

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE GOVERNOR

EUGENE A. CONTI, JR. SECRETARY

July 15, 2010

U. S. Army Corps of Engineers Regulatory Field Office 3331 Heritage Trade Drive, Suite 105 Wake Forest, NC 27587

ATTN:

Mr. Eric Alsmeyer

NCDOT Coordinator

Dear Sir,

Subject:

Application for Section 404 Nationwide Permit 33, 23, Section 401 Water **Ouality Certification, and Neuse Riparian Buffer Authorization** for the replacement of Bridge No. 19 over the Neuse River on SR 2000 (Falls of Neuse Road), State Project No. 8.2409971, Federal Aid Project No. BRSTP-2000(4), Division 5, T.I.P No. B-4660.

Debit \$240.00 from WBS No. 33822.1.1

The North Carolina Department of Transportation (NCDOT) proposes to replace bridge No. 19 over the Neuse River on SR 2000 (Falls of Neuse Road).

Please see the enclosed copies of the Pre-Construction Notification (PCN), Stormwater Management Plan, Preliminary Jurisdictional Determination Form, permit drawings, and design plans for the above-referenced project. The Programmatic Categorical Exclusion (PCE) for this was completed project in August 2008. Additional copies are available upon request.

There will be 0.03 acres of wetland impacts from permanent fill and mechanized clearing. Due to the minimal amount of wetland impacts, the fact that the function of the wetland will not me compromised and the wetland is scrub/shrub and not a mature forest, NCDOT proposes no mitigation.

This project calls for a letting date of February 15, 2011 and a review date of January 4, 2011. However, the let date may advance as additional funds become available.

RALEIGH NC 27699-1598

TELEPHONE: 919-431-2000

FAX: 919-431-2001

WEBSITE: WWW.NCDOT.ORG

LOCATION: 4701 Atlantic Ave., Suite 116 Raleigh, NC 27604 A copy of this permit application will be posted on the NCDOT Website at: http://www.ncdot.org/doh/preconstruct/pe/. If you have any questions or need additional information, please call Sara Easterly at (919) 431-1605.

Sincerely

Gregory J. Thorpe, Ph.D.

Environmental Management Director, PDEA

W/attachment

Mr. Brian Wrenn, NCDWQ (5 Copies)

Mr. J. Wally Bowman, P.E., Division Engineer

Mr. Chris Murray, DEO

W/o attachment (see website for attachments)

Dr. David Chang, P.E., Hydraulics

Mr. Mark Staley, Roadside Environmental

Mr. Greg Perfetti, P.E., Structure Design

Mr. Victor Barbour, P.E., Project Services Unit

Mr. Jay Bennett, P.E., Roadway Design

Mr. Majed Alghandour, P. E., Programming and TIP

Mr. Art McMillan, P.E., Highway Design

Mr. Scott McLendon, USACE, Wilmington

Mr. Gary Jordan, USFWS

Mr. Travis Wilson, NCWRC

Mr. Tracy Walter, P.E., 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.	a. Type(s) of approval sought from the Corps:					
1b.	Specify Nationwide Permit (NWP)	number: 2	3 33 or General Permit (GP)	number:		
1c.	Has the N WP or GP number been	n verified b	y the Corps?	☐ Yes	⊠ No	
1d.	Type(s) of approval sought from t	he DWQ (check all that apply):			
		n – Regula	r Non-404 Jurisdictiona	al General Permi	t	
	☐ 401 Water Quality Certification	n – Expres	s 🛚 🖾 Riparian Buffer Autho	orization		
1e.		Is this notification solely for the record because written approval is not required? For the record only for DWQ 401 Certification:			only for Corps Permit:	
			☐ Yes	☐ Yes	⊠ No	
1f.	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.			☐ Yes	⊠ No	
1g	1g. Is the project located in any of NC's twenty coastal counties. If yes, answer 1h below.			☐ Yes	⊠ No	
1h	1h. Is the project located within a NC DCM Area of Environmental Concern (AEC)?			☐ Yes	⊠ No	
2.	Project Information					
2a	Name of project:	Replacm	ent of Bridge 19 over the Neus River	on SR 2000 (Fa	lls of Neuse Road)	
2b	. County:	Wake				
2c	Nearest municipality / town:	Raleigh				
2d	. Subdivision name:	not applic	cable			
2e	. NCDOT only, T.I.P. or state project no:	B-4660				
3.	Owner Information					
3a	. Name(s) on Recorded Deed:	North Ca	rolina Department of Transportation	·		
3b	. Deed Book and Page No.	not appli	cable			
30	. Responsible Party (for LLC if applicable):					
30	. Street address:	1598 Ma	il Service Center			
36	. City, state, zip:	Raleigh,	NC 27699-1598			
3f	Telephone no.:	(919) 43°	1-1605			
30	. Fax no.:	(919) 43	1-2002			
3h	. Email address:	seeaster	ly@ncdot.gov			

4.	Applicant Information (if different from owner)				
4a.	Applicant is:	☐ Agent	Other, specify:		
4b.	Name:	not applicable			
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	n (if applicable)			
5a.	Name:	not applicable			
5b.	Business name (if applicable):				
5c.	Street address:				
5d.	City, state, zip:				
5e.	Telephone no.:				
5f.	Fax no.:				
5g.	Email address:				

