



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR.
SECRETARY

May 12, 2011

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

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

Dear Sirs:

Subject: Application for Section 404 General Permit 31, Section 401 Water Quality Certification, and CAMA Major Development Permit for the replacement of Bridge #3 over Tulls Creek on SR 1232 in Currituck County. State Project No. 8.2040501. Federal Aid Project Number BRZ-1232(4). Debit \$400 from WBS 33730.1.1.TIP No. B-4494.

The North Carolina Department of Transportation (NCDOT), Division of Highways, in consultation with the Federal Highway Administration (FHWA), proposes to replace Bridge No. 3 in Currituck County. The proposed let date for the project is January 17, 2012; however, the let date may advance as additional funds become available.

Please find enclosed a Pre-Construction Notification (PCN) form, permit drawings, utility drawings/narrative, roadway plans, North Carolina Division of Coastal Management Major Permit Forms 1, 2, and 5, stormwater management plan, EEP Mitigation Acceptance Letter, and adjacent riparian landowner certified mail receipts. A Categorical Exclusion (CE) was completed for this project on November 15, 2007, and distributed shortly thereafter. Additional copies are available upon request.

Regulatory Approvals

CAMA: NCDOT requests that the proposed work be authorized under a Coastal Area Management Act Major Development Permit. Adjacent riparian landowner return receipts will be forwarded once they become available. Authorization to debit the \$400 Permit Application Fee from WBS Element 33730.1.1 is hereby given.


Section 404 Permit: All aspects of this project are being processed by the Federal Highway Administration as a "Categorical Exclusion" in accordance with 23 CFR 771.115(b). The NCDOT requests that a General Permit 198200031 authorize these activities.

Section 401 Permit: We anticipate 401 General Certification number 3820 will apply to this project. NCDOT is providing three copies of this application to the North Carolina Department of Environmental and Natural Resources, Division of Water Quality, for their approval.

A copy of this permit application and its distribution list 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 Mr. Chris Manley, at 919-707-6135.

Sincerely,

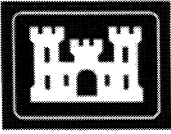


for

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

cc:

NCDOT Permit Application Standard Distribution List



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:	or General Permit (GP) number: 198200031	
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 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 3 over Tulls Creek on SR 1232
2b. County:	Currituck
2c. Nearest municipality / town:	Moyock
2d. Subdivision name:	<i>not applicable</i>
2e. NCDOT only, T.I.P. or state project no:	B-4494

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) 707-6135
3g. Fax no.:	(919) 212-5785
3h. Email address:	cdmanley@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: 36.466900 (DD.DDDDDD) Longitude: - 76.076000 (-DD.DDDDDD)
1c. Property size:	1 acre
2. Surface Waters	
2a. Name of nearest body of water (stream, river, etc.) to proposed project:	Tulls Creek
2b. Water Quality Classification of nearest receiving water:	C NSW
2c. River basin:	Pasquotank
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: Currently there is an existing roadway and bridge on site, and the surrounding area is marsh, forested and residential.	
3b. List the total estimated acreage of all existing wetlands on the property: 0.5	
3c. List the total estimated linear feet of all existing streams (intermittent and perennial) on the property: 100	
3d. Explain the purpose of the proposed project: NCDOT Bridge Maintenance Unit records indicate Bridge No. 3 has a sufficiency rating of 29 1 out of a possible 100 for a new structure, with a substructure rating of 4 out of 9. Therefore, NCDOT proposes to replace Bridge No. 3 with a new bridge.	
3e. Describe the overall project in detail, including the type of equipment to be used: The project involves replacing a 90-foot bridge with a 120-foot, triple-span bridge on the existing alignment with an off-site detour. Standard road building equipment, such as trucks, dozers, and cranes will be used.	
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: Requested July 2005, but never received the written JD.	<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 type="checkbox"/> Final
4c. If yes, who delineated the jurisdictional areas? Name (if known): Daniel P. Ingram and Marco J. Hilhorst, PWS	Agency/Consultant Company: W. K. Dickson, Inc. Other:
4d. If yes, list the dates of the Corps jurisdictional determinations or State determinations and attach documentation.	
5. Project History	
5a. Have permits or certifications been requested or obtained for this project (including all prior phases) in the past?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
5b. If yes, explain in detail according to "help file" instructions. State Stormwater Permit has been requested but not received.	

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 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	Coastal	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ	0.06	
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	0.02	
Site 2 <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 3 <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 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		
2g. Total wetland impacts					0.08 Permanent	
2h. Comments: There will be 0.10 acre of hand clearing for construction equipment clearances.						
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 (acre)
Site 1 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Fill	Tulls Creek	<input checked="" type="checkbox"/> PER <input type="checkbox"/> INT	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	90	0.22
Site 2 <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 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					0.22 Perm 0 Temp	

3i. Comments:								
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						0 Permanent 0 Temporary		
4g. Comments: N/A								
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 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 type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No		
B2 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No		
B3 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No		
6h. Total buffer impacts				0	0
6i. Comments: N/A					

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 30 feet longer than the existing bridge; the bridge will be constructed with cored slab units; 1.5:1 fill slopes on fill in canals to minimize impacts to surface waters.

1b. Specifically describe measures taken to avoid or minimize the proposed impacts through construction techniques.

Top down construction will be implemented, and there will be no workpads or causeways. An off-site detour will be used. There will be an in-water work moratorium from February 15 to June 15 to minimize impacts to anadromous fish.

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?

Yes No

2b. If yes, mitigation is required by (check all that apply):

DWQ Corps

2c. If yes, which mitigation option will be used for this project?

Mitigation bank
 Payment to in-lieu fee program
 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.

Yes

4b. Stream mitigation requested:

linear feet

4c. If using stream mitigation, stream temperature:

warm cool cold

4d. Buffer mitigation requested (DWQ only):

square feet

4e. Riparian wetland mitigation requested:

0 acres

4f. Non-riparian wetland mitigation requested:

acres

4g. Coastal (tidal) wetland mitigation requested:

0.12 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.

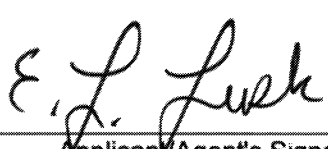
Zone	6c. Reason for impact	6d. Total impact (square feet)	Multiplier	6e. Required mitigation (square feet)
Zone 1			3 (2 for Catawba)	
Zone 2			1.5	
6f. Total buffer mitigation required:				

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).

6h. Comments:

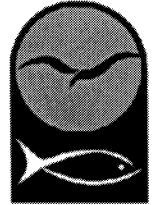
E. Stormwater Management and Diffuse Flow Plan (required by DWQ)	
1. Diffuse Flow Plan	
1a. Does the project include or is it adjacent to protected riparian buffers identified within one of the NC Riparian Buffer Protection Rules?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
1b. If yes, then is a diffuse flow plan included? If no, explain why Comments:	<input 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 permit drawings	
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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5. DWQ 401 Unit Stormwater Review	
5a. Does the Stormwater Management Plan meet the appropriate requirements?	<input type="checkbox"/> Yes <input type="checkbox"/> No N/A
5b. Have all of the 401 Unit submittal requirements been met?	<input type="checkbox"/> Yes <input type="checkbox"/> No N/A

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.	
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? NHP, Field Surveys, and USFWS		
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: Hydraulics coordination with FEMA		
8c. What source(s) did you use to make the floodplain determination? FEMA Maps		
Dr. Gregory J. Thorpe, Ph D Applicant/Agent's Printed Name	 Applicant/Agent's Signature (Agent's signature is valid only if an authorization letter from the applicant is provided.)	5.12.11 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-4494	
Applicant 1: First Name Gregory	MI	Last Name Thorpe	
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 - 707 - 6135 ext.	FAX No. 919 - 212 - 5785
Street Address (if different from above) 1020 Birch Ridge Drive		City Raleigh	State NC
		ZIP 27610- 4328	
Email cdmanley@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			

<Form continues on back>

3. Project Location			
County (can be multiple) Currituck	Street Address Bridge No. 3 over Tulls Creek	State Rd. # SR 1232	
Subdivision Name N/A	City	State NC	Zip -
Phone No. - - - - - ext.	Lot No.(s) (if many, attach additional page with list)		
a. In which NC river basin is the project located? Pasquotank	b. Name of body of water nearest to proposed project Tulls Creek		
c. Is the water body identified in (b) above, natural or manmade? <input checked="" type="checkbox"/> Natural <input type="checkbox"/> Manmade <input type="checkbox"/> Unknown	d. Name the closest major water body to the proposed project site. Tulls 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.) 700 (both sides combined)	b. Size of entire tract (sq.ft.) 46,400
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) 2.5' road bed <input type="checkbox"/> NHW or <input checked="" type="checkbox"/> NWL
e. Vegetation on tract Laurel Oak, Red Maple, Black Gum, Bald Cypress, Pond Pine, Cattail, Three-Square, and Phragmites	
f. Man-made features and uses now on tract Bridge and Roadway Approaches	
g. Identify and describe the existing land uses <u>adjacent</u> to the proposed project site. Forested & Sparse Residential	
h. How does local government zone the tract? Right of Way	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? See CE (SHPO)	
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 checked="" type="checkbox"/> Yes <input 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. N/A	
o. Describe existing drinking water supply source. N/A	
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. To maintain and improve public transportation	
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. This project involves the replacement of Bridge No. 3 in Currituck County. The bridge will be replaced at the existing location, and traffic will be routed on an off site detour. Top down construction will be the construction method. The existing bridge will be removed without dropping any components into the water. Typical construction, earth moving, and road surface equipment will be used.	
d. List all development activities you propose. Roadway and Bridge Construction	
e. Are the proposed activities maintenance of an existing project, new work, or both?	Replacing an existing bridge
f. What is the approximate total disturbed land area resulting from the proposed project?	0.6 <input type="checkbox"/> Sq.Ft or <input checked="" 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. The existing bridge discharges bridge drainage through the wheel guards directly into Tulls Creek. There are no bridge deck drains on the proposed bridge. Drainage is collected and discharged into wetland areas.	
i. Will wastewater or stormwater be discharged into a wetland?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
If yes, will this discharged water be of the same salinity as the receiving water?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input 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

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.

