



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR.
SECRETARY

November 6, 2009

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

Dear Sir:

Subject: Application for Section 404 Nationwide Permit 23, 33, Section 401 Water Quality Certification, and Neuse Riparian Buffer Authorization for the replacement of Bridge 122 over White Oak Swamp on SR 1507 (Gardners School Road) in Wilson County. Federal Aid Project Number BRZ-1507(3). Debit \$240.00 from WBS 33834.1.1.; **TIP No. B-4680**

Please find enclosed a site map, a Pre-Construction Notification (PCN) form, buffer drawings, permit drawings, and a copy of the roadway plans for the above referenced project. A Programmatic Categorical Exclusion (PCE) was completed for this project on May 2, 2008, and distributed shortly thereafter. Additional copies are available upon request. The North Carolina Department of Transportation (NCDOT), Division of Highways, in consultation with the Federal Highway Administration (FHWA), proposes to replace Bridge No. 122 in Wilson County. The project involves replacement of the existing functionally obsolete and structurally deficient 87-foot bridge with a new 120-foot bridge. The new bridge will feature two 11-foot lanes and 3-foot offsets. The south approach will be approximately 400 feet long and the north approach will be approximately 500 feet long. Proposed permanent impacts to riverine wetlands consist of 0.01 acre for fill, 0.07 acre of mechanized clearing and <0.01 of excavation. The proposed let date for the project is February 16, 2010 with a review date of December 29, 2009.

Regulatory Approvals

Section 404 Permit: 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 Nationwide Permit 23 for permanent impacts from bridge construction and a 33 for temporary impacts resulting from temporary fill for erosion control measures to authorize these activities.

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

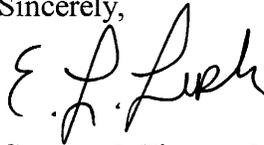
Section 401 Permit: We anticipate 401 General Certification numbers 3701 and 3688 will apply to this project. In accordance with 15A NCAC 2H, Section .0500(a), we are providing five copies of this application to the NCDWQ for their approval.

Neuse Riparian Buffer: NCDOT requests that the NC Division of Water Quality review this application and issue a written approval for a Neuse 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 John S. Merritt at 919-431-6749 or jsmerritt@ncdot.gov.

Sincerely,



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

W/attachment

Mr. Brian Wrenn, NCDWQ (5 Copies)

W/o attachment (see website for attachments)

Dr. David Chang, P.E., Hydraulics
Mr. Greg Perfetti, P.E., Structure Design
Mr. Victor Barbour, P.E., Project Services Unit
Mr. Mark Staley, Roadside Environmental
Mr. Richard E. Greene, P.E. Div. 4 Engineer
Mr. Chad Coggins, Div. 4 Environmental Officer
Mr. Scott McLendon, USACE, Wilmington
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
Mrs. Pam Williams, PDEA Project Planning Engineer



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 33 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 type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
1g. Is the project located in any of NC's twenty coastal counties. If yes, answer 1h below.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
1h. Is the project located within a NC DCM Area of Environmental Concern (AEC)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

2. Project Information

2a. Name of project:	Replace Bridge 122 over White Oak Swamp on SR 1507 (Gardners School Road)
2b. County:	Wilson
2c. Nearest municipality / town:	Saratoga
2d. Subdivision name:	<i>not applicable</i>
2e. NCDOT only, T.I.P. or state project no:	B-4680

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:	jsmerritt@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: 35.6798 (DD.DDDDD) Longitude: - 77.7850 (-DD.DDDDD)
1c. Property size:	2.76 acres
2. Surface Waters	
2a. Name of nearest body of water (stream, river, etc.) to proposed project:	White Oak Swamp
2b. Water Quality Classification of nearest receiving water:	C; NSW
2c. River basin:	Neuse
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 maintained/disturbed, agricultural/cultivated land, mixed hardwood forest and bottomland hardwood forest. General land use is Residential with Low-density detached dwelling and cropland and pasture	
3b. List the total estimated acreage of all existing wetlands on the property: 1.69	
3c. List the total estimated linear feet of all existing streams (intermittent and perennial) on the property: 130	
3d. Explain the purpose of the proposed project: To replace a structurally deficient and functionally obsolete bridge.	
3e. Describe the overall project in detail, including the type of equipment to be used: The project involves replacing an 87-foot bridge with a 120-foot 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:	<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): Jennifer Schwaller and Adam Karagosian, PWS	Agency/Consultant Company: STV/Ralph Whitehead Associates Other:
4d. If yes, list the dates of the Corps jurisdictional determinations or State determinations and attach documentation. December 21, 2008	
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 checked="" type="checkbox"/> No <input type="checkbox"/> Unknown
5b. If yes, explain in detail according to "help file" instructions.	
6. Future Project Plans	
6a. Is this a phased project?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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):

- Wetlands Streams - tributaries Buffers
 Open Waters 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	Permanent Fill	Riparian	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	0.01
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	0.07
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					0.08 Permanent

2h. Comments: Excavation impacts are less than 0.005 ac. Therefore, due to rounding, total impacts are 0.08 ac.

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 type="checkbox"/> P <input checked="" type="checkbox"/> T	Temp fill	Whiteoak Swamp	<input checked="" type="checkbox"/> PER <input type="checkbox"/> INT	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	70	0.02 (ac)
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						0.02 (ac)

3i. Comments: Permanent impacts due to bents will be <0.01ac to surface waters

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				

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 checked="" 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 checked="" type="checkbox"/> P <input type="checkbox"/> T	3 Span Bridge	Whiteoak Swamp	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	916	626
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				916	626
6i. Comments: BZ1 = 58.5 BZ2 = 30.5 + 14 = 44.5' total					

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 33 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; Design Standards in Sensitive Watersheds will be applied.		
1b. Specifically describe measures taken to avoid or minimize the proposed impacts through construction techniques. 3:1 fill slopes where practicable; top down construction.		
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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No If no, explain: Due to minimal permanent impacts.	
2b. If yes, mitigation is required by (check all that apply):	<input type="checkbox"/> DWQ <input type="checkbox"/> Corps	
2c. If yes, which mitigation option will be used for this project?	<input type="checkbox"/> Mitigation bank <input 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 type="checkbox"/> Yes	
4b. Stream mitigation requested:	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):	square feet	
4e. Riparian wetland mitigation requested:	acres	
4f. Non-riparian wetland mitigation requested:	acres	
4g. Coastal (tidal) wetland mitigation requested:	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?				<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> 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 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 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 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 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 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
5b. Have all of the 401 Unit submittal requirements been met?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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	

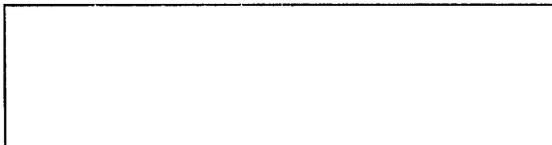
5. Endangered Species and Designated Critical Habitat (Corps Requirement)		
5a. Will this project occur in or near an area with federally protected species or habitat?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
5b. Have you checked with the USFWS concerning Endangered Species Act impacts?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
5c. If yes, indicate the USFWS Field Office you have contacted.	<input 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, consultant field surveys		
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		
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.)	11-6-09 Date

Pre-Construction Notification Form for NCDOT projects

A couple things to help you with this form...

1. Help & Example Text is provided in red throughout the PCN form.

If the box below is empty, follow the instructions below to enable hidden Text.



Steps to enable hidden text.

Tools, then select Options

Click on the "View" Tab

Under Formatting Marks, select Hidden Text then click OK.

The red text will not print when you print your PCN.

2. It is not necessary to fill out any of the blue sections.
3. Spell-check will not work in this form.
4. To avoid printing this instruction page, specify your print range from pages 1-11 when printing.

STORMWATER MANAGEMENT PLAN

Project: 33834.1.1

TIP No. B-4680

Wilson County

11/6/2009

Hydraulics Project Manager: W. Henry Wells Jr., P.E. (Sungate Design Group),
Marshall Clawson, P.E. (NCDOT Hydraulics Unit)

ROADWAY DESCRIPTION

The project B-4680 consists of constructing a new bridge 130 feet long to replace the existing bridge #122 in Wilson County on SR 1507 over Whiteoak Swamp. The total project length is 0.07 miles. The project creates impacts to Whiteoak Swamp, which is located in the Neuse River Basin. The project drainage systems consist of grated inlets with associated pipe systems, and rip rap energy dissipaters at the pipe outlets.