В.	3. Project Information and Prior Project History					
1.	Property Identification					
1a.	Property identification no. (tax PIN or parcel ID):	not applicable				
1b.	Site coordinates (in decimal degrees):	Latitude: 35.9406 Longitude: - 78.5799 (DD.DDDDDD) (-DD.DDDDDD)				
1c.	Property size:	5 acres				
2.	Surface Waters					
2a.	Name of nearest body of water (stream, river, etc.) to proposed project:	Neuse River				
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 lan application: Low density single family, cultivated land, and forest land	and use in the vicinity of the project at the time of this				
26		a managah si				
3D.	List the total estimated acreage of all existing wetlands on the 0.8	е ргорепу:				
3c.	List the total estimated linear feet of all existing streams (interm	mittent and perennial) on the property:	_			
3d.	Explain the purpose of the proposed project:					
	To replace a structurally deficient and functionally obsolete brid					
	Describe the overall project in detail, including the type of equi. The project involves replacing bridge No. 19 with a structure the include two 12-foot lanes, 4 foot shoulders and a 10-foot multi-with an off-site detour. NCDOT will also be constricting a green causeways will be used to construct the new bridge. Standard cranes will be used.	that is approximately 425-feet long. The new bridge will ti-use bike and pedestrian lane on the existing alignment enway path that will pass under the bridge. Two temporary				
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:	☐ Yes ☐ Unknown				
4b	. If the Corps made the jurisdictional determination, what type of determination was made?	☐ Preliminary ☐ Final				
4c	. If yes, who delineated the jurisdictional areas? Name (if known):	Agency/Consultant Company: Environmental Services Other:				
4d	. If yes, list the dates of the Corps jurisdictional determinations of Site visit on October 31, 2006	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?	☐ Yes ☐ Unknown				
5b	. If yes, explain in detail according to "help file" instructions.					
6.	Future Project Plans					
6a	Is this a phased project?	☐ Yes				
6b	o. If yes, explain.					

O Duc 1 1							
C. Proposed Impa	C. Proposed Impacts Inventory						
1. Impacts Summa	ary			- ,			
1a. Which sections v	were completed be	elow for your project ((check all that a	pply):			
Wetlands	⊠s	treams - tributaries	⊠ But	ffers			
Open Waters	; □ P	ond Construction					
2. Wetland Impact	ts					****	
If there are wetland i	mpacts proposed	on the site, then com	plete this quest	ion for each wetland a	rea impacte	d.	
2a. Wetland impact	2b.	2c.	2d.	2e. Type of jurisdi	ction	2f.	
number – Permanent (P) or Temporary (T)	Type of impact	Type of wetland (if known)	Forested	(Corps - 404 DWQ – non-404	, 10	Area of impact (acres)	
Site 1 ⊠ P □ T	Permament fill	Riparian	⊠ Yes □ No	☐ Corps☐ DWQ		0.01	
Site 2 P T	Mechanized Clearing	Riparian	⊠ Yes □ No	⊠ Corps □ DWQ		0.02	
Site 3 P T			☐ Yes ☐ No	☐ Corps ☐ DWQ			
Site 4 🔲 P 🔲 T			Yes	☐ Corps			
Site 4 [] 1 [] 1			│	DWQ			
Site 5 P T			│	│			
Site 6 P T			☐ Yes	☐ Corps			
	<u> </u>			2g. Total wetla r	nd impacts	0.03 Permanent 0 Temporary	
2h. Comments:							
3. Stream Impact							
If there are perennia question for all strea		ream impacts (includ	ing temporary ir	npacts) proposed on t	the site, then	complete this	
3a.	3b.	3c.	3d.	3e.	3f.	3g.	
Stream impact	Type of impact	Stream name	Perennial	Type of	Average	Impact length	
number - Permanent (P) or			(PER) or intermittent	jurisdiction (Corps - 404, 10	stream width	(linear feet)	
Temporary (T)			(INT)?	DWQ – non-404, other)	(feet)		
Site 1 DP T	Temporary Causeway #1	Neuse River	⊠ PER □ INT	⊠ Corps □ DWQ	100	100	
Site 2 ☐ P ⊠ T	Temporary Causeway #2	Neuse River		⊠ Corps □ DWQ	100	102	
Site 3 P T			☐ PER ☐ INT	☐ Corps			
Site 4 P T			□ PER	☐ Corps ☐ DWQ			
Site 5 P T			☐ PER	☐ Corps			
				DWQ			
Site 6 P T			│	☐ Corps☐ DWQ			
		1	L	otal stream and trib	utary impac	ts 0 Perm 202 Temp	
3i. Comments: Tota	3i. Comments: Total impact for Causeway #1 are 0.25 acres the total impact for Causeway #2 are 0.32 acres. Only one						

causeway	causeway at at time will be installed.									
4. Open	Water In	npacts								
If there are	propose	d impacts to lakes,	ponds, e	stuarie	es, tributari	es, sounds	, the Atlantic	Ocean,	or any other op	en water of
	en indivi	dually list all open w		ects be	elow.					
	4a. 4b. 4c.						4d.		4e.	
Open w impact nur		Name of waterbody		Tyrna	of impost		Matarbad	, tuno	Area of im	maat (aanaa)
Permanen		(if applicable)		Type of impact		Waterbod	y type	Area or iiii	pact (acres)	
Tempora		(ii applicable)				ļ				
01 🗆 P										
02	ПТ									
03 🗌 P	ТΠ									
04 🗌 P	Т									
	4f. Total open water impacts 0 Permanent 0 Temporary									
4g. Comm	ents:									
5. Pond	or Lake	Construction								
If nond or	lake con	struction proposed,	then com	nlete	the chart h	elow				
5a.	5b.	bardottori proposed,	5c.	picto	uio onait b	C1017.	5d.			5e.
Pond ID	Pro	pposed use or		tland	Impacts (a	cres)	Stream Impacts (feet)		ts (feet)	Upland (acres)
number	pui	rpose of pond	Flood	ed	Filled	Excavat ed	Flooded	Filled	Excavated	Flooded
P1										
P2										
		5f. Total								
5g. Comm	ents:									
5h. Is a dam high hazard permit required?			□Y	es	□No	If yes, perr	nit ID no	:		
5i. Expected pond surface area (acres):										
5j. Size o	of pond v	vatershed (acres):								
5k. Metho	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.			Neuse ■ Neuse Neuse ■ Neuse Neuse	☐ Tar-Pamlico	Other:	
Project is in which	protected basin?		Catawba	Randleman	—	
6b.	6c.	6d.	6e.	6f.	6g.	
Buffer impact number – Permanent (P) or Temporary (T)	Reason for impact	Stream name	Buffer mitigation required?	Zone 1 impact (square feet)	Zone 2 impact (square feet)	
B1 ⊠P□T	Bridge Impacts	Neuse River	☐ Yes ☑ No	1,019	386	
B2 ⊠ P □ T	Road Crossing	Neuse River	☐ Yes ☑ No	420	0	
ВЗ ⊠Р□Т	Greenway	Neuse River	☐ Yes ☑ No	5,679	4,761	
	6h. Total buffer impacts 7,118 5,147					
6i. Comments:						

