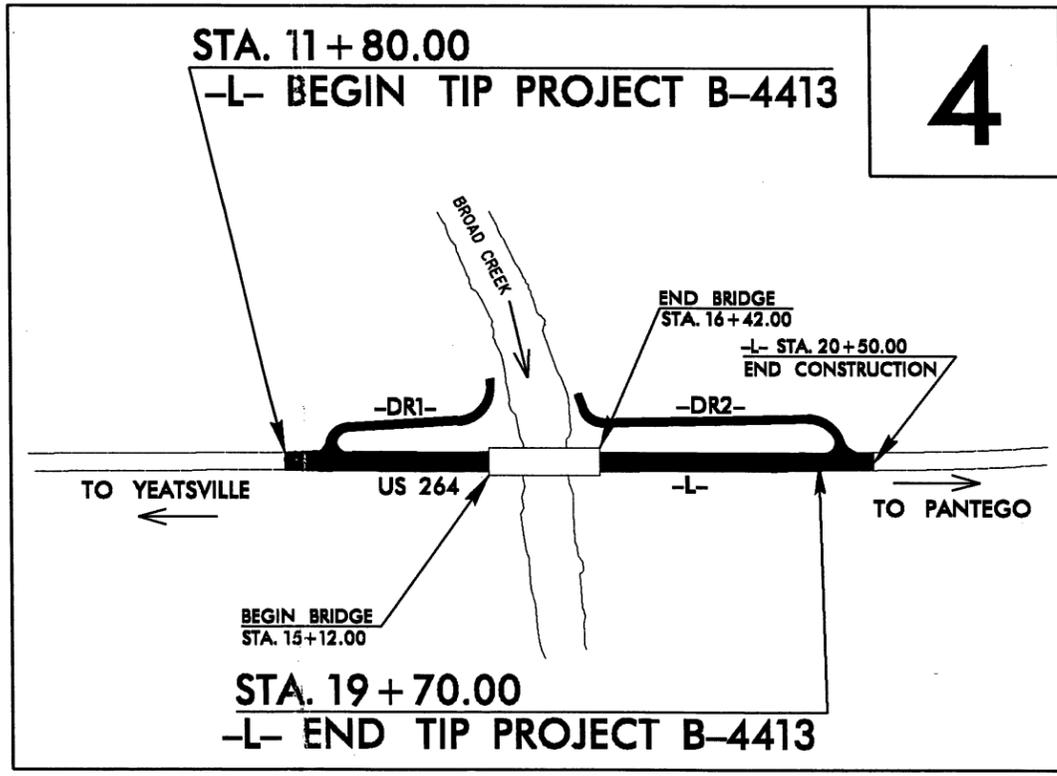
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
BEAUFORT COUNTY

LOCATION: BRIDGE NO. 51 OVER BROAD CREEK ON US 264

TYPE OF WORK: GRADING, PAVING, DRAINAGE, AND STRUCTURE

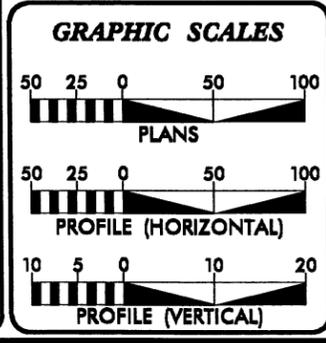
| STATE | STATE PROJECT REFERENCE NO. | SHEET NO. | TOTAL SHEETS |
|-----------------|-----------------------------|-------------|--------------|
| N.C. | B-4413 | 1 | |
| STATE PROJ. NO. | F.A. PROJ. NO. | DESCRIPTION | |
| 33690.1.1 | BRSTP-0264(24) | PE | |
| 33690.2.1 | BRSTP-0264(24) | ROW, UTIL | |
| | | | |
| | | | |
| | | | |