Jurisdiction Stream: Whiteoak Swamp

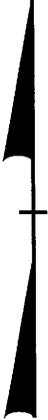
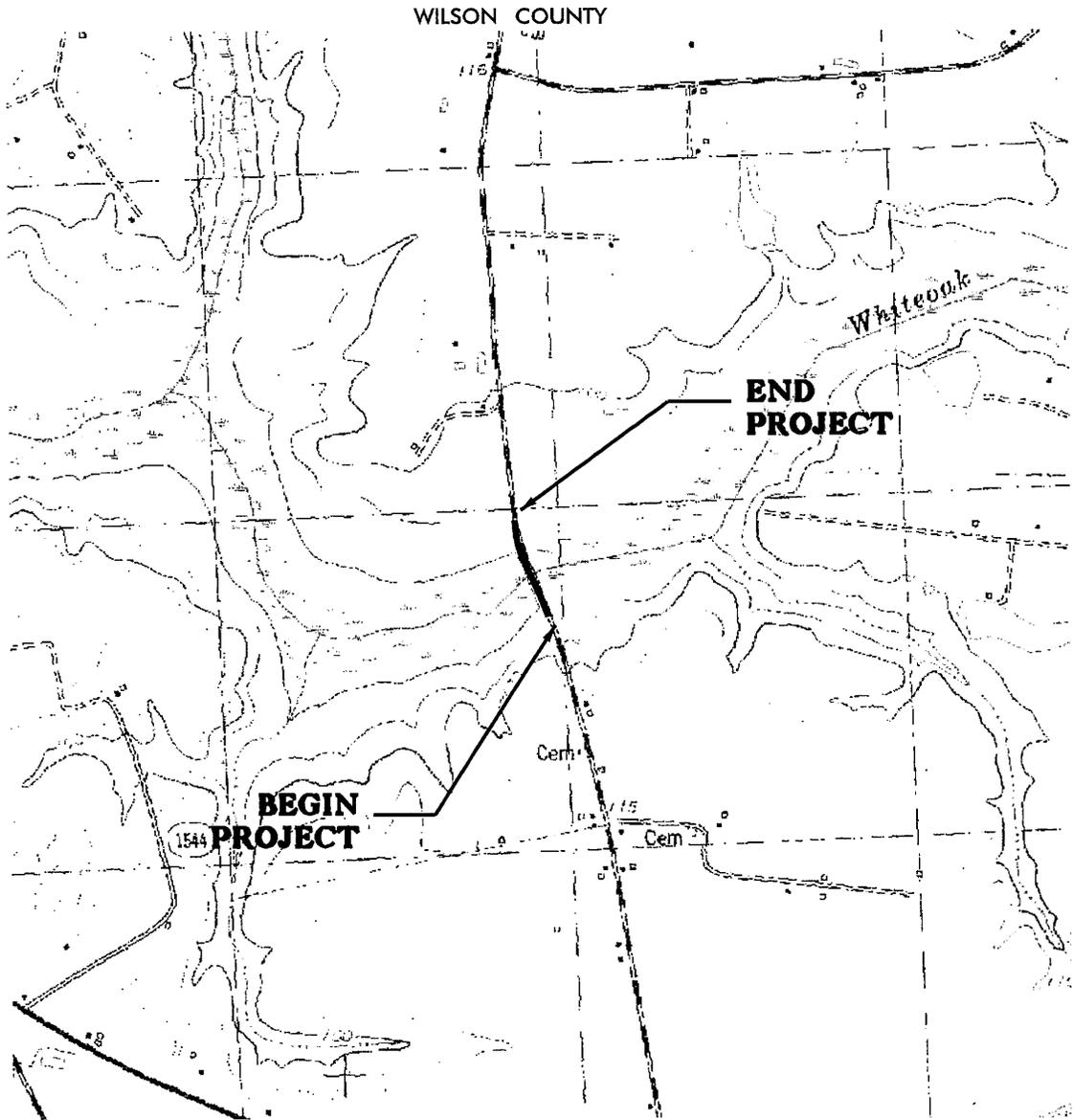
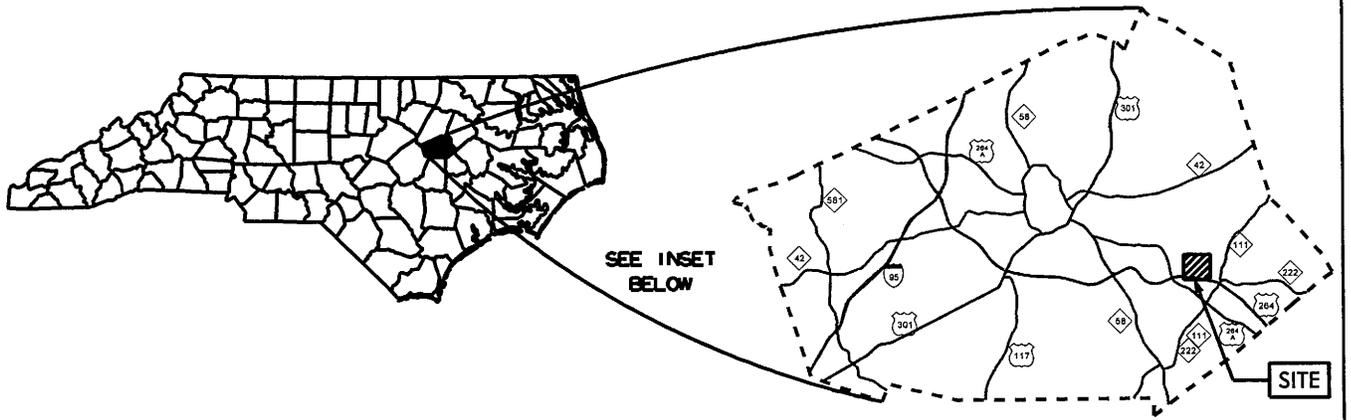
ENVIRONMENTAL DESCRIPTION

The project is located within the Neuse River Basin in Wilson County, which is not a CAMA county. There are extensive wetlands within the project limits. Whiteoak Swamp is subject to the Neuse River buffer rules. Impacts to the buffer have been minimized by discharging drainage systems outside the buffer zones and using rip rap energy dissipaters at the pipe outlets. Also, the roadway approach work has been reduced to minimize fill slope encroachment into the buffers.

BEST MANAGEMENT PRACTICES AND MAJOR STRUCTURES

The primary goal of Best Management Practices (BMPs) is to prevent degradation of the states surface waters by the location, construction and operation of the highway system. The BMPs are activities, practices and procedures taken to prevent or reduce stormwater pollution. The BMP measures used on this project to reduce stormwater impacts are:

- Rip rap energy dissipaters at pipe outlets.



WETLAND/STREAM
IMPACTS

**N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
WILSON COUNTY**

PROJECT: 33834.1.1 (B-4680)
BRIDGE NO. 122 ON SR 1507
OVER WHITEOAK SWAMP

Permit Drawing 10
SHEET ___ OF ___ Sheet 1 of 10-7-09

PROPERTY OWNERS

WETLAND/ STREAM IMPACTS
NAMES AND ADDRESSES

PARCEL NO.	NAMES	ADDRESSES
1	SUE MATTOX ADAMS	ADDRESS
2	SUSAN WHITLEY KEEL	6519 GARDNERS SCHOOL RD STANTONSBURG, NC 27883
3	SUSIE B. P. BOLT	7022 GARDNERS SCHOOL RD STANTONSBURG, NC 27883
4	LURLINE BASS WHELESS	208 RAMBLEWOOD DR RALEIGH, NC 27609

NCDOT

**DIVISION OF HIGHWAYS
WILSON COUNTY**

**PROJECT: 33834.1.1 (B-4680)
BRIDGE NO. 122 ON SR 1507
OVER WHITEOAK SWAMP**

SHEET

OF

10/7/09

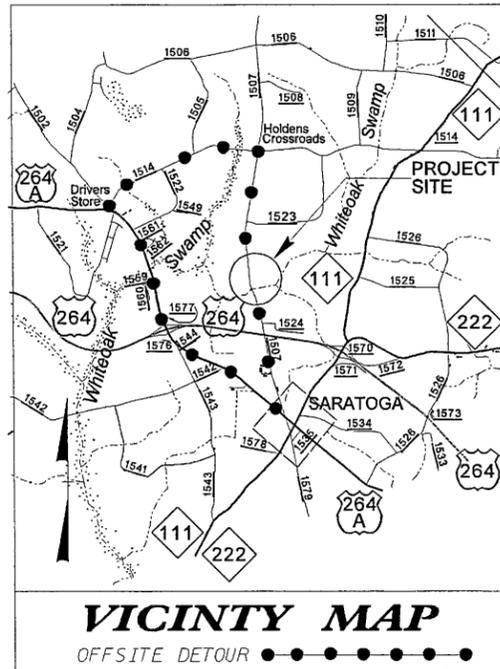
Permit Drawing
Sheet 3 of 10

09/20/09

TIP PROJECT: B-4680

CONTRACT: 202330

See Sheet 1-A For Index of Sheets



VICINITY MAP
OFFSITE DETOUR

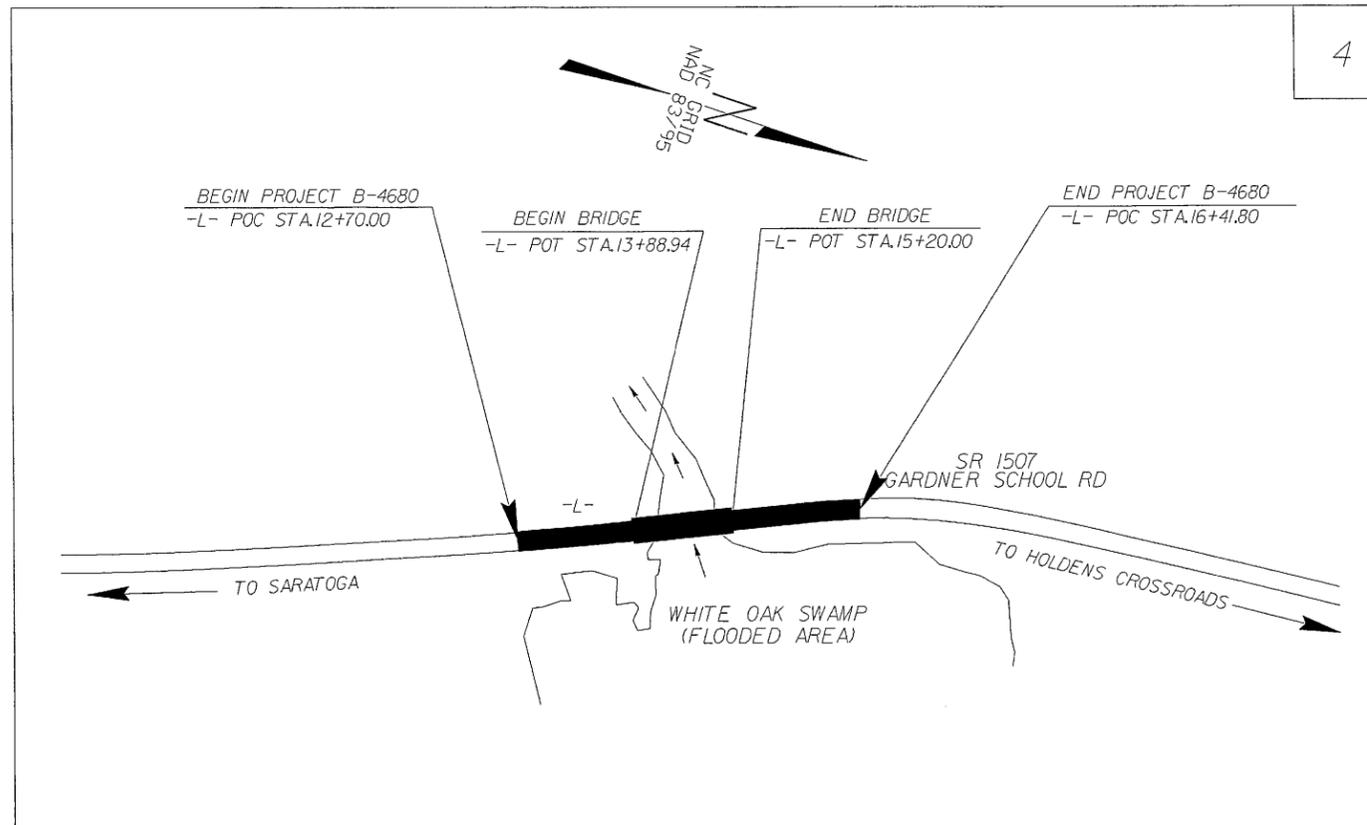
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