D.	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 will span the river; an off site detour w used	ill be used. De	sign Sta	andards for Sensitive Waters will be		
1b.	Specifically describe measures taken to avoid or minimize t	he proposed im	pacts t	hrough construction techniques.		
<u> </u>	2:1 slopes in jurisdictional and buffer areas, and Best Mana outlets. Bridge end drains are located outside of buffer and the bridge. Also, a boardwalk spans the natural outlet ditch	wetlands. No	deck dr	ains are used on the roadway side of		
2.	Compensatory Mitigation for Impacts to Waters of the U	J.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	☐ Co	rps		
2c.	If yes, which mitigat ion 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					
За	. Name of Mitigation Bank: not applicable					
3b	. Credits Purchased (attach receipt and letter)	Туре		Quantity		
3с	. 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:	0 linear feet				
40	. If using stream mitigation, stream temperature:	☐ warm	Со	ol		
4d	. Buffer mitigation requested (DWQ only):	0 square feet				
4e	Riparian wetland mitigation requested:	0 acres				
4f.	Non-riparian wetland mitigation requested:	0 acres				
40	. Coastal (tidal) wetland mitigation requested:	0 acres				
4h	. Comments:					
5.	Complete if Using a Permittee Responsible Mitigation I	Plan				
58	ia. If using a permittee responsible mitigation plan, provide a description of the proposed mitigation plan.					

6. Buffe	Buffer Mitigation (State Regulated Riparian Buffer Rules) – required by DWQ						
	ne project result in an impact wind mitigation?	n buffer that requires	☐ Yes				
	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.						
	6c.	6d.		6e.			
Zone	Reason for impact	Total impact (square feet)	Multiplier	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. Comr	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?	⊠ Yes	□ No			
1b.	If yes, then is a diffuse flow plan included? If no, explain why. Comments: if yes, see attached permit drawings.	⊠ Yes	□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?	⊠ Yes	□No			
2c.	If this project DOES NOT require a Stormwater Management Plan, explain why:					
2d	2d. If this project DOES require a Stormwater Management Plan, then provide a brief, narrative description of the plan: See attached permit drawings.					
2e	. Who will be responsible for the review of the Stormwater Management Plan?		cal Government nwater Program Init			
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):	☐ Phase II ☐ NSW ☐ USMP ☐ Water Supp ☐ Other:	oly Watershed			
3с.	Has the approved Stormwater Management Plan with proof of approval been attached?	Yes	□No			
4.	DWQ Stormwater Program Review					
4a	Which of the following state-implemented stormwater management programs apply (check all that apply):	Coastal co HQW ORW Session La	unties aw 2006-246			
4t	Has the approved Stormwater Management Plan with proof of approval been attached?	☐ Yes	□No			
5.	DWQ 401 Unit Stormwater Review					
58	a. Does the Stormwater Management Plan meet the appropriate requirements?	⊠ Yes	□No			
5t	b. Have all of the 401 Unit submittal requirements been met?	⊠ Yes	□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?	⊠ Yes	□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)?	⊠ Yes	□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.)	⊠ Yes	□No		
	Comments:				
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)?	Yes	⊠ No		
2b	Is this an after-the-fact permit application?	☐ Yes	⊠ No		
2c.	If you answered "yes" to one or both of the above questions, provide an explanation of	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?	☐ Yes ⊠ No			
3b	b. 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 the proposed project, or available capacity of the subject facility.	arge) of wastewa	ter generated from		
	not applicable				

5.	i. Endangered Species and Designated Critical Habitat (Corps Requirement)					
5a.	Will this project occur in or near an area habitat?	a with federally protected species or	☐ Yes	⊠ No		
5b.	Have you checked with the USFWS coimpacts?	ncerning Endangered Species Act	☐ Yes [⊠ No		
5c.	If yes, ind icate the USFWS Field Office	you have contacted.	☐ Raleigh			
5d.	d. What data sources did you use to determine whether your site would impact Endangered Species or Designated Critical Habitat?					
	NHP, USFWS website, and the NCDOT mussel survey conducted in 2006. No dwarf wedgemussel species were found. The Biological Conclusion remains "No Effect"					
6.	Essential Fish Habitat (Corps Requi	rement)				
6a	Will this project occur in or near an area	a designated as essential fish habitat?	☐ Yes [⊠ No		
6b	b. What data sources did you use to determine whether your site would impact Essential Fish Habitat?					
	NMFS County Index					
7.	Historic or Prehistoric Cultural Reso	ources (Corps Requirement)				
7a	Will this project occur in or near an are governments have designated as having status (e.g., National Historic Trust des North Carolina history and archaeology	ng historic or cultural preservation signation or properties significant in	☐ Yes	⊠ No		
7b	. What data sources did you use to dete	ermine whether your site would impact hi	storic or archeological re	sources?		
	NEPA Documentation					
8.	Flood Zone Designation (Corps Requ	irement)				
88	. Will this project occur in a FEMA-desig	nated 100-year floodplain?	☐Yes	☑ No		
8b	. If yes, explain how project meets FEM/	A requirements: NCDOT Hydraulics cool	rdination with FEMA			
80	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.)				7-(S-10) Date		