Utility Permit Drawing
Sheet 1 of 3



THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



DESIGN DATA

| | |
|-----------------------|----------------------|
| ADT 2010 = | 3,792 |
| ADT 2030 = | 6,100 |
| DHV = | 10 % |
| D = | 60 % |
| T = | 7 % * |
| V = | 60 MPH |
| FUNC. CLASS. = | RURAL MINOR ARTERIAL |
| REGIONAL TIER | |
| *(TTST 3% + DUAL 4%) | |

PROJECT LENGTH

| | | |
|-------------------------------------|---|----------|
| LENGTH ROADWAY TIP PROJECT B-4413 | = | 0.125 MI |
| LENGTH STRUCTURE TIP PROJECT B-4413 | = | 0.025 MI |
| TOTAL LENGTH TIP PROJECT B-4413 | = | 0.150 MI |

Prepared in the Office of:
DIVISION OF HIGHWAYS
1000 Birch Ridge Dr., Raleigh NC, 27610

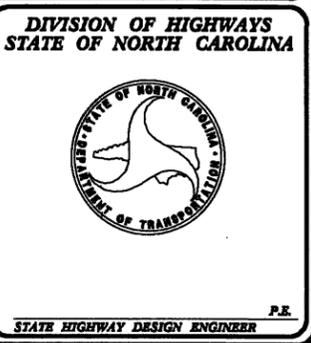
| | |
|------------------------------|---|
| 2006 STANDARD SPECIFICATIONS | |
| RIGHT OF WAY DATE: | BRENDA MOORE, PE PROJECT ENGINEER |
| OCTOBER 1, 2010 | |
| LETTING DATE: | THAD F. DUNCAN, PE PROJECT DESIGN ENGINEER |
| OCTOBER 18, 2011 | |

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

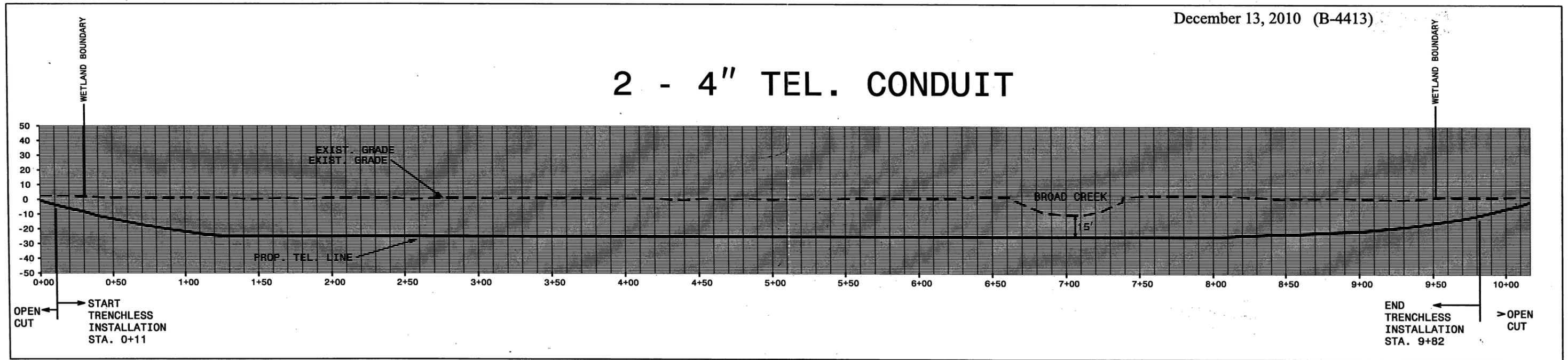
SIGNATURE: _____ P.E.