WILSON COUNTY

LOCATION: BRIDGE No. 122 ON SR 1507
OVER WHITEOAK SWAMP

TYPE OF WORK: GRADING, DRAINAGE, PAVING AND STRUCTURE

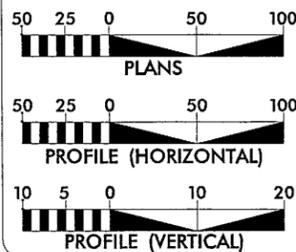
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4680	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
33834.1.1	BRZ-1507(3)	P.E.	
33834.2.1	BRZ-1507(3)	R/W & UTIL	
33834.3.1	BRZ-1507(3)	CONST.	



WETLAND/STREAM IMPACTS

NOTE: SUB REGIONAL TIER DESIGN GUIDELINES FOR BRIDGE PROJECTS WAS USED

GRAPHIC SCALES



DESIGN DATA

ADT 2010 = 1107
 ADT 2030 = 1700
 DHV = 10 %
 D = 60 %
 T = 3 % *
 **V = 60 MPH
 CLASSIFICATION = Local
 * TTST 1% DUAL 2%

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-4680 = 0.045 MILES
 LENGTH STRUCTURE TIP PROJECT B-4680 = 0.025 MILES
 TOTAL LENGTH TIP PROJECT B-4680 = 0.070 MILES

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

2006 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
FEBRUARY 20, 2009

LETTING DATE:
FEBRUARY 16, 2010

JASON MOORE, PE
PROJECT ENGINEER

BRYAN KEY, PE
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.

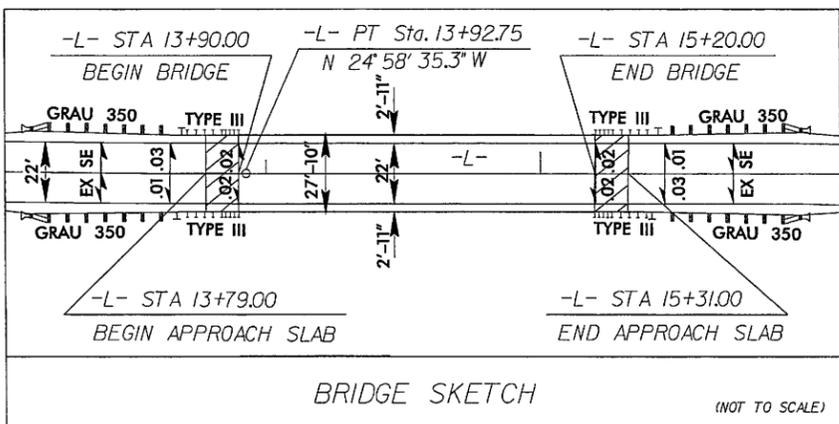
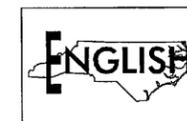
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA



STATE HIGHWAY DESIGN ENGINEER

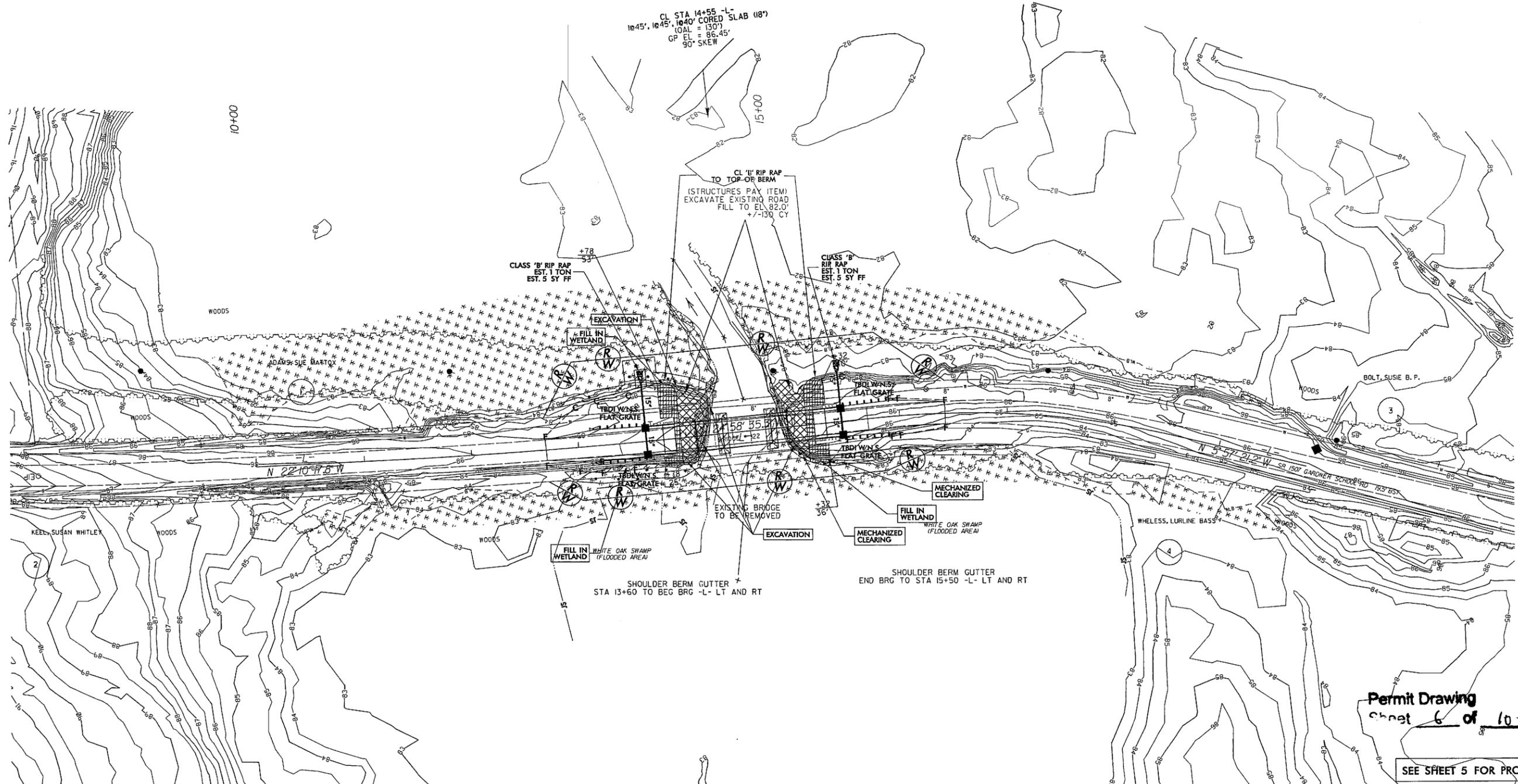
8/17/99

PROJECT REFERENCE NO. B-4680		SHEET NO. 4	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION			



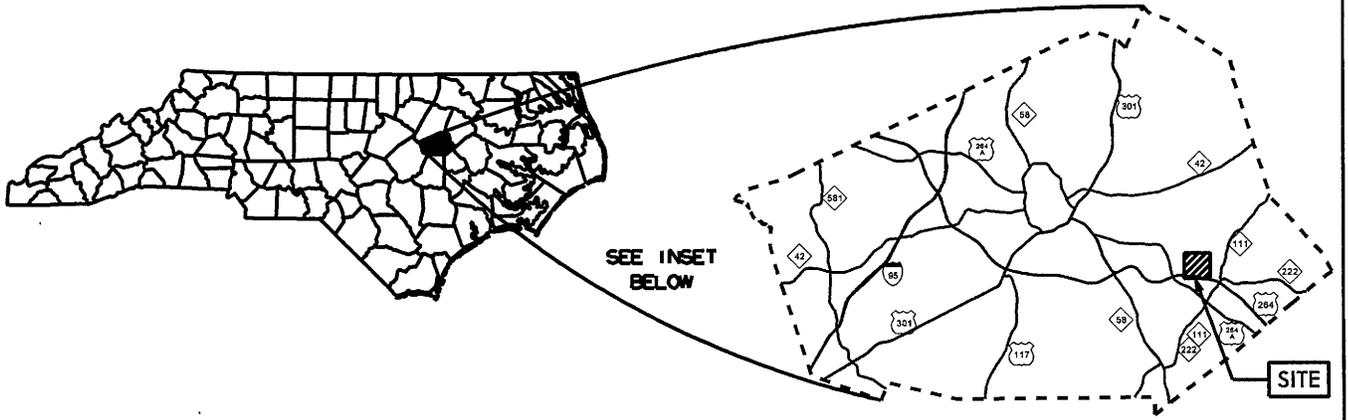
- DENOTES EXCAVATION IN WETLAND
- DENOTES FILL IN WETLAND
- DENOTES MECHANIZED CLEARING
- DENOTES TEMPORARY IMPACTS IN SURFACE WATER