ATTACHMENT

PRELIMINARY JURISDICTIONAL DETERMINATION FORM

BACKGROUND INFORMATION

- A. REPORT COMPLETION DATE FOR PRELIMINARY JURISDICTIONAL DETERMINATION (JD):
- B. NAME AND ADDRESS OF PERSON REQUESTING PRELIMINARY JD:

Sara Easterly, NCDOT, 1598 Mail Service Center Raleigh, NC 27699-1598

- C. DISTRICT OFFICE, FILE NAME, AND NUMBER:
- D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION:

B-4660: Replace Bridge No. 19 over the Neuse River Creek on Falls of the Neuse Road (SR 2000) Wake County. Field visit held 10/31/06.

(USE THE ATTACHED TABLE TO DOCUMENT MULTIPLE WATERBODIES AT DIFFERENT SITES)

State:North Carolina County/parish/borough: Wake City: Raleigh Center coordinates of site (lat/long in degree decimal format): Lat. 35.9406° N, Long. -78.5799° W, Universal Transverse Mercator:

Name of nearest waterbody: Neuse River

Identify (estimate) amount of waters in the review area:

Non-wetland waters: 200 linear feet: 40 width (ft) and/or ac res.

Cowardin Class: Riverine Stream Flow: Perennial Wetlands: 0.96 acres.

Cowardin Class: NCWAM Headwater Forest

Name of any water bodies on the site that have been identified as Section 10 waters:

Tidal: Non-Tidal:

E.	REVIEW	PERFORMED	FOR SITE	EVALUATION	ON (CHECK	ALL THAT
APPL	Y):					

Office	(Desk)	Determ	nination.	Date:
Field D	eterm	ination.	Date(s)	:

1. The Corps of Engineers believes that there may be jurisdictional waters of the United States on the subject site, and the permit applicant or other affected party who requested this preliminary JD is hereby advised of his or her option to request and obtain an approved jurisdictional determination (JD) for that site.

Nevertheless, the permit applicant or other person who requested this preliminary JD has declined to exercise the option to obtain an approved JD in this instance and at this time.

2. In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "pre-construction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an approved JD for the activity, the permit applicant is hereby made aware of the following: (1) the permit applicant has elected to seek a permit authorization based on a preliminary JD, which does not make an official determination of jurisdictional waters; (2) that the applicant has the option to request an approved JD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an approved JD could possibly result in less compensatory mitigation being required or different special conditions; (3) that the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) that the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) that undertaking any activity in reliance upon the subject permit authorization without requesting an approved JD constitutes the applicant's acceptance of the use of the preliminary JD, but that either form of JD will be processed as soon as is practicable; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a preliminary JD constitutes agreement that all wetlands and other water bodies on the site affected in any way by that activity are jurisdictional waters of the United States, and precludes any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an approved JD or a preliminary JD, that JD will be processed as soon as is practicable. Further, an approved JD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331, and that in any administrative appeal, jurisdictional issues can be raised (see 33 C.F.R. 331.5(a)(2)). If, during that administrative appeal, it becomes necessary to make an official determination whether CWA jurisdiction exists over a site, or to provide an official delineation of jurisdictional waters on the site, the Corps will provide an approved JD to accomplish that result, as soon as is practicable. This preliminary JD finds that there "may be" waters of the United States on the subject project site, and identifies all aquatic features on the site that could be affected by the proposed activity, based on the following information:

Site number	Latitude	Longitude	Cowardin Class	Estimated amount of aquatic resource in review area	Class of aquatic resource
WA	35.9406°	-78.5799°	Headwater Forest	0.0.3	wetland

STORMWATER MANAGEMENT PLAN

Project: 33822.1.1 TIP: B-4660 County: Wake

Hydraulics Project Engineers: Brian Elam, E.I. (Sungate Design Group); Bill Zerman, P.E. (NCDOT Hydraulics Unit)

ROADWAY DESCRIPTION

The project involves the replacement of Bridge No. 19 on SR 2000 over Neuse River. The overall length of the project with approach work is approximately 1,079 feet. The proposed bridge will consist of 3@ 100', 1@ 80', 1@ 100' PSG (54"). The project drainage consists of the bridge with deck drains on the multi-use path only and drainage systems at the beginning and end of the bridge. There is one proposed standard rip rap ditch and one existing ditch cleanout.

ENVIRONMENTAL DESCRIPTION

The project is located in the Neuse River Basin. Buffer rules are in effect for this river basin. The project will have one (1) crossing of a jurisdictional stream that will impact the Neuse River. This section of The Neuse River is classified as WS-IV and NSW. The Neuse River is not listed on NCDENR-DWQ's 303d list. Wetlands will be impacted by the proposed project.