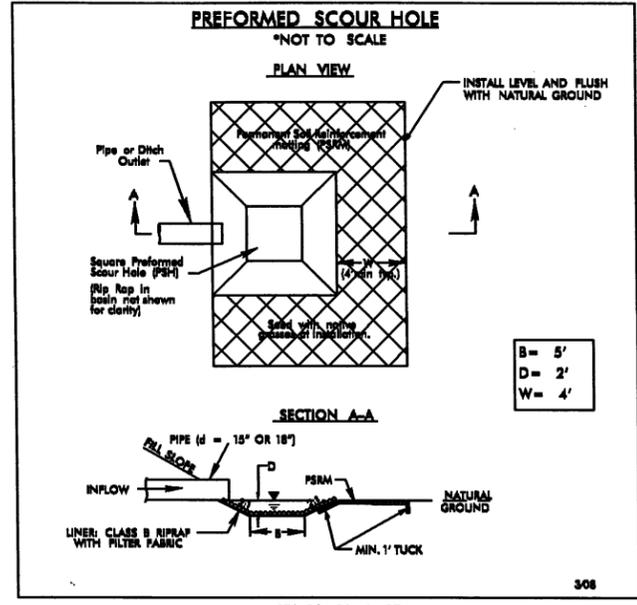
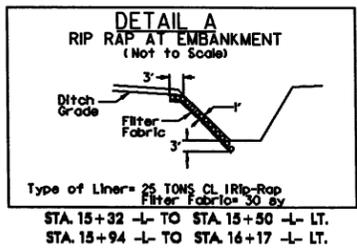
\$\$\$SYTIME\$\$\$
\$\$\$DUNCAN\$\$\$
\$\$\$SUSSENA\$\$\$

December 13, 2010 (B-4413)