REVISIONS



Permit Drawing sheet 6 of 10

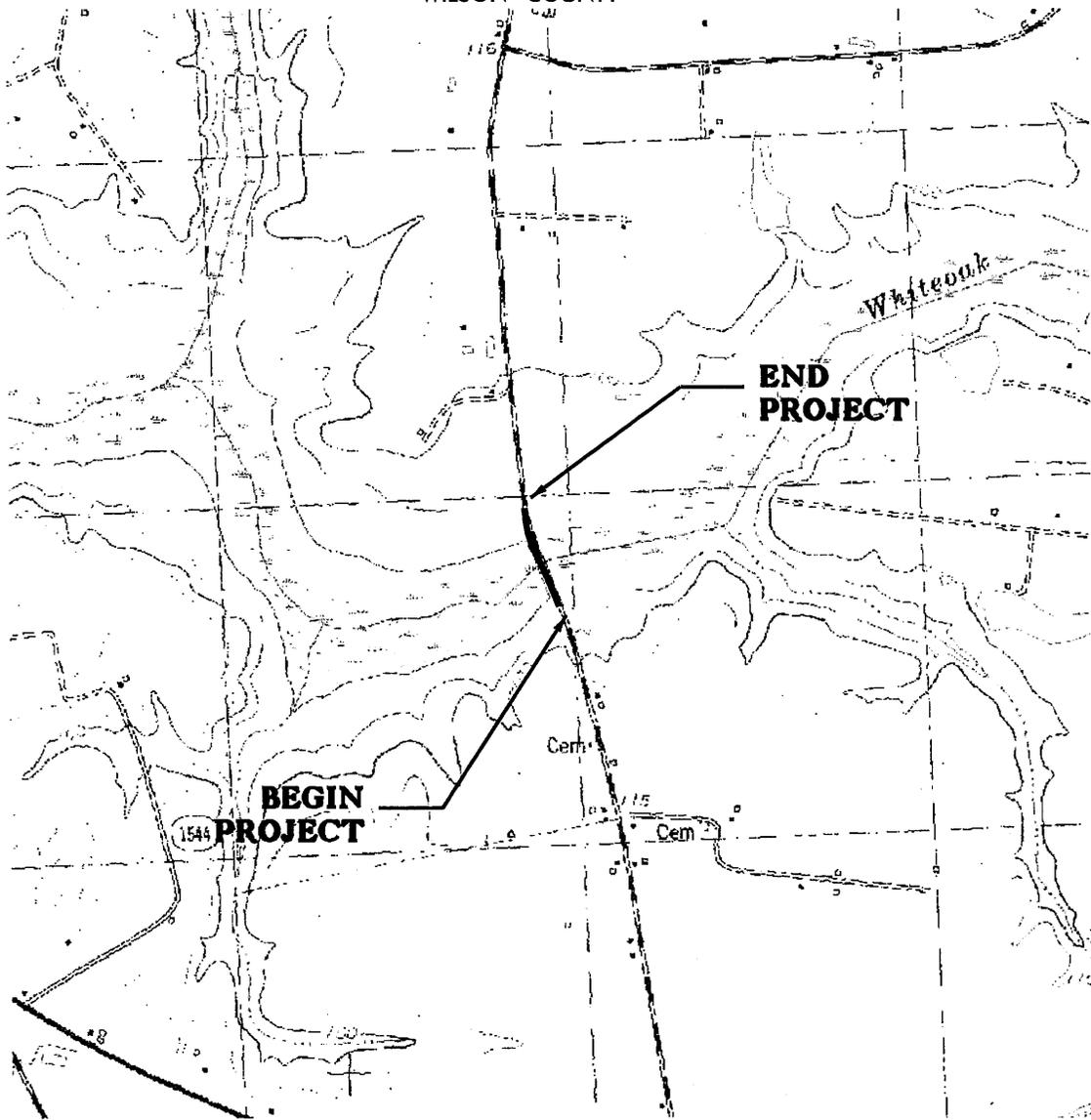
SEE SHEET 5 FOR PROFILE



SEE INSET
BELOW

SITE

WILSON COUNTY



BUFFER IMPACTS

N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
WILSON COUNTY

PROJECT: 33834.1.1 (B-4680)
BRIDGE NO. 122 ON SR 1507
OVER WHITEOAK SWAMP

Buffer Drawing
SHEET ___ OF ___ Sheet 1 of 7
10-7-09

PROPERTY OWNERS
BUFFER IMPACTS
NAMES AND ADDRESSES

PARCEL NO.	NAMES	ADDRESSES
3	SUSIE B. P. BOLT	7022 GARDNERS SCHOOL RD STANTONSBURG, NC 27883

NCDOT
DIVISION OF HIGHWAYS
WILSON COUNTY

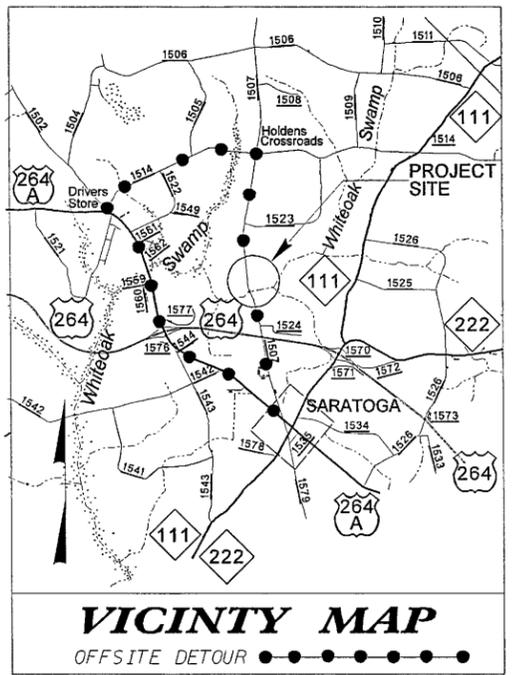
PROJECT: 33834.1.1 (B-4680)
BRIDGE NO. 122 ON SR 1507
OVER WHITEOAK SWAMP

SHEET OF 10/7/09

Buffer Drawing
Sheet 4 of 7

09/08/99
 CONTRACT: 202330
 TIP PROJECT: B-4680
 SYSTEMS
 DESIGN
 PERMITS

See Sheet 1-A For Index of Sheets



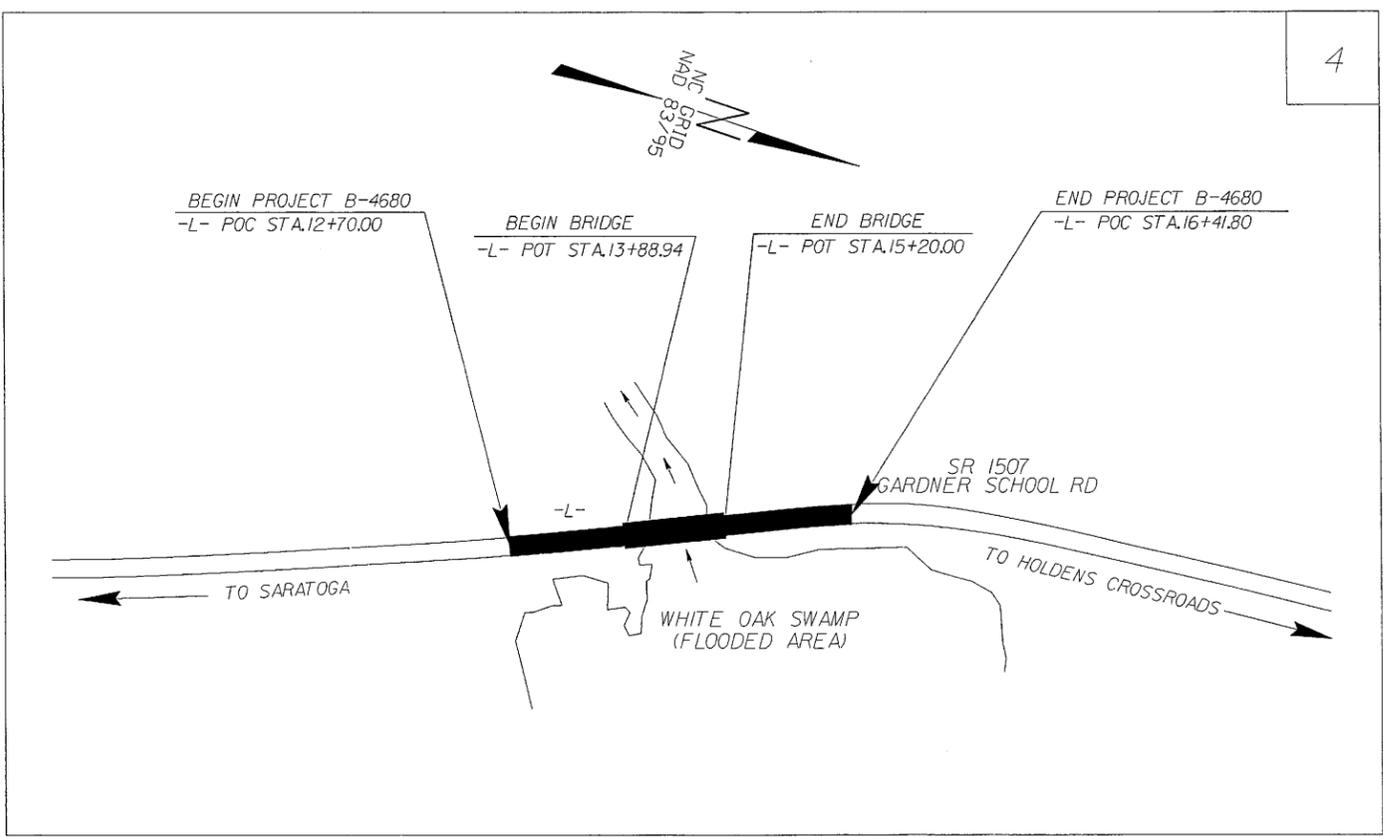
STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

WILSON COUNTY

**LOCATION: BRIDGE No. 122 ON SR 1507
 OVER WHITEOAK SWAMP**

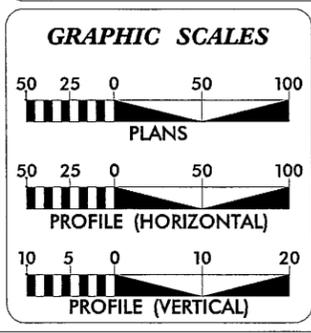
TYPE OF WORK: GRADING, DRAINAGE, PAVING AND STRUCTURE

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4680	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
33834.1.1	BRZ-1507(3)	P.E.	
33834.2.1	BRZ-1507(3)	RW & UTIL	
33834.3.1	BRZ-1507(3)	CONST.	