- 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 List	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.


- 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. *(Must be signed by property owner)*
- 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 MAY 12, 2011 Print Name Elizabeth Lusk
Signature 

Please indicate application attachments pertaining to your proposed project.

- DCM MP-2 Excavation and Fill Information
- DCM MP-3 Upland Development
- DCM MP-4 Structures Information
- DCM MP-5 Bridges and Culverts

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

- d. High-ground excavation in cubic yards. _____

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
 (ii) If no, attach a letter granting permission from the owner. _____
- d. (i) Will a disposal area be available for future maintenance?
 Yes No NA
 (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 _____
 (ii) Describe the purpose of disposal in these areas:

- f. (i) Does the disposal include any area in the water?
 Yes No NA
 (ii) If yes, how much water area is affected? _____

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: 500'
 Width: varies
- c. Average distance waterward of NHW or NWL. 20' (NWL)
- d. Maximum distance waterward of NHW or NWL. 26' (NWL)
- e. Type of stabilization material:
Rip Rap
- 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 9,600
 Breakwater/Sill _____ Other _____
- h. Type of fill material.
N/A
- i. Source of fill material.
N/A

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?
 Use of Standard NCDOT Best Management Practices and erosion control measures.

- b. What type of construction equipment will be used (e.g., dragline, backhoe, or hydraulic dredge)?
Heavy highway construction equipment
- 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.

Date May 12, 2011
 Project Name B-4494

Applicant Name Elizabeth Lusk
 Applicant Signature E.L. Lusk

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:

Tulls Creek

- c. Type of bridge (construction material):

18" Cored Slab

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

7' max.

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

If yes,

 - (ii) Length of existing bridge: 89.7"
 - (iii) Width of existing bridge: 24.2'
 - (iv) Navigation clearance underneath existing bridge: 2.7'
 - (v) Will all, or a part of, the existing bridge be removed?

(Explain) Yes, all of existing bridge to 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: 120'
- h. Width of proposed bridge: 33'
- i. Will the proposed bridge affect existing water flow? Yes No

If yes, explain:

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

If yes, explain: Increase opening (longer and higher)

- k. Navigation clearance underneath proposed bridge: 3.8'
- 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: approx. 4' to bridge deck

2. CULVERTS This section not applicable

- a. Number of culverts proposed: N/A
- 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)

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)

f. Length of proposed culvert: _____

g. Width of proposed culvert: _____

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

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

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

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

If yes, explain:

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 _____ None

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

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: 30'
 (iii) Avg. width of area to be excavated: 30'
 (iv) Avg. depth of area to be excavated: 2'
 (v) Amount of material to be excavated in cubic yards: 65

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

(ii) Dimensions of the spoil disposal area: To be determined by contractor

(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 2,756 SAV _____ SB _____
 WL 735 None

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

Fill to raise road grade

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: 350'

(iii) Avg. width of area to be filled: 25'

(iv) Purpose of fill: raise road grade

4. GENERAL

a. Will the proposed project require the relocation of any existing utility lines? Yes No

If yes, explain: See utility narrative in permit package

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 >

Form DCM MP-5 (Bridges and Culverts, Page 4 of 4)

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?

Use of Standard NCDOT BMP's

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

Typical construction, earth moving, and road surface equipment will be used.

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.

Date	May 12, 2012
Project Name	B-4494
Applicant Name	Elizabeth Lusk
Applicant Signature	E. Lusk



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY
GOVERNOR

LYNDO TIPPETT
SECRETARY

October 10, 2008

MEMORANDUM TO: File

FROM: Paul F. Fisher, P.E.
Hydraulics Unit

SUBJECT: Stormwater Management Plan
B-4494, Currituck County

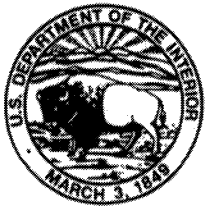
The following items were incorporated into the Hydraulic design of this project for stormwater quality considerations:

- No deck drains on the bridge
- 1.5:1 Sideslopes on fill in canals to minimize impacts to Surface Waters
- Hold existing Roadway grade to minimize project footprint.

PFF

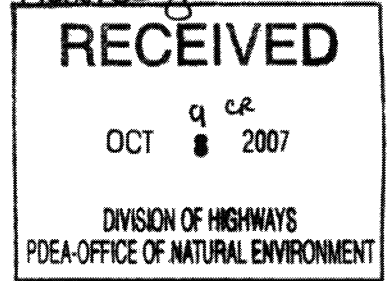
cc: ✓ check 10/10/07
K. Williams

Manley



United States Department of the Interior

FISH AND WILDLIFE SERVICE
Raleigh Field Office
Post Office Box 33726
Raleigh, North Carolina 27636-3726



October 4, 2007

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

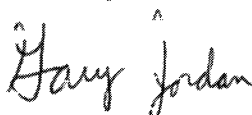
Dear Dr. Thorpe:

This letter is in response to your letter of September 26, 2007 which provided the U.S. Fish and Wildlife Service (Service) with the biological determination of the North Carolina Department of Transportation (NCDOT) that the replacement of Bridge No. 3 on SR 1232 (Poyner Road) over Tulls Creek in Currituck County (TIP No. B-4494) may affect, but is not likely to adversely affect the federally endangered West Indian manatee (*Trichechus manatus*). In addition, NCDOT has determined that the project will have no effect on all other listed species. These comments are provided in accordance with section 7 of the Endangered Species Act (ESA) of 1973, as amended (16 U.S.C. 1531-1543).

NCDOT has agreed to implement the Service's **GUIDELINES FOR AVOIDING IMPACTS TO THE WEST INDIAN MANATEE: Precautionary Measures for Construction Activities in North Carolina Waters**. Based on this commitment and on available information, the Service concurs with your determination that the proposed bridge replacement may affect, but is not likely to adversely affect the West Indian manatee. Also, we concur that the project will have no effect on all other listed species. We believe that the requirements of section 7(a)(2) of the ESA have been satisfied. We remind you that obligations under section 7 consultation must be reconsidered if: (1) new information reveals impacts of this identified action that may affect listed species or critical habitat in a manner not previously considered in this review; (2) this action is subsequently modified in a manner that was not considered in this review; or (3) a new species is listed or critical habitat determined that may be affected by this identified action.

The Service appreciates the opportunity to review this project. If you have any questions regarding our response, please contact Mr. Gary Jordan at (919) 856-4520 (Ext. 32).

Sincerely,


for Pete Benjamin
Field Supervisor

cc: Bill Biddlecome, USACE, Washington, NC
David Wanwright, NCDWQ, Raleigh, NC
Travis Wilson, NCWRC, Creedmoor, NC
Chris Militscher, USEPA, Raleigh, NC
John Sullivan, FHWA, Raleigh, NC
David Harris, NCDOT, Raleigh, NC

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4494	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
33730.1.1	BRZ-1232(4)	PE	
33730.2.1	BRZ-1232(4)	R/W & UTIL.	