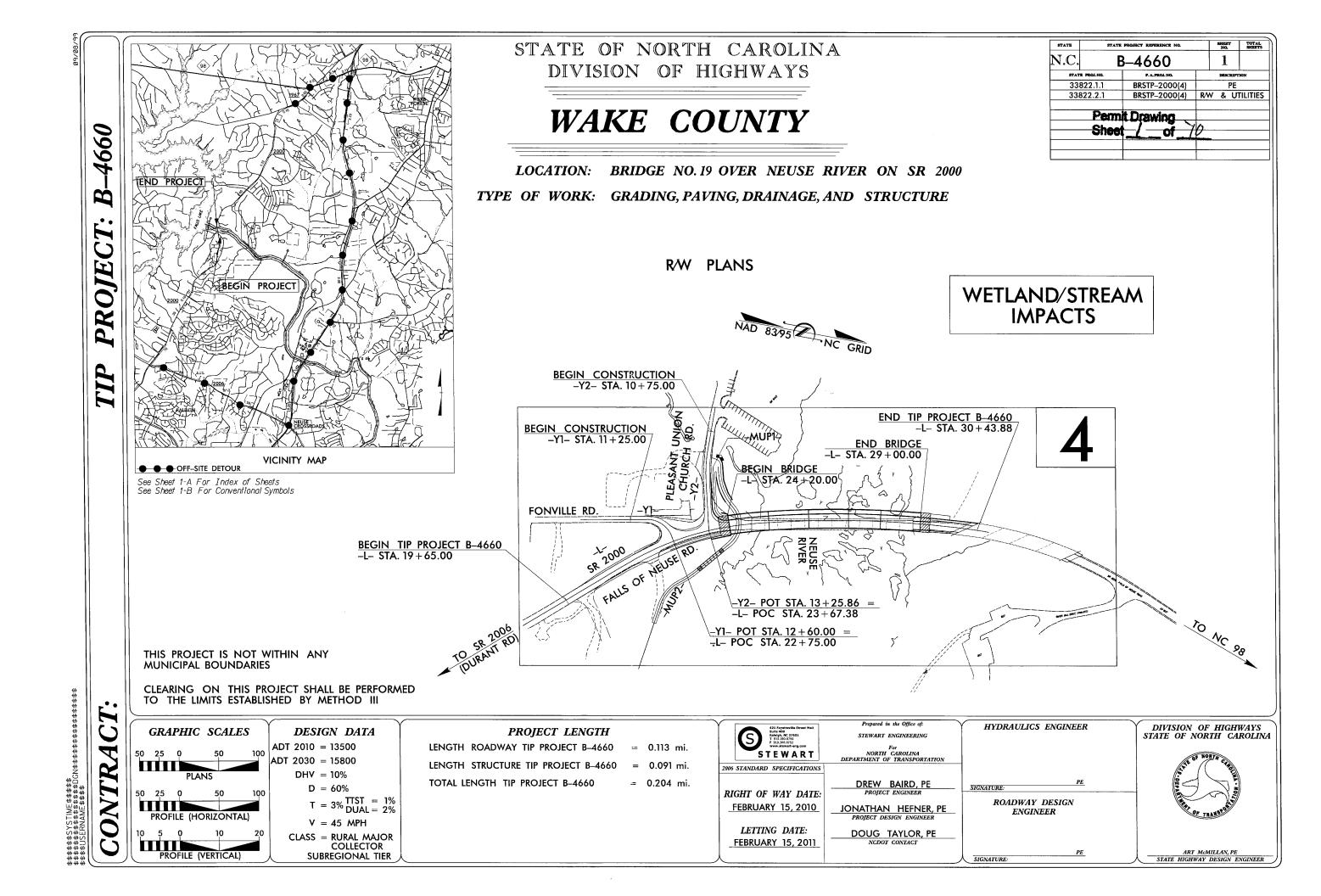
BEST MANAGEMENT PRACTICES AND MAJOR STRUCTURES

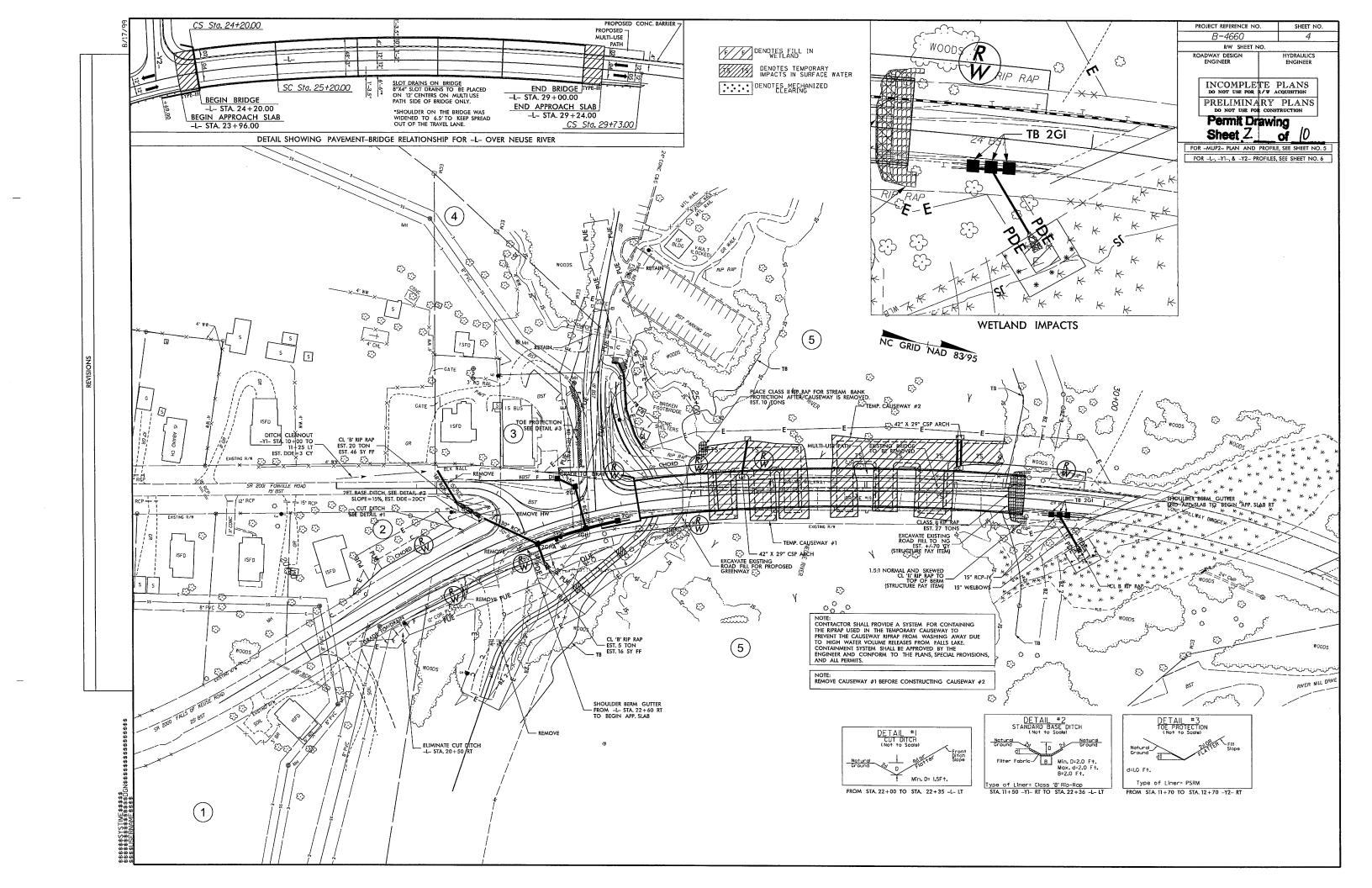
The primary goal of Best Management Practices (BMPs) is to prevent degradation of the states surface waters as a result of the location, construction and operation of the highway system. BMPs are activities, practices and procedures taken to prevent or reduce stormwater pollution. Due to site restrictions no BMPs were used on this project.