**BUFFER ZONE
 IMPACTS**

NOTE: SUB REGIONAL TIER DESIGN GUIDELINES FOR BRIDGE PROJECTS WAS USED



DESIGN DATA

ADT 2010 = 1107
ADT 2030 = 1700
DHV = 10 %
D = 60 %
T = 3 % *
**V = 60 MPH
CLASSIFICATION = Local
* TTST 1% DUAL 2%

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-4680 = 0.045 MILES
LENGTH STRUCTURE TIP PROJECT B-4680 = 0.025 MILES
TOTAL LENGTH TIP PROJECT B-4680 = 0.070 MILES

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

2006 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
 FEBRUARY 20, 2009

LETTING DATE:
 FEBRUARY 16, 2010

JASON MOORE, PE
 PROJECT ENGINEER

BRYAN KEY, PE
 PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

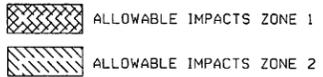
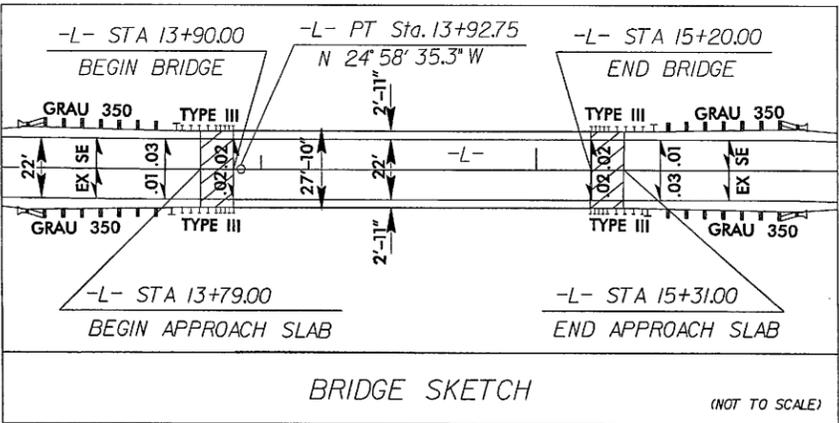
ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.

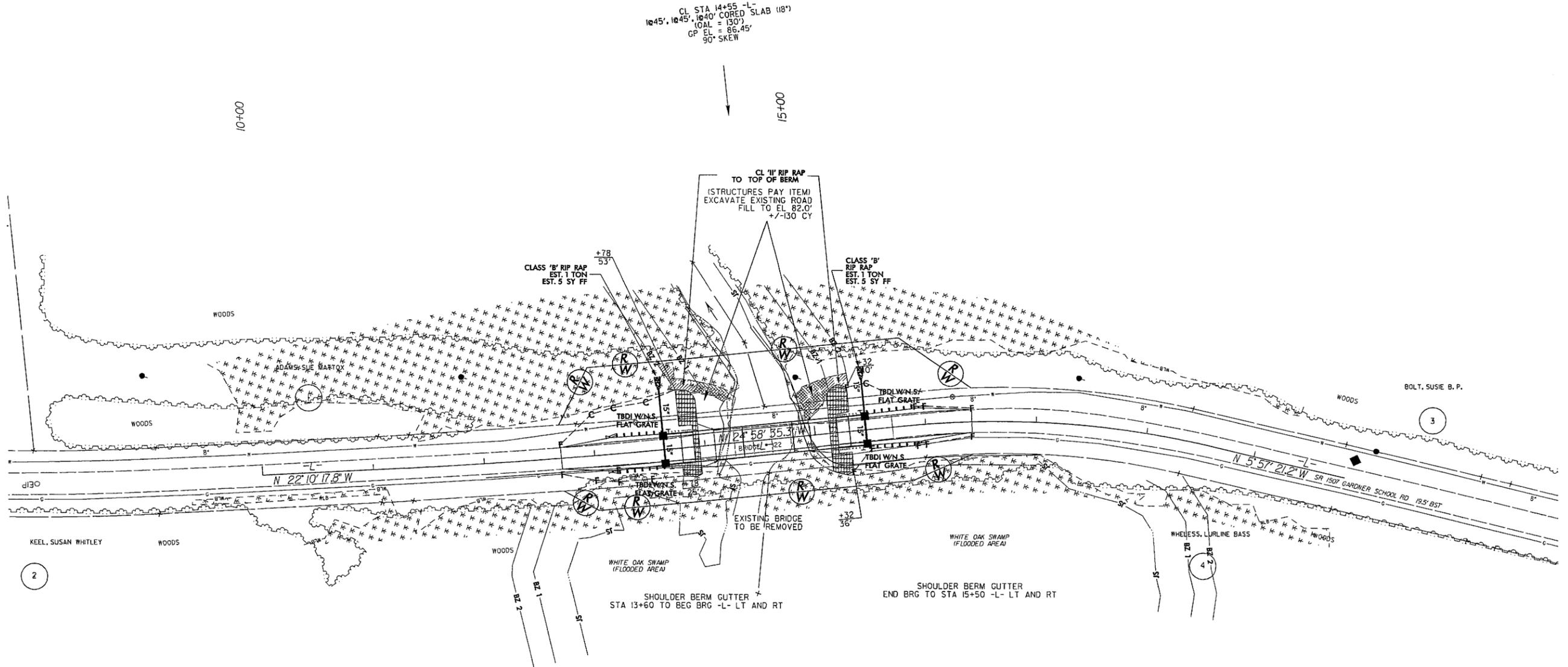
**DIVISION OF HIGHWAYS
 STATE OF NORTH CAROLINA**

Buffer Drawing
 Sheet **5** of **7** P.E.
 STATE HIGHWAY DESIGN ENGINEER

PROJECT REFERENCE NO. B-4680	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	



CL STA 14+55 -L-
 1045', 1045', 1040' CORED SLAB (18")
 (OAL = 130")
 GP EL = 86.45'
 90° SKEW



REVISIONS

Buffer Drawing
 Sheet 6 of 7

SEE SHEET 5 FOR PROFILE

8/17/99

 SYSTEMS

09/08/99

See Sheet 1-A For Index of Sheets

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

WILSON COUNTY

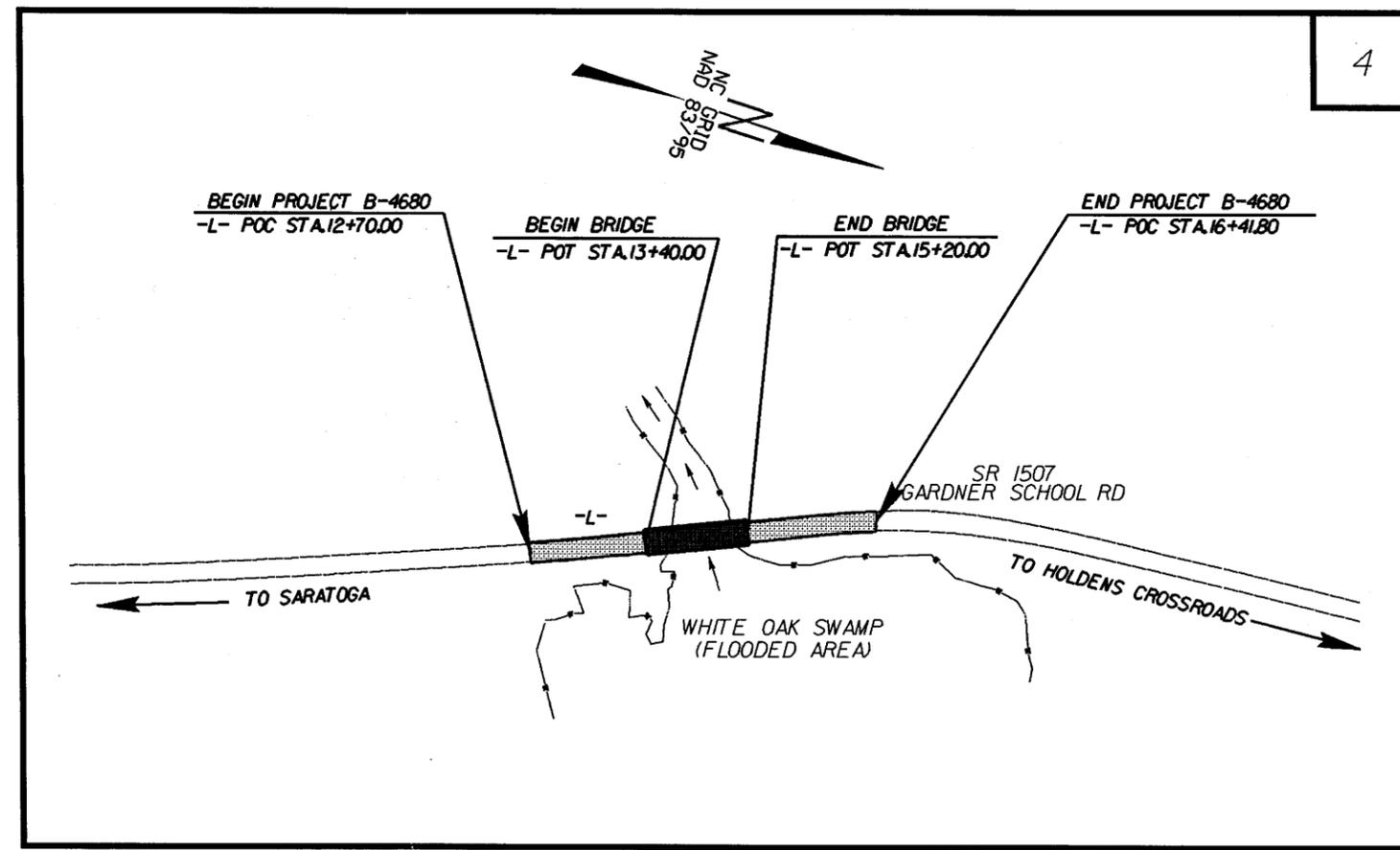
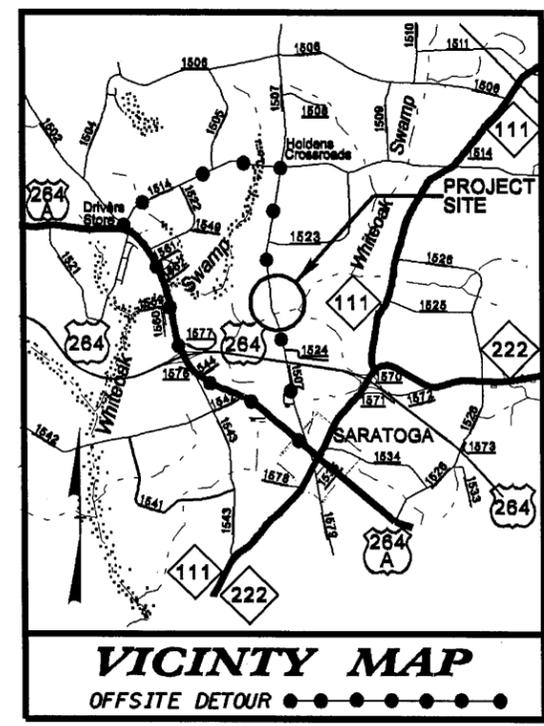
LOCATION: BRIDGE No. 122 ON SR 1507
OVER WHITEOAK SWAMP