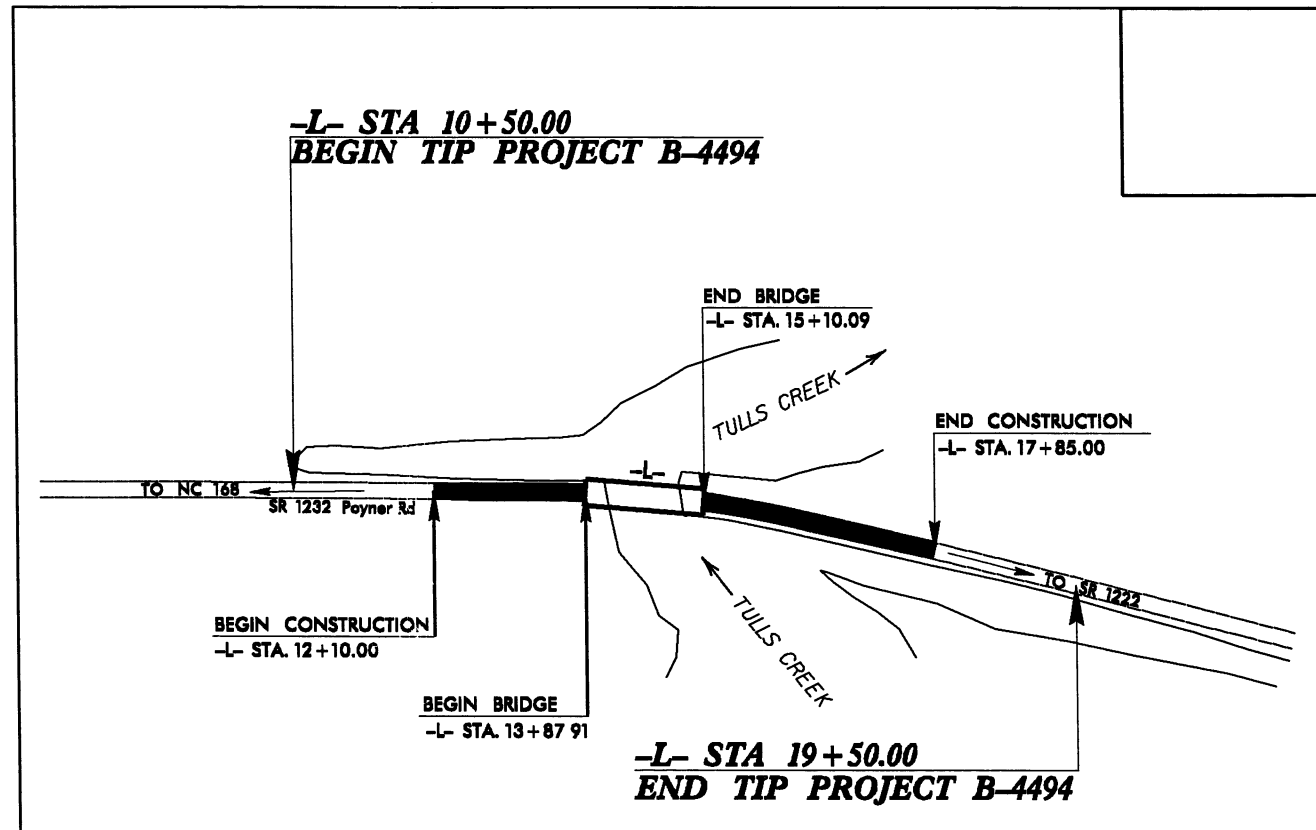
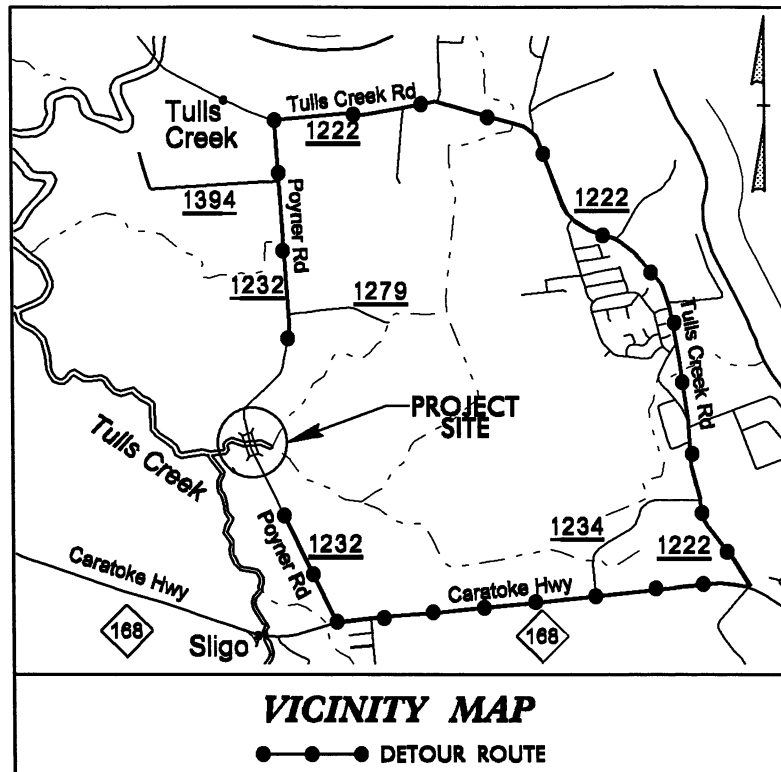
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CURRITUCK COUNTY

LOCATION: BRIDGE NO. 3 OVER TULLS CREEK ON SR 1232 (POYNER RD)

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

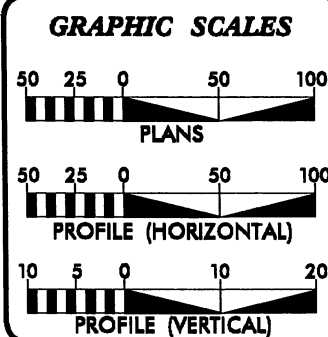
Permit Drawing
Sheet 1 of 6



WETLANDS & STREAM IMPACTS

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

CONTRACT: TIP PROJECT: B-4494



DESIGN DATA

ADT 2012 =	1275
ADT 2032 =	1970
DHV =	10 %
D =	60 %
T =	3 % *
V =	50 MPH
FUNC. CLASS =	RURAL LOCAL
SUB-REGIONAL TIER	
* TTST 1% DUAL 2%	

PROJECT LENGTH

LENGTH OF ROADWAY TIP PROJECT B-4494	=	0.148 MILES
LENGTH OF STRUCTURE TIP PROJECT B-4494	=	0.023 MILES
TOTAL LENGTH OF TIP PROJECT B-4494	=	0.171 MILES

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

2006 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: JANUARY 21, 2011	GARY R. LOVERING, PE PROJECT ENGINEER
LETTING DATE: JANUARY 17, 2012	ANTHONY C. WEST PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

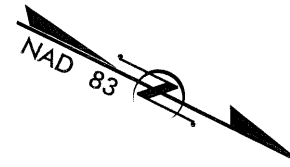
SIGNATURE: _____ P.E.

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

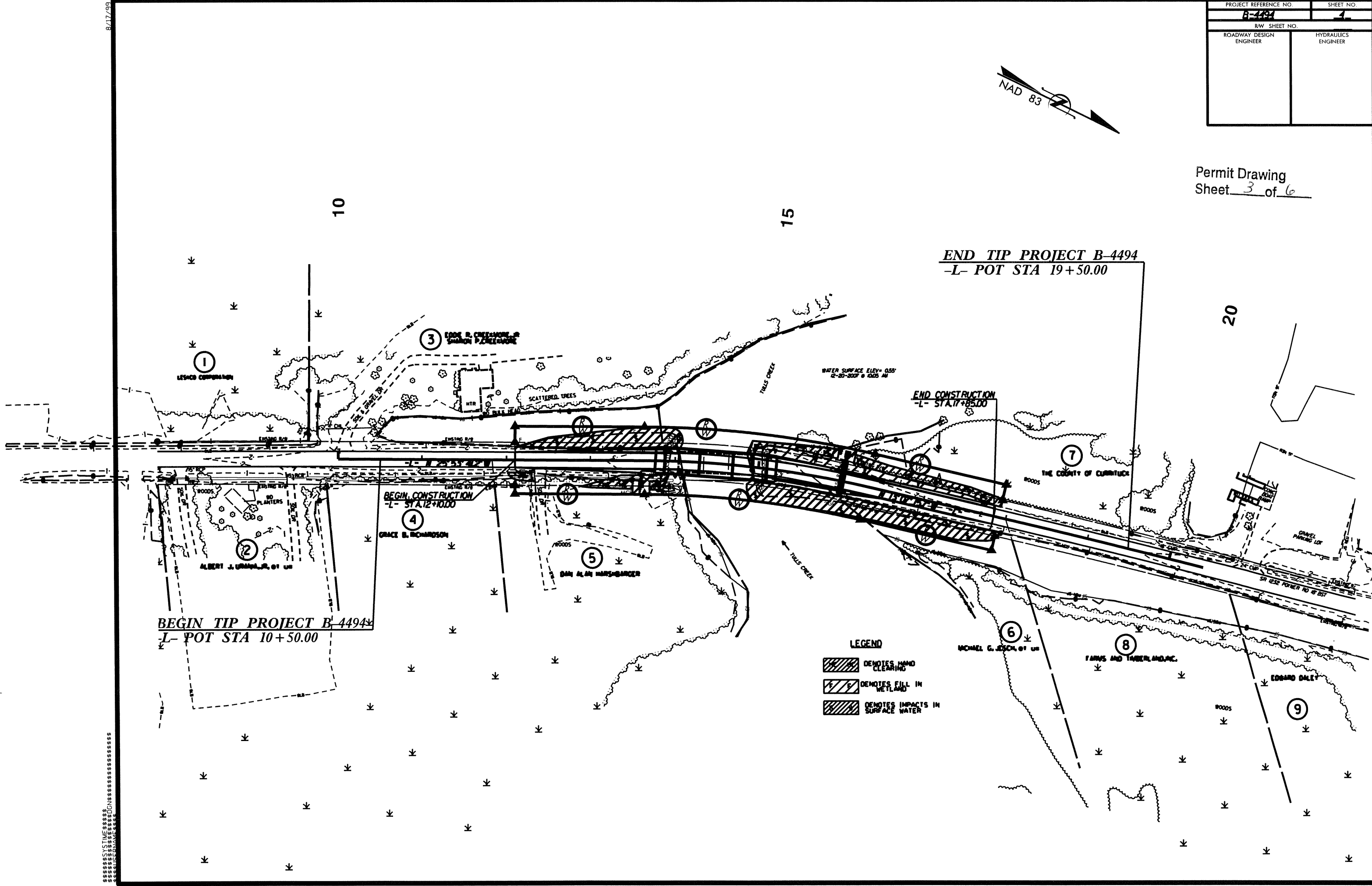
STATE HIGHWAY DESIGN ENGINEER P.E.