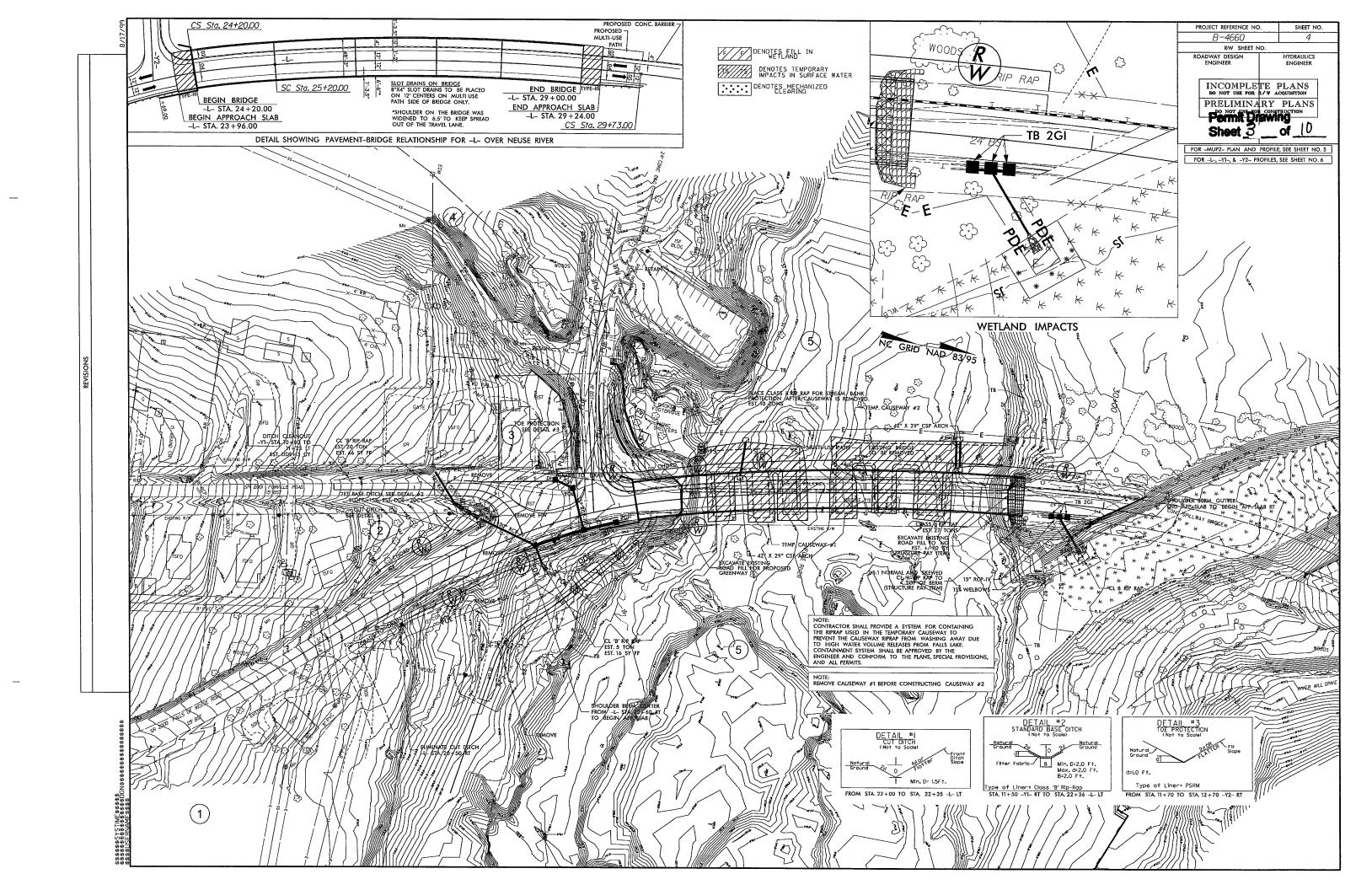
At all the sites, stormwater will be treated and non-erosive velocities will be achieved where practicable.