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

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4680	1	
STATE PROJ. NO.	P.A. PROJ. NO.	DESCRIPTION	
33834.1.1	BRZ-1507(3)	P.E.	
33834.2.1	BRZ-1507(3)	RAW & UTIL	



TIP PROJECT: B-4680



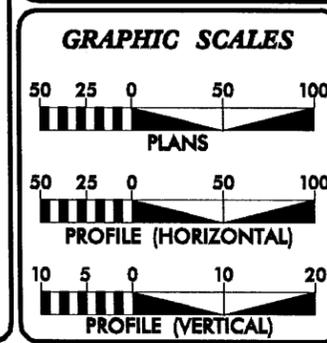
NOTE: SUB REGIONAL TIER DESIGN GUIDELINES FOR BRIDGE PROJECTS WAS USED

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

06-MAR-2009 14:33
r:\p\ogdway\proj\01\B4680_rdy_tsh.dgn
\$\$\$\$\$USERNAME\$\$\$\$\$

CONTRACT:



DESIGN DATA

ADT 2010 =	1107
ADT 2030 =	1700
DHV =	10 %
D =	60 %
T =	3 % *
**V =	60 MPH
CLASSIFICATION =	Local
* TTST 1% DUAL 2%	

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-4680 =	0.045 MILES
LENGTH STRUCTURE TIP PROJECT B-4680 =	0.025 MILES
TOTAL LENGTH TIP PROJECT B-4680 =	0.070 MILES

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

2006 STANDARD SPECIFICATIONS	
RIGHT OF WAY DATE:	JASON MOORE, PE PROJECT ENGINEER
February 20, 2009	
LETTING DATE:	BRYAN KEY, PE PROJECT DESIGN ENGINEER
February 16, 2010	

HYDRAULICS ENGINEER

P.E.

ROADWAY DESIGN ENGINEER

P.E.

**DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA**

STATE HIGHWAY DESIGN ENGINEER

6/2/09

SURVEY CONTROL SHEET B4680

PROJECT REFERENCE NO.	SHEET NO.
B-4680	I-C
Location and Surveys	

BASELINE DATA

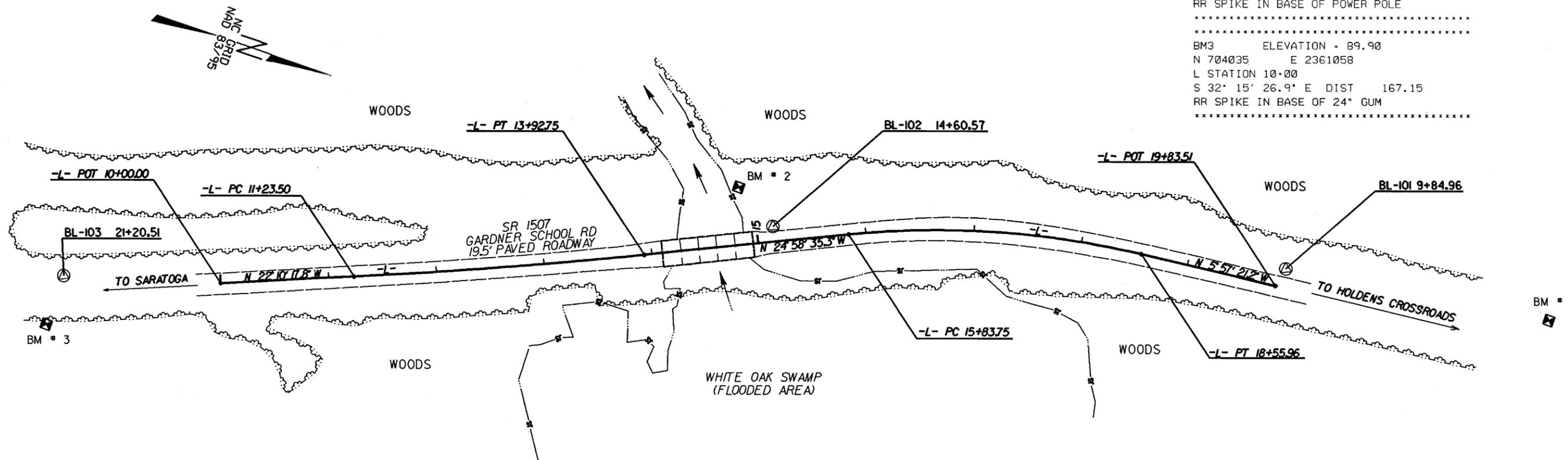
BL POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
1	GPS B4680-1	705587.5260	2360617.1230	87.18	OUTSIDE PROJECT LIMITS	
101	BL-101	705102.7330	2360629.8880	85.71	OUTSIDE PROJECT LIMITS	
102	BL-102	704642.4330	2360749.5940	85.79	15+15.14	14.21 LT
103	BL-103	704036.0620	2361010.0290	85.98	OUTSIDE PROJECT LIMITS	
104	BL-104	703562.5846	2361162.5095	101.67	OUTSIDE PROJECT LIMITS	

BENCHMARK DATA

 BM1 ELEVATION = 86.83
 N 705348 E 2360594
 L STATION 19+84
 N 12° 07' 18.0" W DIST 255.34
 RR SPIKE IN BASE OF POWER POLE

 BM2 ELEVATION = 84.42
 N 704601 E 2360725
 L STATION 14+87 54 LEFT
 RR SPIKE IN BASE OF POWER POLE

 BM3 ELEVATION = 89.90
 N 704035 E 2361058
 L STATION 10+00
 S 32° 15' 26.9" E DIST 167.15
 RR SPIKE IN BASE OF 24" GUM



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "GPS B4680-1"
 WITH NAD 83/95 STATE PLANE GRID COORDINATES OF
 NORTHING: 705587.526 (FT) EASTING: 2360617.123 (FT)
 THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99990199
 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "GPS B4680-1" TO L- STATION 10+00.00 IS
 S 13° 58' 45.9" E 1454.23 FT
 ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
 VERTICAL DATUM USED IS NAD 88

NOTES:

- THE CONTROL DATA FOR THIS PROJECT CAN BE FOUND ELECTRONICALLY BY SELECTING PROJECT CONTROL DATA AT:
[HTTP://WWW.NCDOT.ORG/DOH/PRECONSTRUCT/HIGHWAY/LOCATION/PROJECT/](http://www.ncdot.org/DOH/PRECONSTRUCT/HIGHWAY/LOCATION/PROJECT/)
 THE FILES TO BE FOUND ARE AS FOLLOWS:
 B4680_LS_CONTROL_080912.TXT
 SITE CALIBRATION INFORMATION HAS NOT BEEN PROVIDED FOR THIS PROJECT. IF FURTHER INFORMATION IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
- ⊙ INDICATES GEODETIC CONTROL MONUMENTS USED OR SET FOR HORIZONTAL PROJECT CONTROL BY THE NCDOT LOCATION AND SURVEYS UNIT.
 PROJECT CONTROL ESTABLISHED USING GLOBAL POSITIONING SYSTEM.
 NETWORK ESTABLISHED FROM NGS ONLINE POSITIONING USER SERVICE (OPUS)

NOTE: DRAWING NOT TO SCALE

06-MAR-2009 14:33
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 P:\PROJECTS\B4680\1s_1c_080912.dgn