\$\$\$ SYSTEM TIME \$\$\$
 \$\$\$ USER NAME \$\$\$
 \$\$\$ DGN \$\$\$
 \$\$\$ PLOT \$\$\$
 \$\$\$ DATE \$\$\$

PROJECT REFERENCE NO. B-4494		SHEET NO. 4	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	



Permit Drawing
Sheet 3 of 6



END TIP PROJECT B-4494
-L- POT STA 19+50.00

BEGIN TIP PROJECT B-4494
-L- POT STA 10+50.00

END CONSTRUCTION
-L- STA 17+85.00

BEGIN CONSTRUCTION
-L- STA 12+00.00

WATER SURFACE ELEV = 0.55'
12-20-2007 @ 10:05 AM

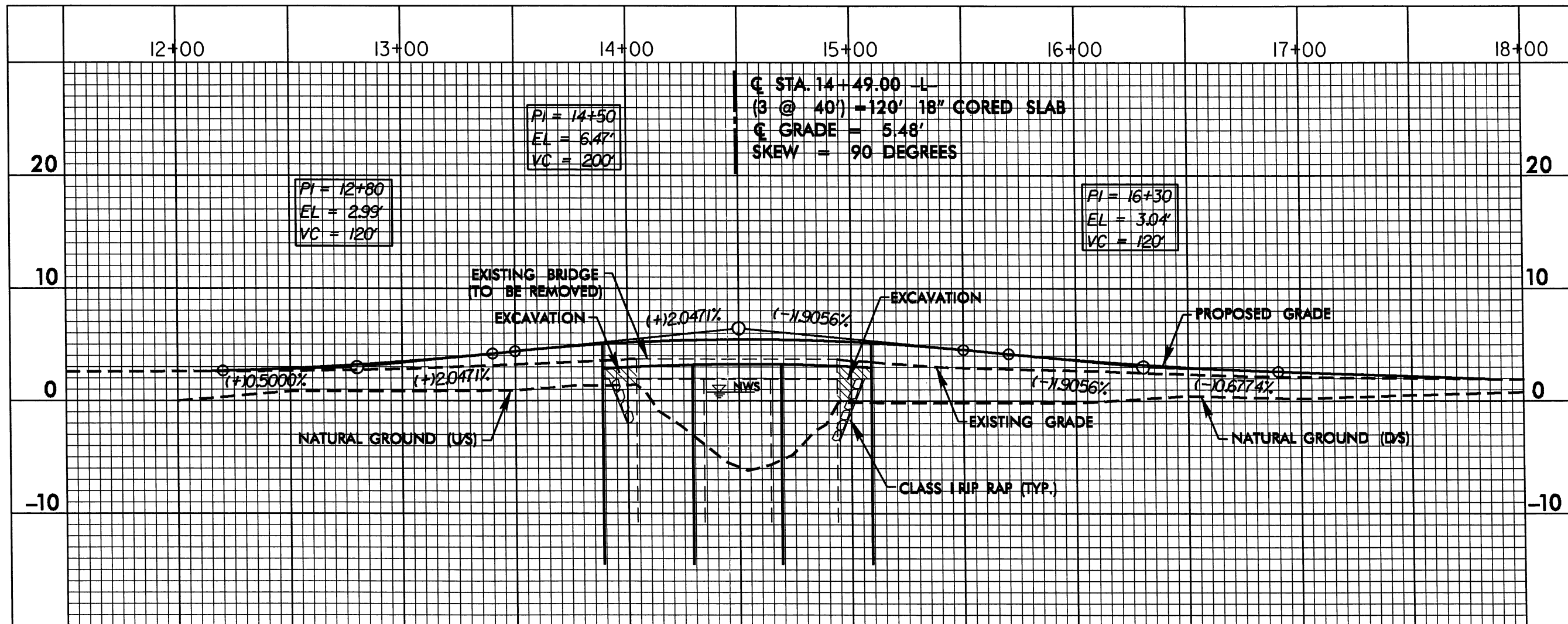
- LEGEND**
- DENOTES HAND CLEARING
 - DENOTES FILL IN WETLAND
 - DENOTES IMPACTS IN SURFACE WATER

8/17/99
STATIONING: 10+00 TO 19+50
DRAWN BY: J. J. [unreadable]
CHECKED BY: [unreadable]
DATE: 10/1/07

8/17/99

PROJECT REFERENCE NO. B-4494	SHEET NO.
RAW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

Permit Drawing
Sheet 4 of 6



PROFILE

SUN



Property Owner Contact Report

TIP # B-4494

Owner Name/ Business	Owner First Name	Address	City/Town	State	Zip Code	Contact/ Relationship	Home Phone	Contact By	Contact Date	How Contacted	Comments
Ciesieski	Karina J	377 Poyners Road	Moyock	NC	27958						Inge Division Parcel 4 Revised
Creekmore, Jr	Eddie R	498 Poyners RD	Moyock	NC	27958						401 Pembroke LN Suffolk, VA 23434
Daley	John E	373 Royners RD	Moyock	NC	27958						INGE Division Parcel 5 Revised Billing Address PO Box 128 Kill Devil Hills, NC 27948-0128
Farms & Timberland, INC		369 Poyners RD	Moyock	NC	27958						Parcel 6 INGE Division 2225 Spinnaker Circle, VA Beach VA 23451
Harshbarger	Dan Allan	2639 Cecilia Terrace	Chesapeake	VA	23323						
Jesch	Michael G & Beverly H	365 Poyners Road	Moyock	NC	27958						Parcel 7 INGE Division
Leskco Corp		PO Box 154	FT Ogden	FL	33842-0154						
Raymo	Ralph D	517 Poyners RD	Moyock	NC	27958						Leskco Corp Lot 4
Richardson	Grace B	3830 White Chapel Arch	Chesapeake	VA	23321-4012						
The County of Currituck		458 Poyners RD (PO Box 39)	Moyock	NC	27958						Poyner RD Boating Access
Urania, Jr	Albert J	509 Poyners RD	Moyock	NC	27958						Leskco Corp, Lot 3



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR.
SECRETARY

Utility Narrative

Existing Utilities:

- The existing overhead telephone lines above Tulls Creek on left/west side of roadway will be removed.
- The existing telephone poles adjacent to Tulls Creek on left/west side of roadway (inside Hydro permitted areas) will be removed.
- The existing underground telephone lines on left/west side of roadway (away from creek) will be abandoned.

Proposed Utilities:

- Proposed underground telephone cables will be installed on right/east side of roadway using a directional bore with entrance and exit locations outside of wetland boundaries.
- There will be less than 0.01 acre of impacts to wetlands due to the under road boring.