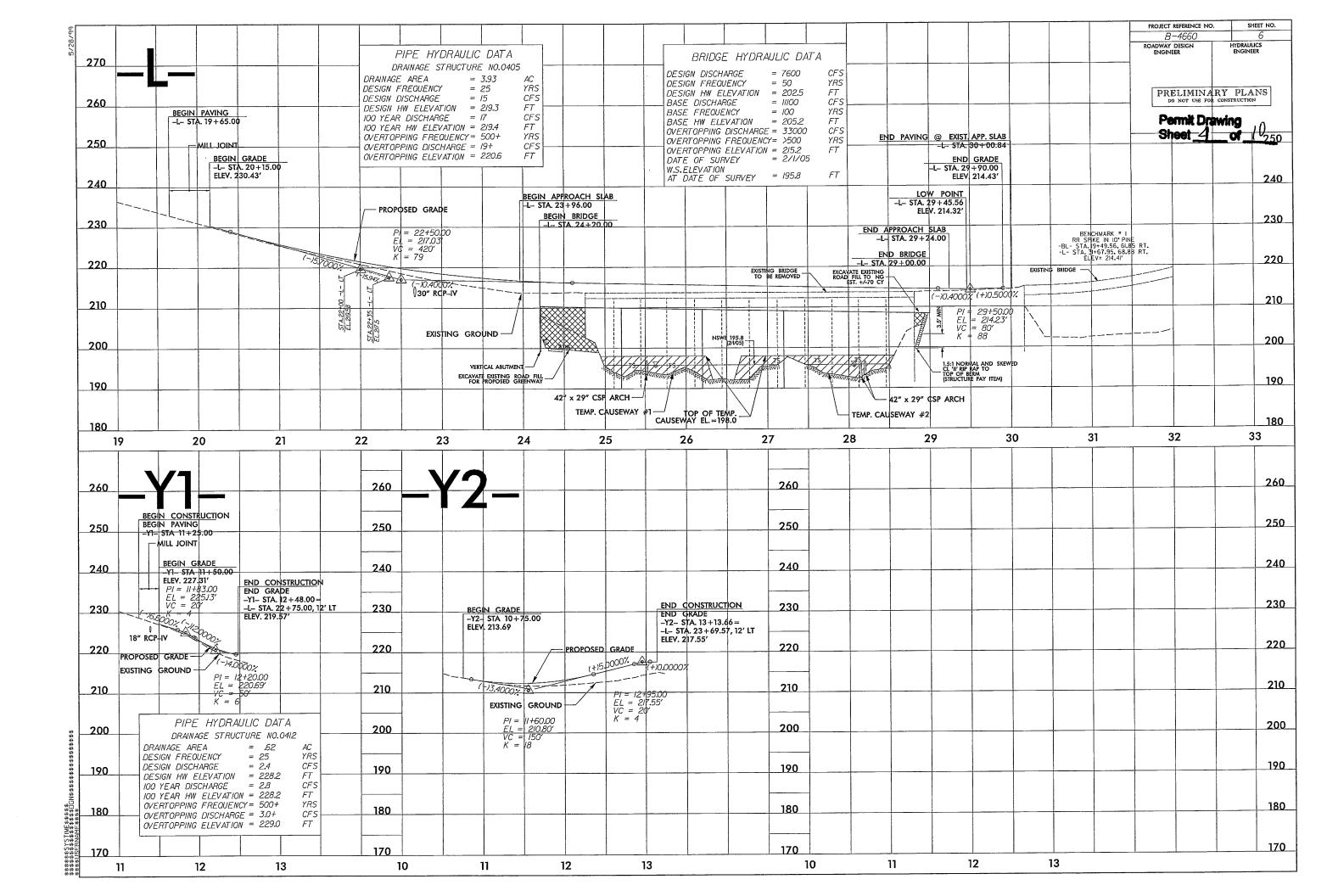
MINIMIZATION OF IMPACTS

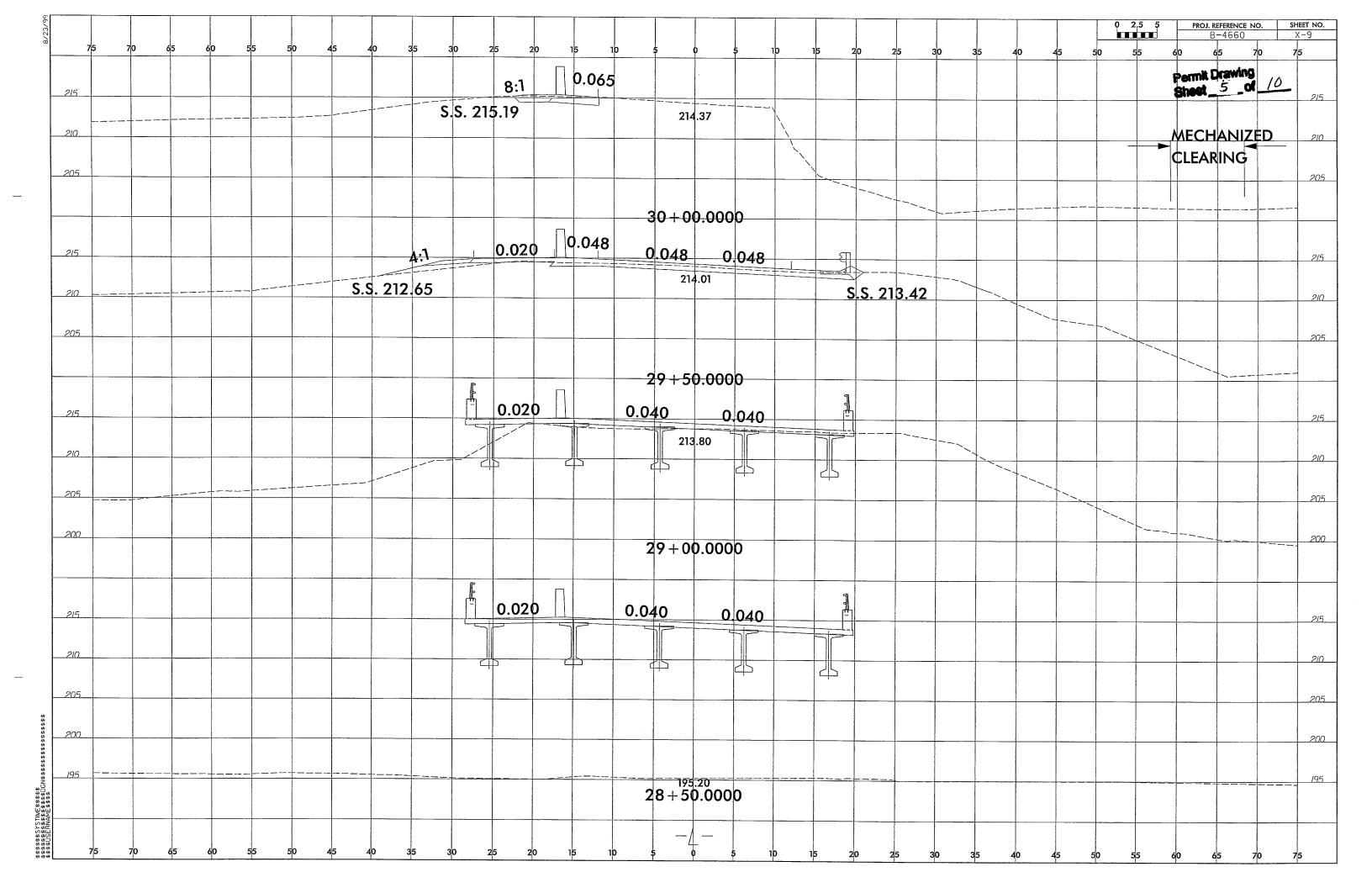
Several design elements provided for minimization of wetland impacts. Bridge end drains are located outside of buffers and wetlands. No deck drains are used on the roadway side of the bridge. Also, a boardwalk spans the natural outlet ditch under -MUP2- rather than use of a pipe culvert.