2 - 4" TEL. CONDUIT

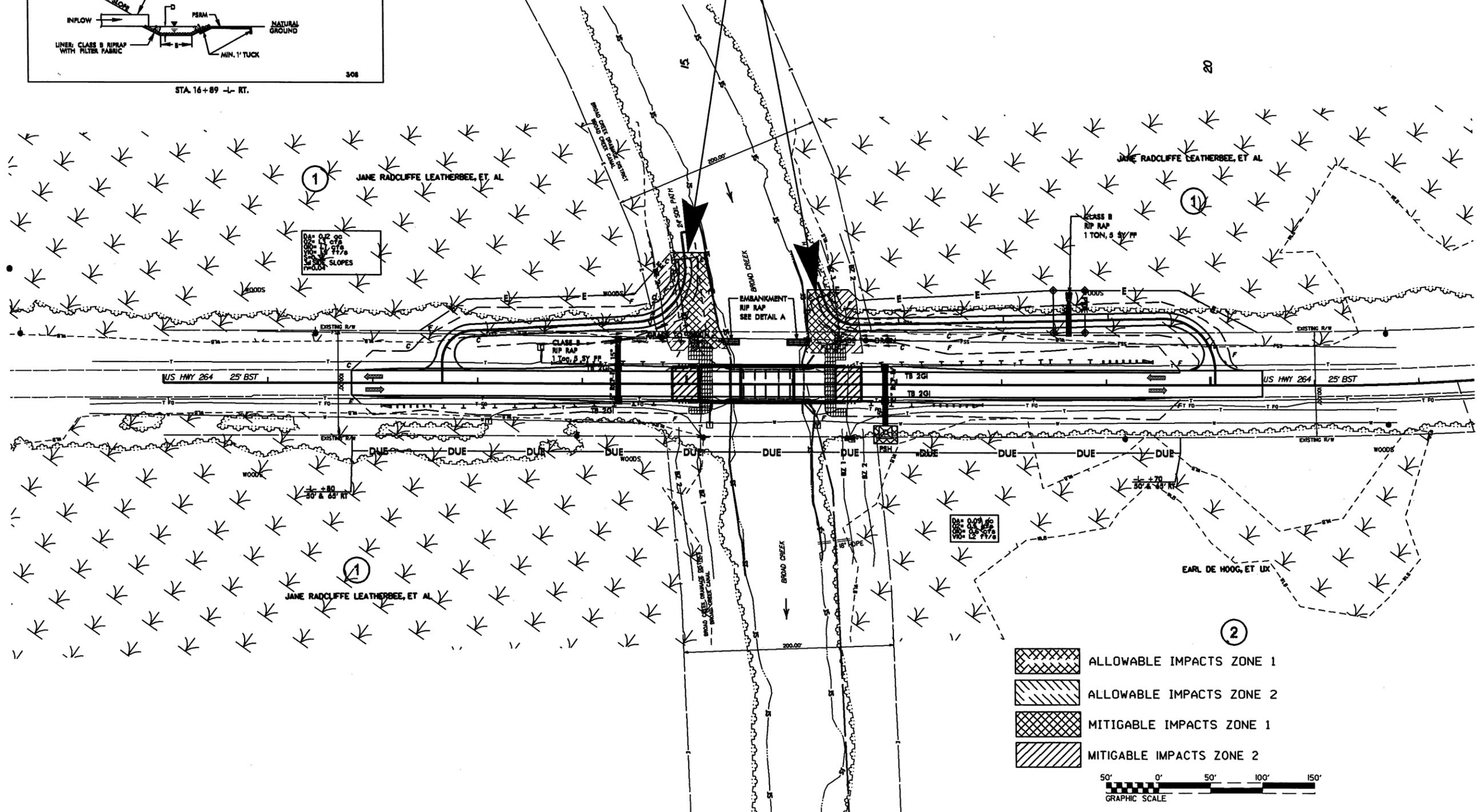


| | |
|---|---------------------|
| PROJECT REFERENCE NO. B-4413 | SHEET NO. 4 |
| R/W SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION | |