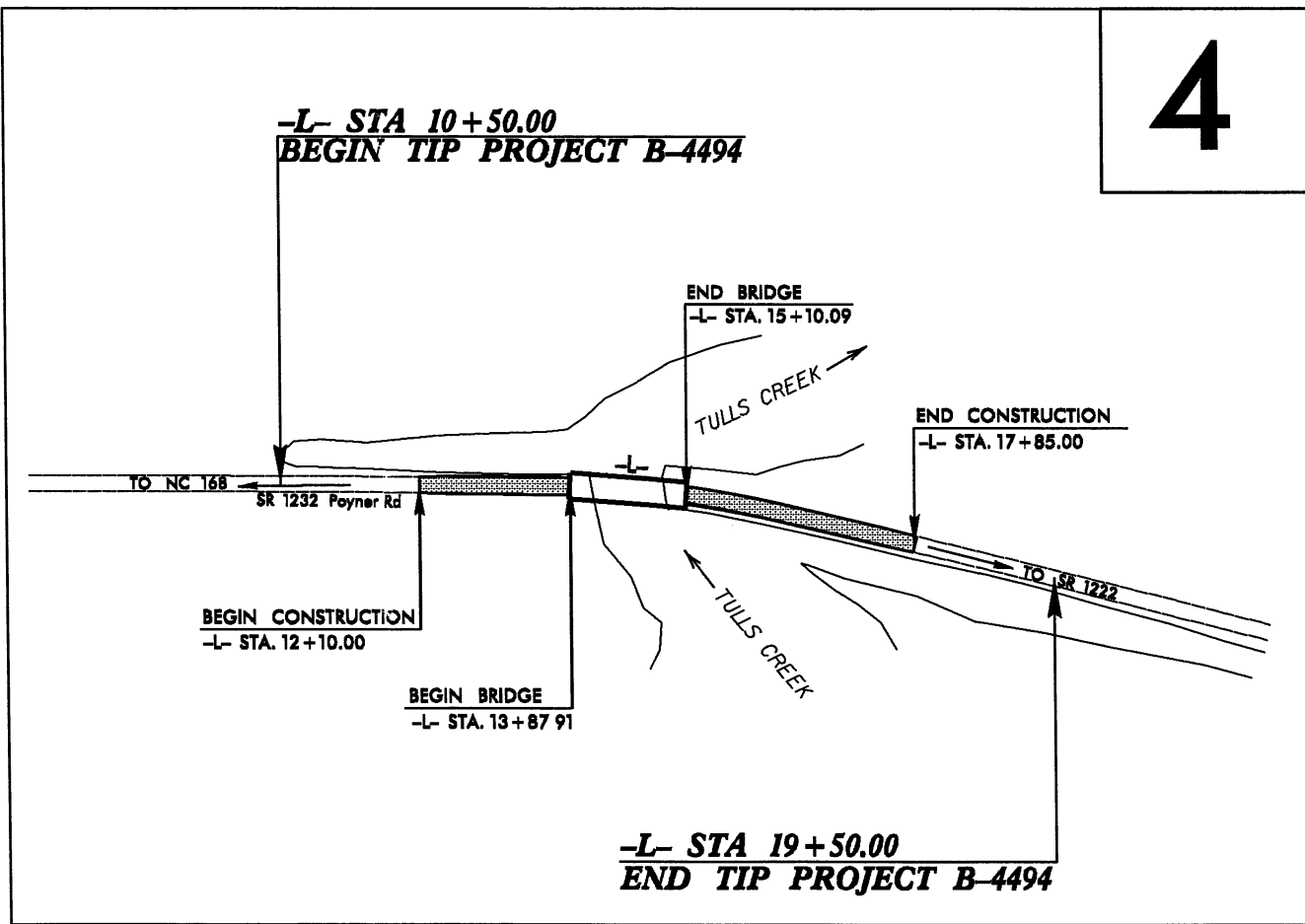
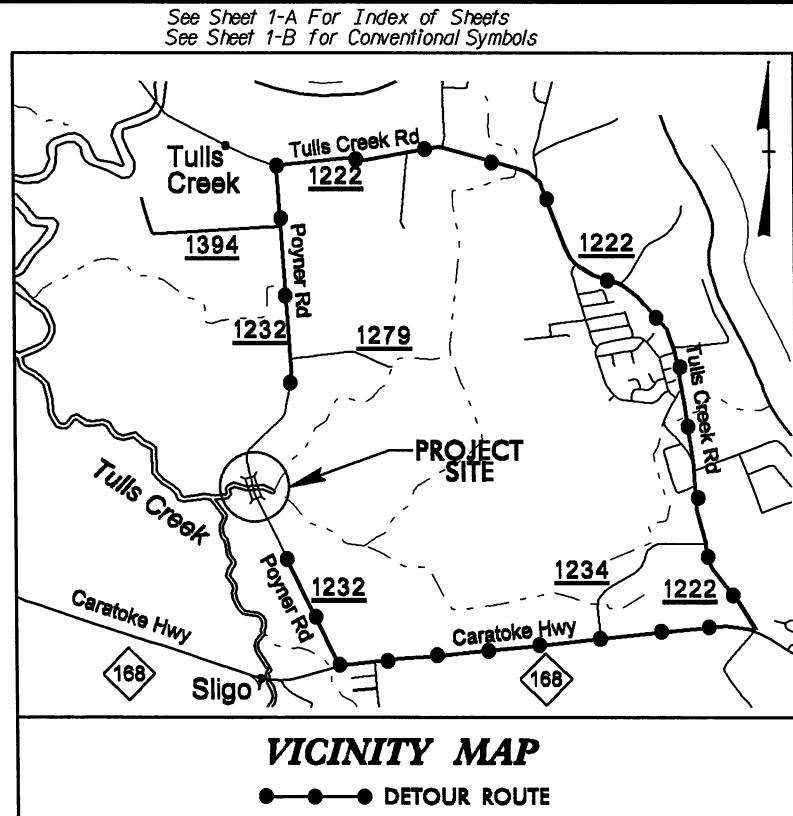
Utility Permit Drawing
Sheet _____ of 3

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4494	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
33730.1.1	BRZ-1232(4)	PE	
33730.2.1	BRZ-1232(4)	R/W & UTIL.	

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
CURRITUCK COUNTY

LOCATION: BRIDGE NO. 3 OVER TULLS CREEK ON SR 1232 (POYNER RD)

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



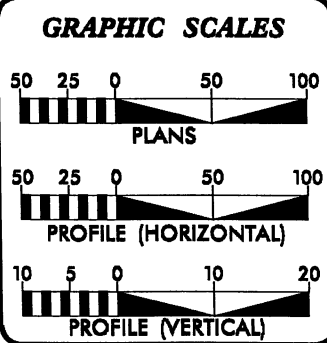
4

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

INCOMPLETE PLANS
DO NOT USE FOR ADOPTION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

CONTRACT: TIP PROJECT: B-4494

CONTRACT:



DESIGN DATA

ADT 2012 =	1275
ADT 2032 =	1970
DHV =	10 %
D =	60 %
T =	3 % *
V =	50 MPH
FUNC. CLASS =	RURAL LOCAL
SUB-REGIONAL TIER	
* TTST 1% DUAL 2%	

PROJECT LENGTH

LENGTH OF ROADWAY TIP PROJECT B-4494	=	0.148 MILES
LENGTH OF STRUCTURE TIP PROJECT B-4494	=	0.023 MILES
TOTAL LENGTH OF TIP PROJECT B-4494	=	0.171 MILES

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

2006 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
JANUARY 21, 2011

LETTING DATE:
JANUARY 17, 2012

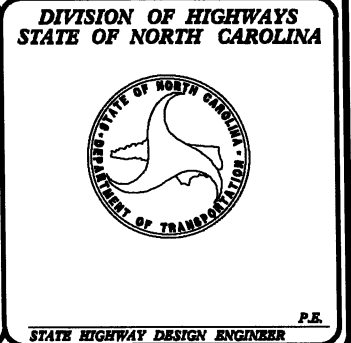
GARY R. LOVERING, PE
PROJECT ENGINEER

ANTHONY C. WEST
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

ROADWAY DESIGN ENGINEER

STATE HIGHWAY DESIGN ENGINEER



12-JAN-2011 08:11 R:\Roadwork\12b4494_rdy_tsh.dgn \$\$\$SERVNAME\$\$\$

06/08/09

Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	○
Property Corner	→
Property Monument	□
Parcel/Sequence Number	②③
Existing Fence Line	×-×-×-×
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	□
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	-----
Proposed Wetland Boundary	-----
Existing Endangered Animal Boundary	-----
Existing Endangered Plant Boundary	-----

BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	○
Sign	○
Well	⊕
Small Mine	⊗
Foundation	□
Area Outline	□
Cemetery	↑
Building	□
School	□
Church	□
Dam	—

HYDROLOGY:

Stream or Body of Water	-----
Hydro, Pool or Reservoir	□
Jurisdictional Stream	-----
Buffer Zone 1	-----
Buffer Zone 2	-----
Flow Arrow	←
Disappearing Stream	→
Spring	○
Wetland	-----
Proposed Lateral, Tail, Head Ditch	-----
False Sump	▽

RAILROADS:

Standard Gauge	-----
RR Signal Milepost	○
Switch	□
RR Abandoned	-----
RR Dismantled	-----

RIGHT OF WAY:

Baseline Control Point	◇
Existing Right of Way Marker	△
Existing Right of Way Line	-----
Proposed Right of Way Line	-----
Proposed Right of Way Line with Iron Pin and Cap Marker	○
Proposed Right of Way Line with Concrete or Granite Marker	○
Existing Control of Access	○
Proposed Control of Access	○
Existing Easement Line	-----
Proposed Temporary Construction Easement	-----
Proposed Temporary Drainage Easement	-----
Proposed Permanent Drainage Easement	-----
Proposed Permanent Drainage / Utility Easement	-----
Proposed Permanent Utility Easement	-----
Proposed Temporary Utility Easement	-----
Proposed Permanent Easement with Iron Pin and Cap Marker	◇

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	-----
Proposed Slope Stakes Fill	-----
Proposed Wheel Chair Ramp	WCR
Existing Metal Guardrail	-----
Proposed Guardrail	-----
Existing Cable Guiderail	-----
Proposed Cable Guiderail	-----
Equality Symbol	⊕
Pavement Removal	XXXX

VEGETATION:

Single Tree	☆
Single Shrub	○
Hedge	-----
Woods Line	-----
Orchard	☆
Vineyard	-----

EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	CONC
Bridge Wing Wall, Head Wall and End Wall	CONC HW
MINOR:	
Head and End Wall	CONC HW
Pipe Culvert	-----
Footbridge	-----
Drainage Box: Catch Basin, DI or JB	CB
Paved Ditch Gutter	-----
Storm Sewer Manhole	⊕
Storm Sewer	-----