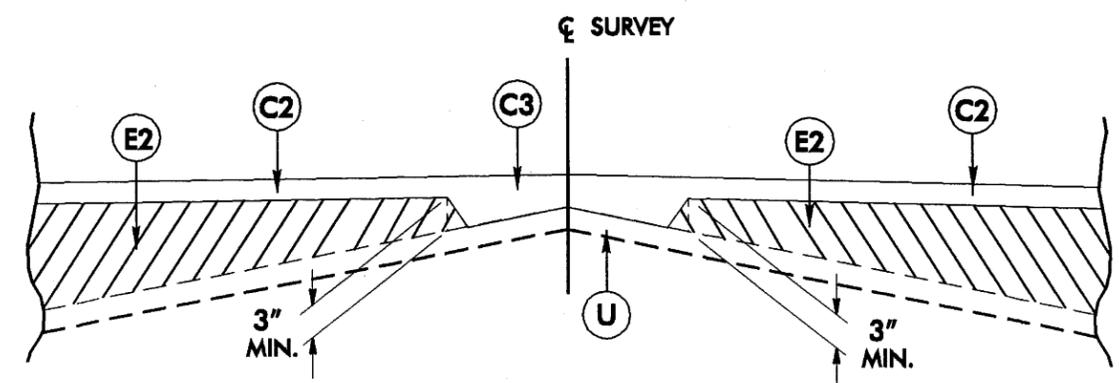
6/2/99

06-MAR-2009 14:33
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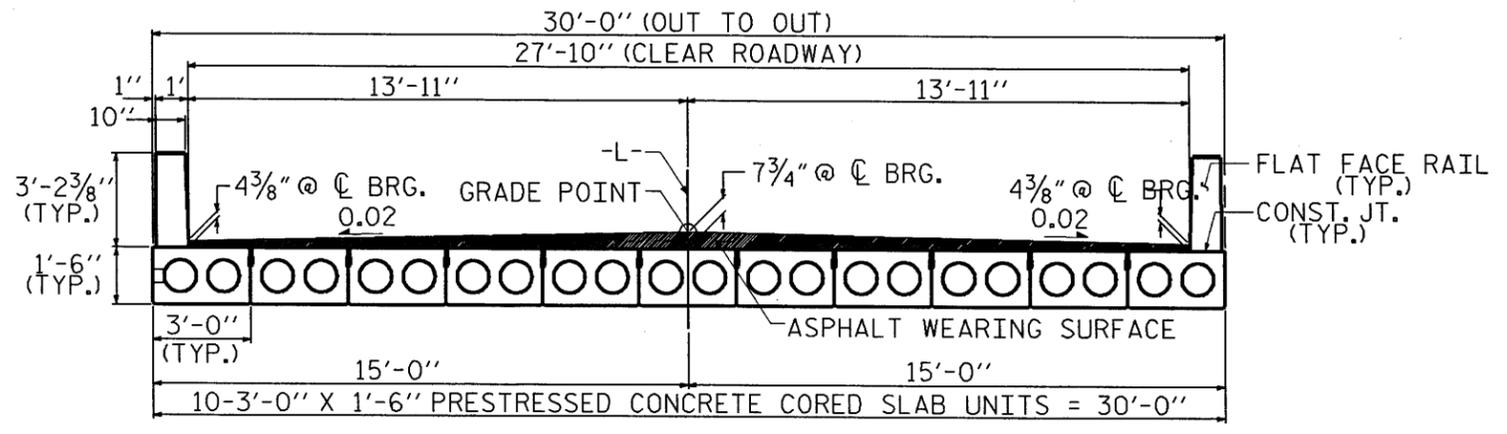
PROJECT REFERENCE NO. B-4680	SHEET NO. 2
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
PRELIMINARY PLANS <small>DO NOT USE FOR CONSTRUCTION</small>	

PAVEMENT SCHEDULE

C2	PROP. APPROX. 2½" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.	E2	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5½" IN DEPTH.
C3	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 1½" IN DEPTH.	T	EARTH MATERIAL.
E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.	U	EXISTING PAVEMENT.
NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.		W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE STANDARD WEDGING DETAIL BELOW).



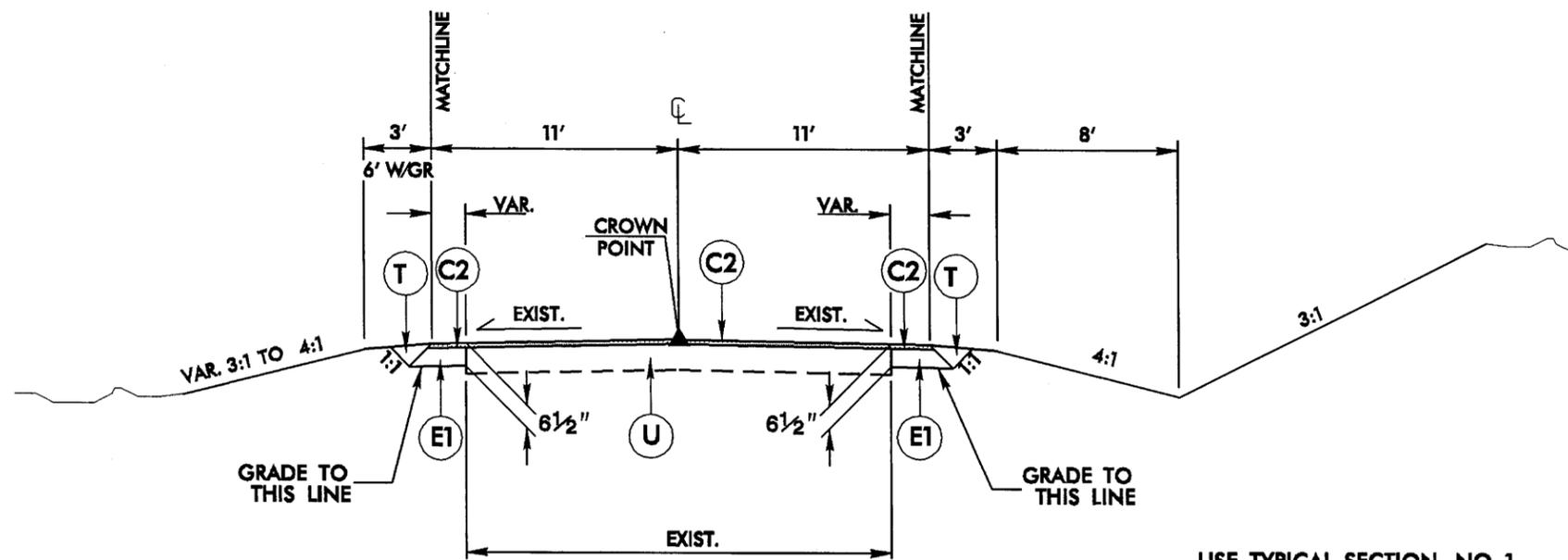
Detail Showing Method of Wedging



USE STRUCTURE TYPICAL SECTION

-L- STA 13+90.00 TO STA 15+20.00

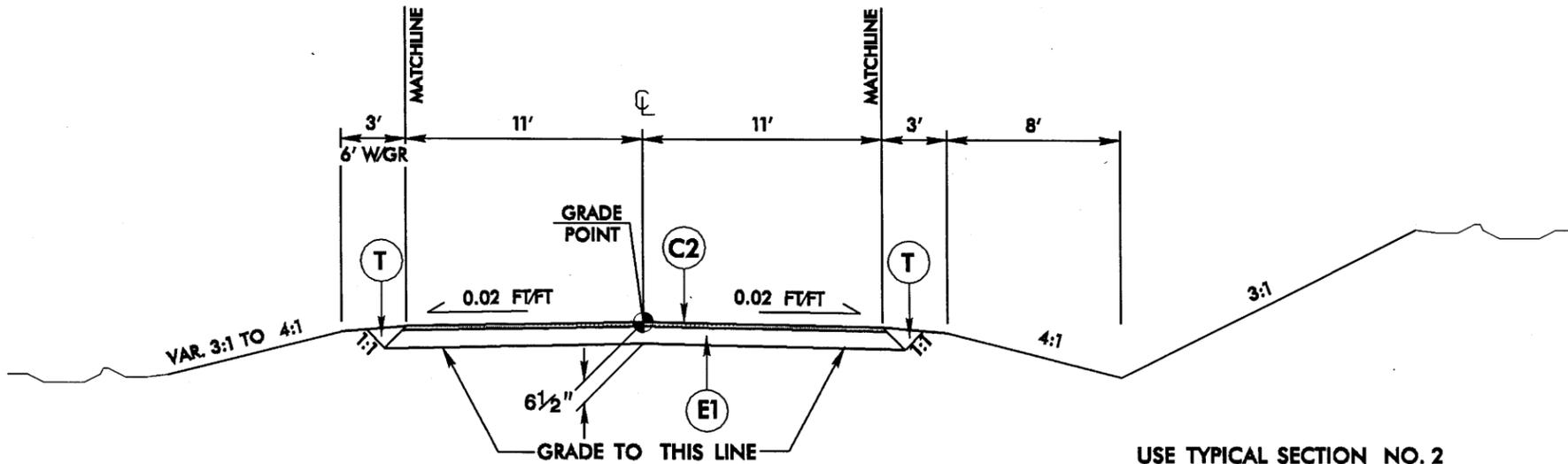
PROJECT REFERENCE NO. B-4680	SHEET NO. 2-A
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	



TYPICAL SECTION NO. 1

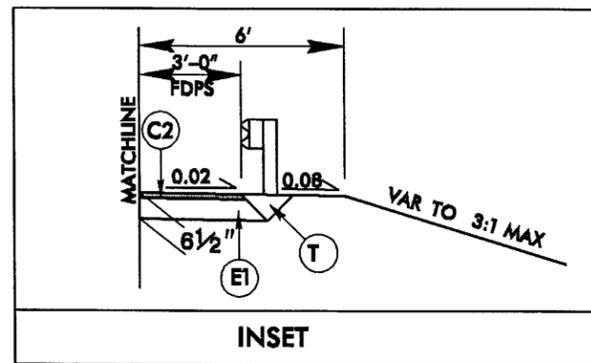
USE TYPICAL SECTION NO. 1
 -L- STA 12+70.00 TO STA 13+00.00
 -L- STA 15+50.00 TO STA 16+41.80
 USE INSET IN GUARDRAIL LOCATIONS

C2	2 1/2" SF9.5A
C3	VAR. DEPTH SF9.5A
E1	4" B25.0B
E2	VAR. DEPTH B25.0B
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
W	WEDGING