SITE 1

Buffer Drawing
Sheet 2 of 6

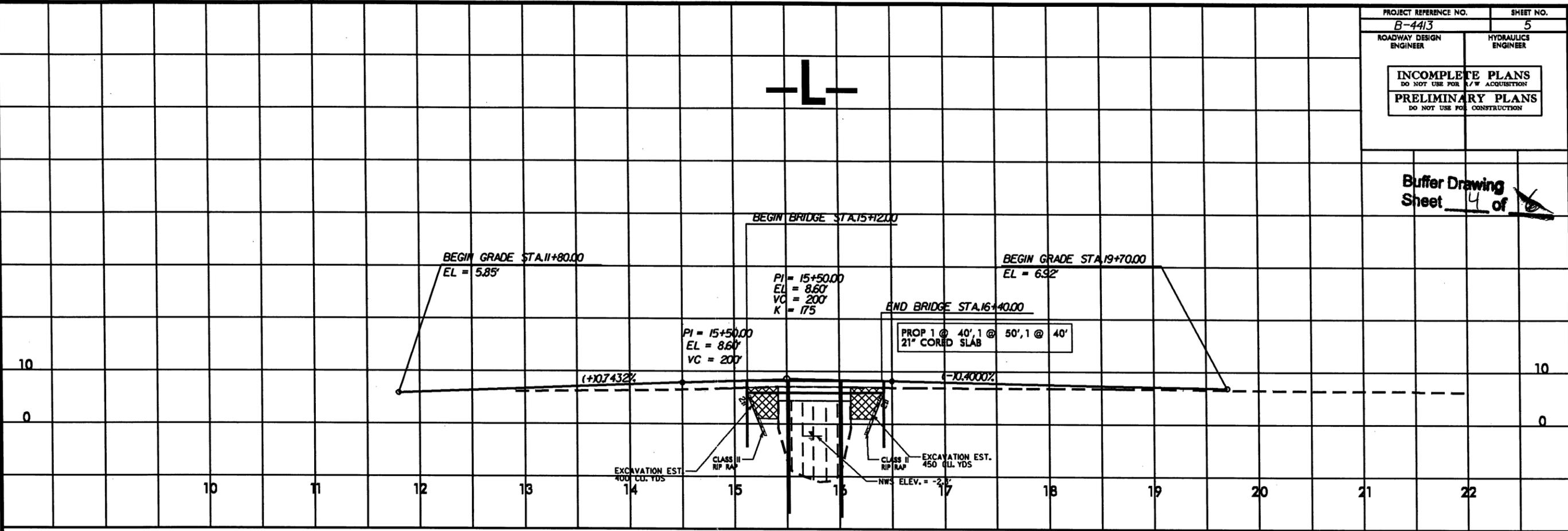


JANUARY 10, 2011 PERMITS_Environmental\Drawings\4413_hyd.prm_bur_impacts.dgn
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SYSTEMS DESIGN
 HYDRAULICS ENGINEERING

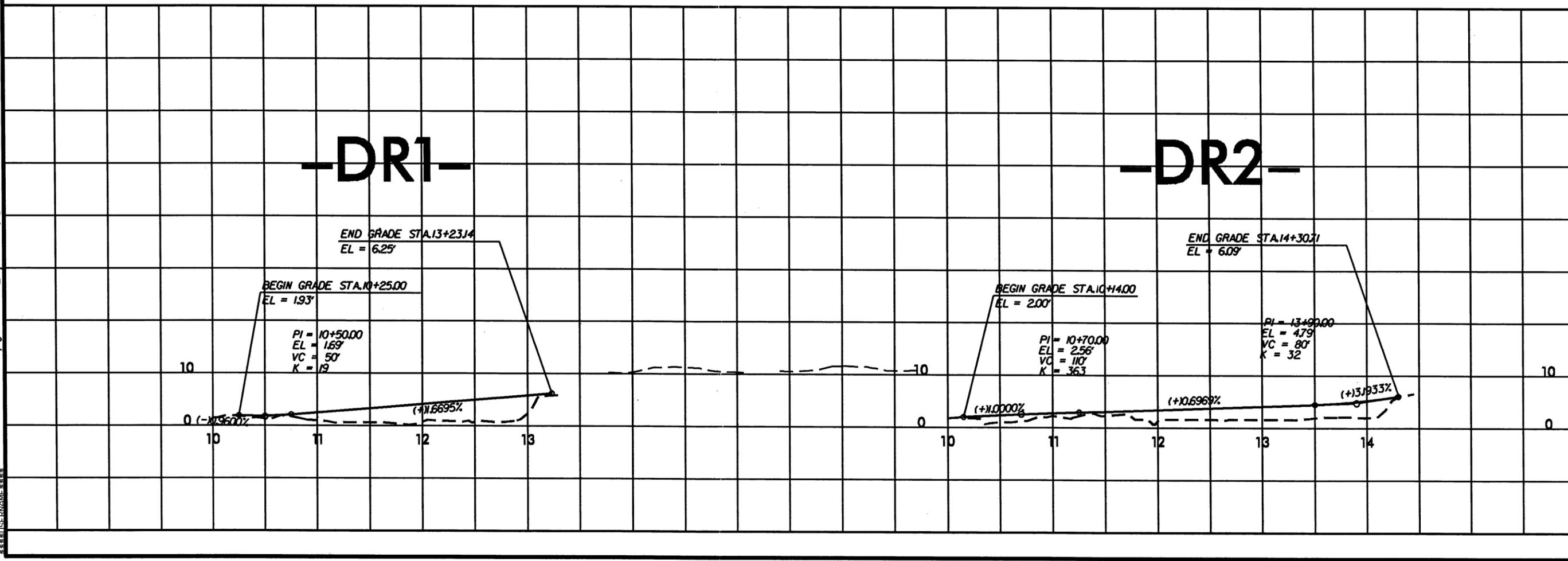
Buffer Drawing Sheet 4 of 4

5/28/99



-DR1-

-DR2-



Nov. 3, 2010

 SYSTEMS ENGINEER