UTILITIES:

POWER:	
Existing Power Pole	●
Proposed Power Pole	○
Existing Joint Use Pole	⊕
Proposed Joint Use Pole	⊕
Power Manhole	⊕
Power Line Tower	⊗
Power Transformer	⊗
U/G Power Cable Hand Hole	⊕
H-Frame Pole	●
Recorded U/G Power Line	-----
Designated U/G Power Line (S.U.E.*)	-----

TELEPHONE:

Existing Telephone Pole	●
Proposed Telephone Pole	○
Telephone Manhole	⊕
Telephone Booth	⊕
Telephone Pedestal	⊕
Telephone Cell Tower	⊕
U/G Telephone Cable Hand Hole	⊕
Recorded U/G Telephone Cable	-----
Designated U/G Telephone Cable (S.U.E.*)	-----
Recorded U/G Telephone Conduit	-----
Designated U/G Telephone Conduit (S.U.E.*)	-----
Recorded U/G Fiber Optics Cable	-----
Designated U/G Fiber Optics Cable (S.U.E.*)	-----

WATER:

Water Manhole	⊕
Water Meter	○
Water Valve	⊕
Water Hydrant	⊕
Recorded U/G Water Line	-----
Designated U/G Water Line (S.U.E.*)	-----
Above Ground Water Line	A/G Water

TV:

TV Satellite Dish	⊕
TV Pedestal	⊕
TV Tower	⊕
U/G TV Cable Hand Hole	⊕
Recorded U/G TV Cable	-----
Designated U/G TV Cable (S.U.E.*)	-----
Recorded U/G Fiber Optic Cable	-----
Designated U/G Fiber Optic Cable (S.U.E.*)	-----

GAS:

Gas Valve	◇
Gas Meter	⊕
Recorded U/G Gas Line	-----
Designated U/G Gas Line (S.U.E.*)	-----
Above Ground Gas Line	A/G Gas

SANITARY SEWER:

Sanitary Sewer Manhole	⊕
Sanitary Sewer Cleanout	⊕
U/G Sanitary Sewer Line	-----
Above Ground Sanitary Sewer	A/G Sanitary Sewer
Recorded SS Forced Main Line	-----
Designated SS Forced Main Line (S.U.E.*)	-----

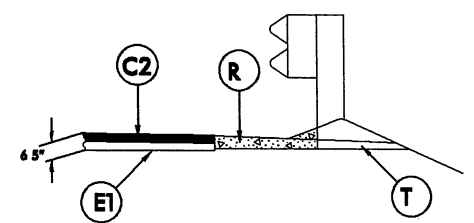
MISCELLANEOUS:

Utility Pole	●
Utility Pole with Base	□
Utility Located Object	○
Utility Traffic Signal Box	⊕
Utility Unknown U/G Line	-----
U/G Tank; Water, Gas, Oil	□
A/G Tank; Water, Gas, Oil	□
U/G Test Hole (S.U.E.*)	⊕
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.

PROJECT REFERENCE NO. B-4494	SHEET NO. 2
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
INCOMPLETE PLANS DO NOT USE FOR ACQUISITION PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

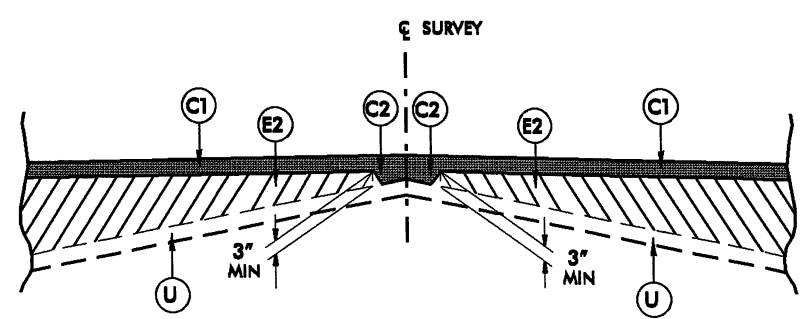
PAVEMENT SCHEDULE FINAL DESIGN	
C1	PROP. APPROX. 2 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
C2	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT TO EXCEED 1 1/2" IN DEPTH.
E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 450 LBS. PER SQ. YD.
E2	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5 1/2" IN DEPTH.
R	SHOULDER BERM GUTTER
T	EARTH MATERIAL
U	EXISTING PAVEMENT
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE STANDARD WEDGING DETAIL THIS SHEET.)

ALL PAVEMENT EDGE SLOPES ARE 1:1

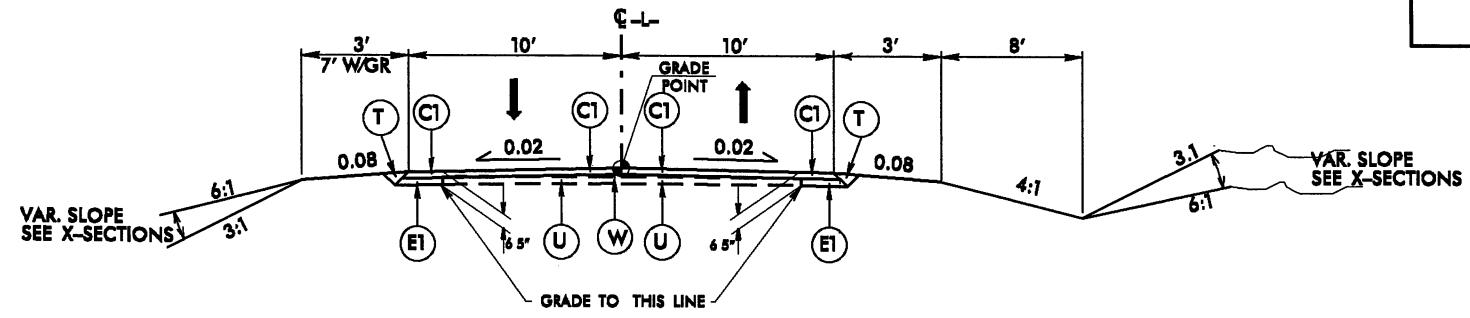


SHOULDER BERM GUTTER DETAIL

USE SHOULDER BERM GUTTER DETAIL
 -L- STA. 13+60.00 TO -L- STA. 13+76.18 (RT.)
 -L- STA. 15+21.83 TO -L- STA. 16+00.00 (RT.)