TYPICAL SECTION NO. 2

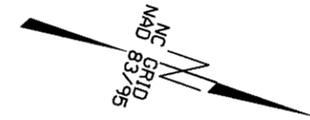
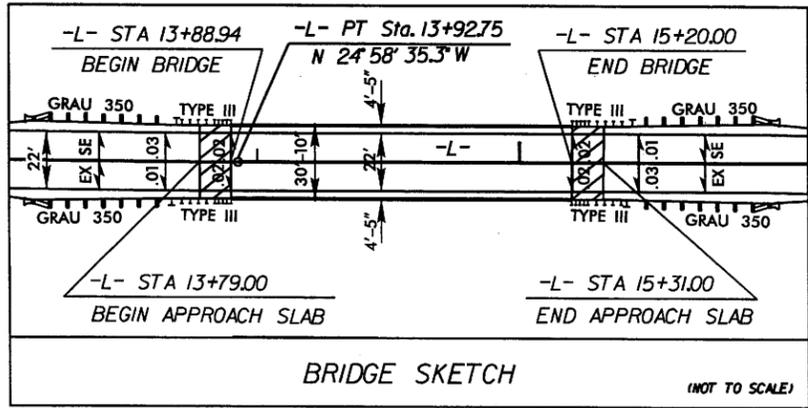
USE TYPICAL SECTION NO. 2
 -L- STA 13+00.00 TO STA 13+90.00 (BEGIN BRIDGE)
 -L- STA 15+20.00 (END BRIDGE) TO STA 15+50.00
 USE INSET IN GUARDRAIL LOCATIONS



INSET

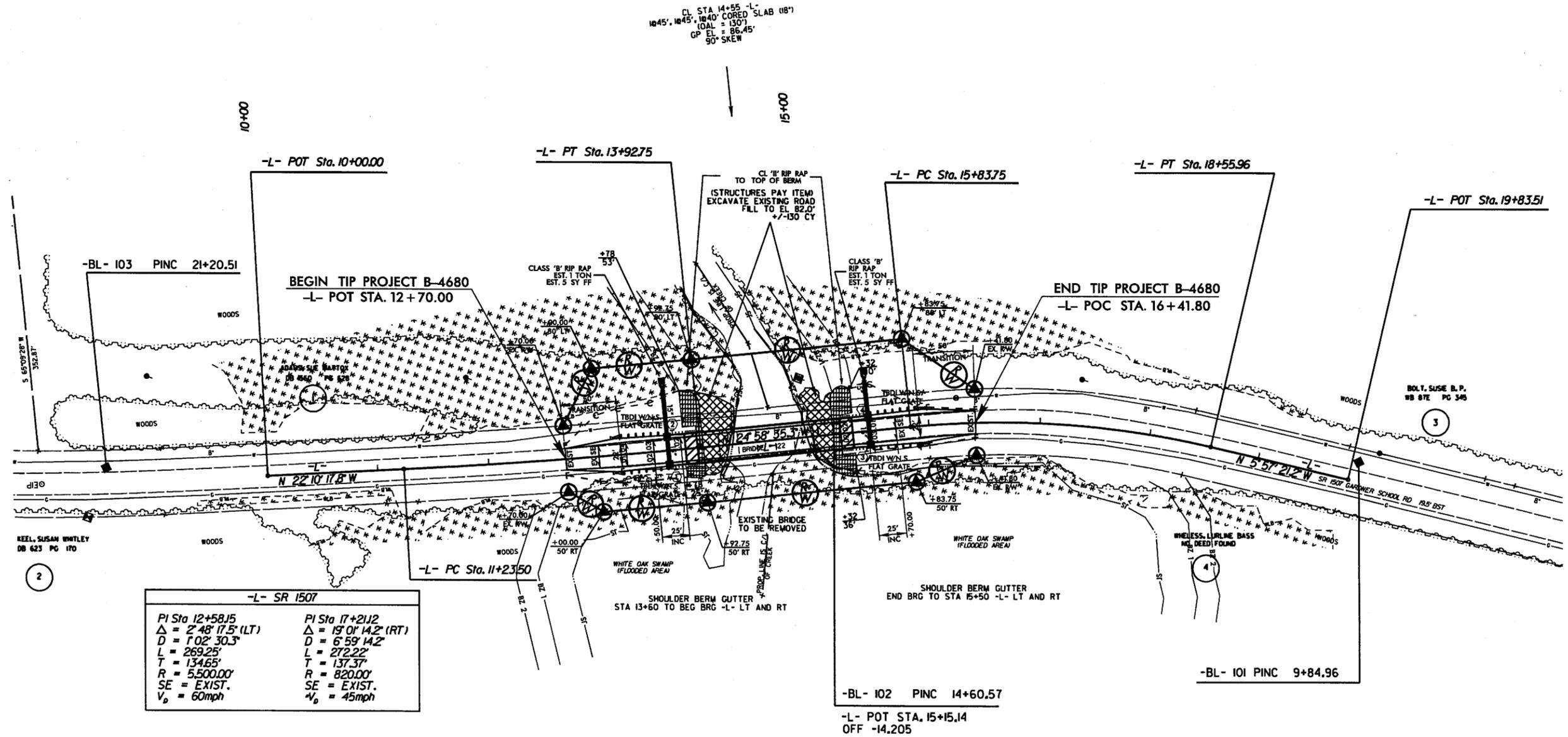
8/17/99

PROJECT REFERENCE NO. B-4680	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



CL STA 14+55 -L-
1045', 1045', 1040' CORED SLAB (18')
TOTAL = 130'
GP EL = 86.45'
90° SKEW

REVISIONS



-L- SR 1507	
PI Sta 12+58.15	PI Sta 17+21.12
$\Delta = 2' 48'' 17.5'' (LT)$	$\Delta = 19' 01'' 14.2'' (RT)$
$D = 1' 02'' 30.3''$	$D = 6' 59'' 14.2''$
$L = 269.25'$	$L = 272.22'$
$T = 134.65'$	$T = 137.37'$
$R = 5,500.00'$	$R = 820.00'$
SE = EXIST.	SE = EXIST.
$V_p = 60\text{mph}$	$V_p = 45\text{mph}$

SEE SHEET 5 FOR PROFILE
SEE SHEET S-1 TO S-21 FOR STRUCTURE PLANS

5/14/99

06-MAR-2009 14:33
R:\Roadway\Projects\B4680_rdy_pfl.dgn

PROJECT REFERENCE NO. B-4680	SHEET NO. 5
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS <small>DO NOT USE FOR CONSTRUCTION</small>	



-L- SR 1507

BM 1 N: 705348 E: 2360594
-BL- STA. 7+38 OS 29' RT
ELEV = 86.83'
RR SPIKE IN BASE OF POWER POLE

BM 2 N: 704600 E: 2360725
-L- STA. 14+87.49 OS 53.72' LT
ELEV = 84.43'
RR SPIKE IN BASE OF POWER POLE

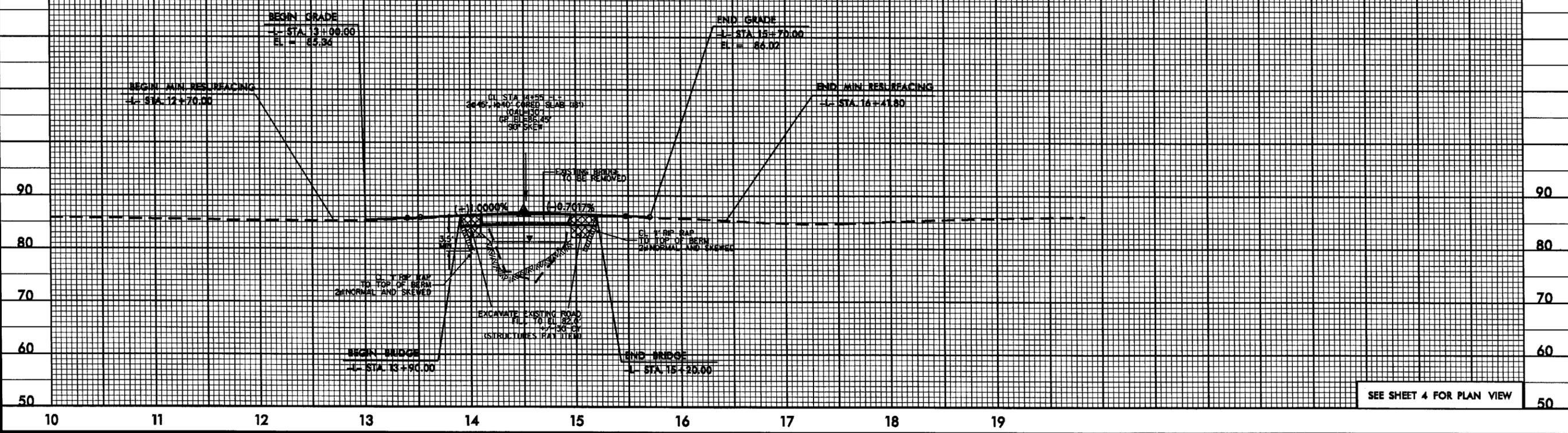
BM 3 N: 704035 E: 2361057
-BL- STA. 21+36 OS 44' LT
ELEV = 89.90'
RR SPIKE IN BASE OF 24' GUM TREE

BRIDGE HYDRAULIC DATA

DESIGN DISCHARGE = 2800 CFS
DESIGN FREQUENCY = 25 YRS
DESIGN HW ELEVATION = 86.1 FT
BASE DISCHARGE = 400 CFS
BASE FREQUENCY = 100 YRS
BASE HW ELEVATION = 86.6 FT
OVERTOPPING DISCHARGE = 2050 CFS
OVERTOPPING FREQUENCY = 10 YRS
OVERTOPPING ELEVATION = 85.0 FT

DATE OF SURVEY =
W.S. ELEVATION AT DATE OF SURVEY = 87.75 FT

PI = 14+50.00
EL = 86.86'
VC = 195'
K = 115
V_o = 55 mph



SEE SHEET 4 FOR PLAN VIEW