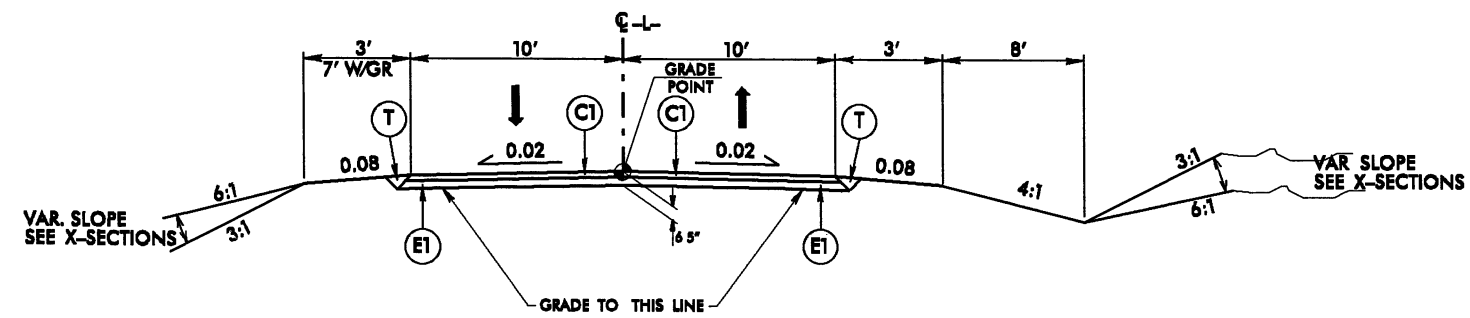


Detail Showing Method of Wedging



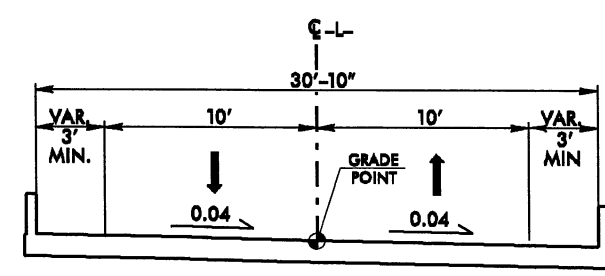
ROADWAY TYPICAL SECTION NO. 1

-L- STA. 12+10.00 TO STA. 13+00.00
 -L- STA. 16+80.00 TO STA. 17+85.00



ROADWAY TYPICAL SECTION NO. 2

-L- STA. 13+00.00 TO STA. 13+87.91 (BEGIN BRIDGE)
 -L- STA. 15+10.09 (END BRIDGE) TO STA. 16+80.00

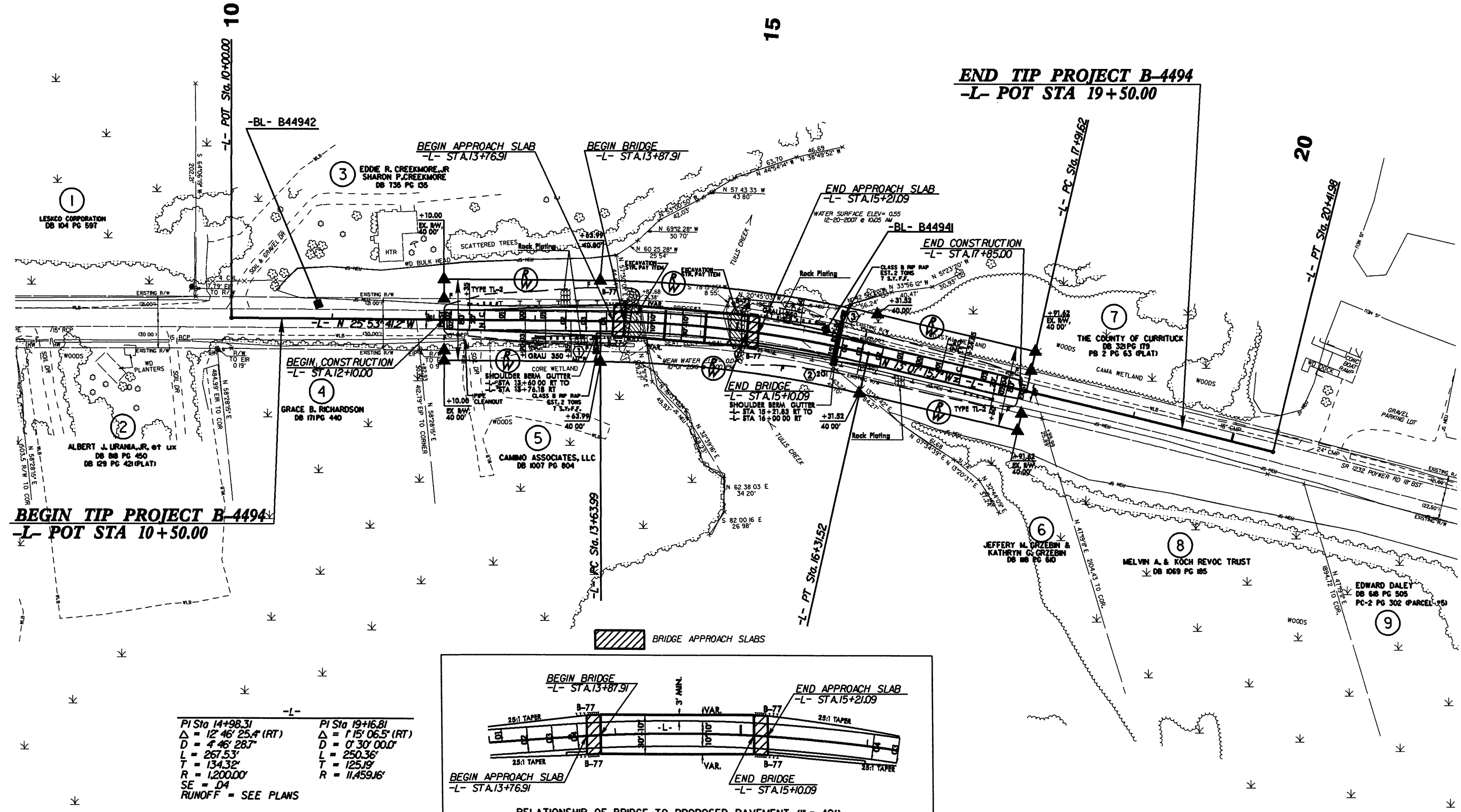
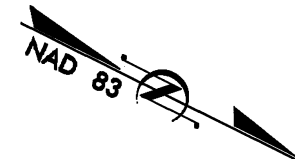
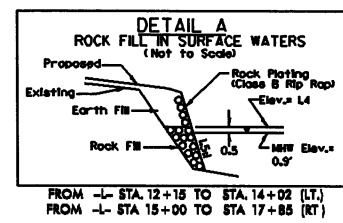


TYPICAL SECTION ON STRUCTURE

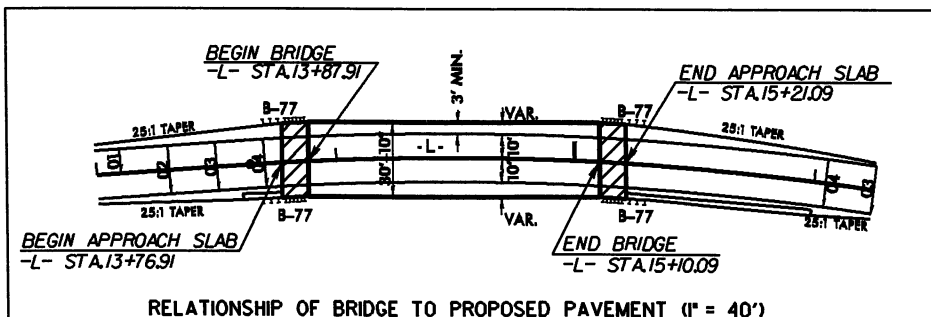
-L- STA. 13+87.91 (BEGIN BRIDGE) TO 15+10.09 (END BRIDGE)

PROJECT REFERENCE NO. B-4494	SHEET NO. 4
NW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR CONSTRUCTION	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

FOR -L- PROFILE SEE SHEET 5



PI Sta 14+98.31	PI Sta 19+16.81
$\Delta = 12' 46' 25.4''$ (RT)	$\Delta = 1' 15' 06.5''$ (RT)
$D = 4' 46' 28.7''$	$D = 0' 30' 00.0''$
$L = 267.53'$	$L = 250.36'$
$T = 134.32'$	$T = 125.19'$
$R = 1200.00'$	$R = 11,459.16'$
SE = .04	
RUNOFF = SEE PLANS	



8/17/99

P:\MAN-2011\000
P:\Research\B-4494_rdy_psh.dgn
B-4494.dwg

5/14/99

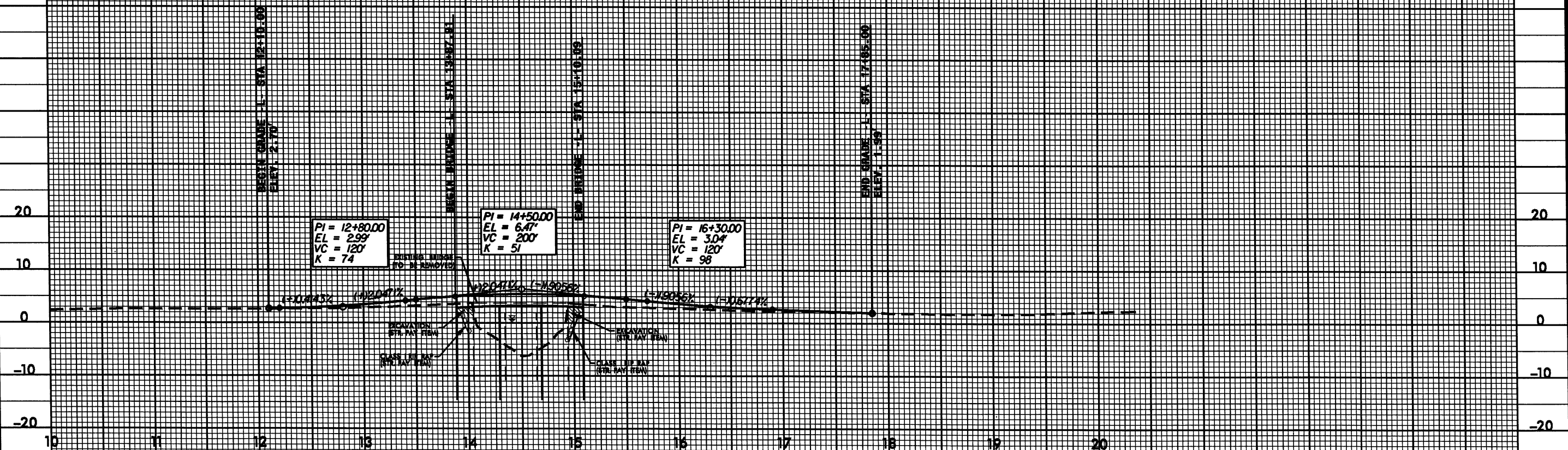
BM #6 R/R SPIKE SET IN BASE OF 24" PINE
-BL- STA 22+24, 81' LEFT
EL = 4.23'

PROJECT REFERENCE NO. B-4494	SHEET NO. 5
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS <small>NO CONTRACT OR CONSTRUCTION</small>	
PRELIMINARY PLANS <small>NO CONTRACT OR CONSTRUCTION</small>	
FOR -L- ALIGNMENT, SEE SHEET 4	

BRIDGE HYDRAULIC DATA

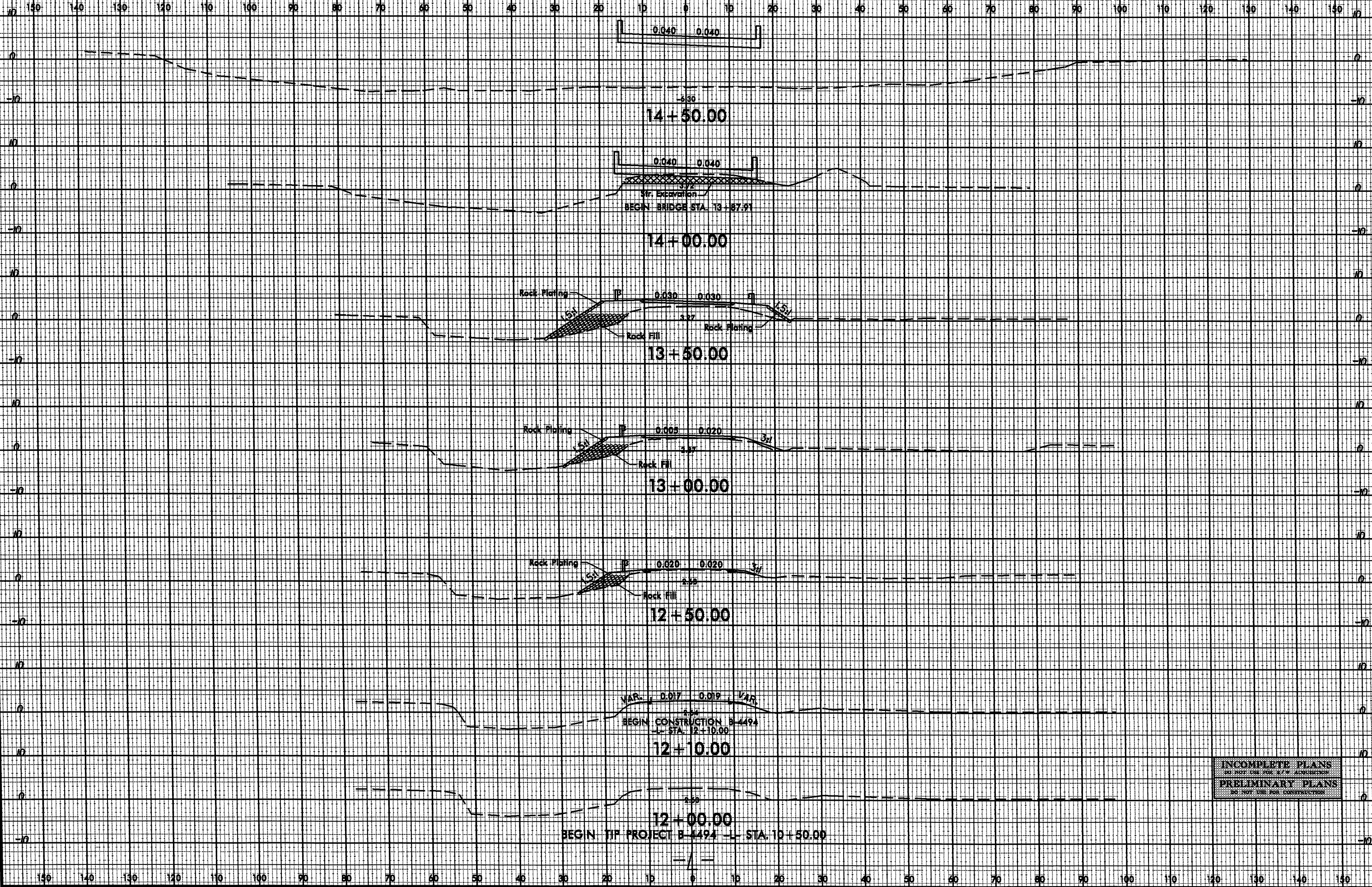
*DESIGN DISCHARGE = CFS
 DESIGN FREQUENCY = 50 YRS
 DESIGN HW ELEVATION = 5.1' FT
 *BASE DISCHARGE = CFS
 BASE FREQUENCY = 100 YRS
 BASE HW ELEVATION = 5.4' FT
 *OVERTOPPING DISCHARGE = CFS
 OVERTOPPING FREQUENCY < 10 YRS
 OVERTOPPING ELEVATION = 175' FT
 ESTIMATED NORMAL WATER SURFACE ELEVATION = ' FT
 DATE OF SURVEY = 8/26/08
 W.S. ELEVATION AT DATE OF SURVEY = 0.40' FT
 * FLOODING IS TIDAL SURGE, NO DISCHARGES DETERMINED

-L-



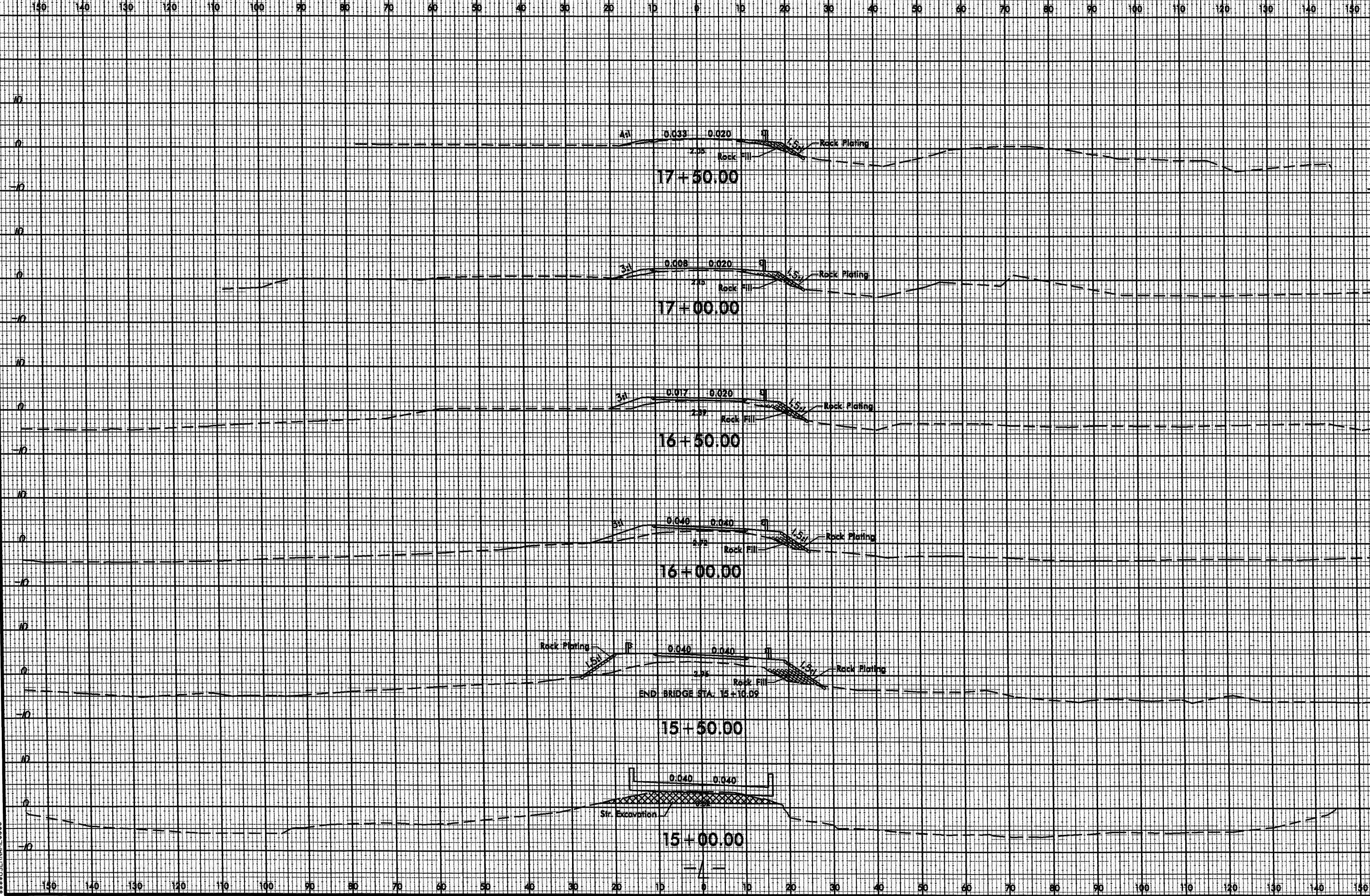
12-JAN-2011 08:14
R:\Rosales\Projects\B-4494_rdy_pf1.dgn
888151781

8/23/99



INCOMPLETE PLANS
 PRELIMINARY PLANS
 DO NOT USE FOR CONSTRUCTION

12-JAN-2011 08:19
 R:\Roadwork\XSB\4494_x-dj-xpl.dgn
 \$\$\$USRRNME\$\$\$





PROJ. REFERENCE NO.
B-4494

SHEET NO.
X-3

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

END TIP PROJECT B-4494 -L- STA. 19+50.00

18+00.00

A1 0.050 0.030 4H

END CONSTRUCTION B-4494
-L- STA. 17+85.00

17+85.00

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150