CONSTRUCTION SEQUENCE

- # CAUSEWAY 1) CONSTRUCT
- OF PROPOSED -L- BRIDGE 2) CONSTRUCT FIRST SECTION
- # 3) REMOVE CAUSEWAY
- 43 4) CONSTRUCT CAUSEWAY
- 5) CONSTRUCT SECOND SECTION OF PROPOSED -L- BRIDGE
- ₹ # 6) REMOVE CAUSEWAY

NOTE:
CONTRACTOR SHALL PROVIDE A SYSTEM FOR CONTAINING
THE RIPRAP USED IN THE TEMPORARY CAUSEWAY TO
PREVENT THE CAUSEWAY RIPRAP FROM WASHING AWAY DUE
TO HIGH WATER VOLUME RELEASES FROM FALLS LAKE.
CONTAINMENT SYSTEM SHALL BE APPROVED BY THE
ENGINEER AND CONFORM TO THE PLANS, SPECIAL PROVISIONS,
AND ALL PERMITS.

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

2000 (FALLS OF NEUSE RD) 3 // 14 // 10 PROJECT: 35822.1.1 (B-4660) BRIDGE NO.19 OVER NEUSE RIVER 9 9 SHEET SIR Z

CAUSEWAY (TYPICALLY IFT CLASS 'A' RIP RAP) # STREAM BED CAUSEWAY DETAIL (NOT TO SCALE) MIN. 20' TOP WIDTH ON BENT ACCESS 25' TOP WIDTH ON MAIN CAUSEWAY ROCK CAUSEWAY (CLASS 'II' RIP RAP) ELEV=198.0 NWS ELEV=195.8 FLOW-TOP

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

PROJECT: 33822.1.1 (B-4660) BRIDGE NO.19 OVER NEUSE RIVER ON SR 2000 (FALLS OF NEUSE RD)

> Estimate 1900 Tons Class 'II' Rip Rap Estimate 350 Tons Class 'A' Rip Rap

VOLUME OF CLASS HRIP RAP= 1300 yds 3 AREA OF CLASS HRIP RAP= 0.25 ac

QUANTITIES OF ESTIMATES

SHEET TOF 10

4/14/10

CAUSEWAY (TYPICALLY 1FT CLASS 'A'RIP RAP) # # STREAM BED CAUSEWAY DETAIL (NOT TO SCALE) MIN. 20' TOP WIDTH ON BENT ACCESS 25' TOP WIDTH ON MAIN CAUSEWAY (CLASS 'II' RIP RAP) TOP ELEV=198.0 NWS ELEV=195.8 FLOW —

N.C. DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS WAKE COUNTY PROJECT: 33822,1.1 (B-4660) BRIDGE NO.19 OVER NEUSE RIVER ON SR 2000 (FALLS OF NEUSE RD)

Estimate 2500 Tons Class 'II' Rip Rap Estimate 490 Tons Class 'A' Rip Rap

VOLUME OF CLASS HRIP RAP= 1800 yds³ AREA OF CLASS IIRIP RAP= 0.32 ac

QUANTITIES OF ESTIMATES

SHEET. 8_{-} OF 10_{-}

4/14/10

PROPERTY OWNERS

NAMES AND ADDRESSES

PARCEL NO. NAMES

ADDRESSES

5

U.S. ARMY CORPS OF ENGINEERS

P.O. BOX 350 MONCURE, NC 27559

WETLAND / STREAM IMPACTS

NCDOT

DIVISION OF HIGHWAYS WAKE COUNTY

PROJECT: 33822.1.1 (B-4660) BRIDGE NO.19 OVER NEUSE RIVER ON SR 2000 (FALLS OF NEUSE RD.) BETWEEN SR 2006 (DURANT RD.)

A:ND NC 98

SHEET 9 OF [0 4/23/10

Permanent Temp. Excavation Mechanized Fill In in Clearing Wetlands (ac) (ac) (ac) 0.01 (ac) (ac) 0.02
(ac) (ac)
_
0.01 0.02

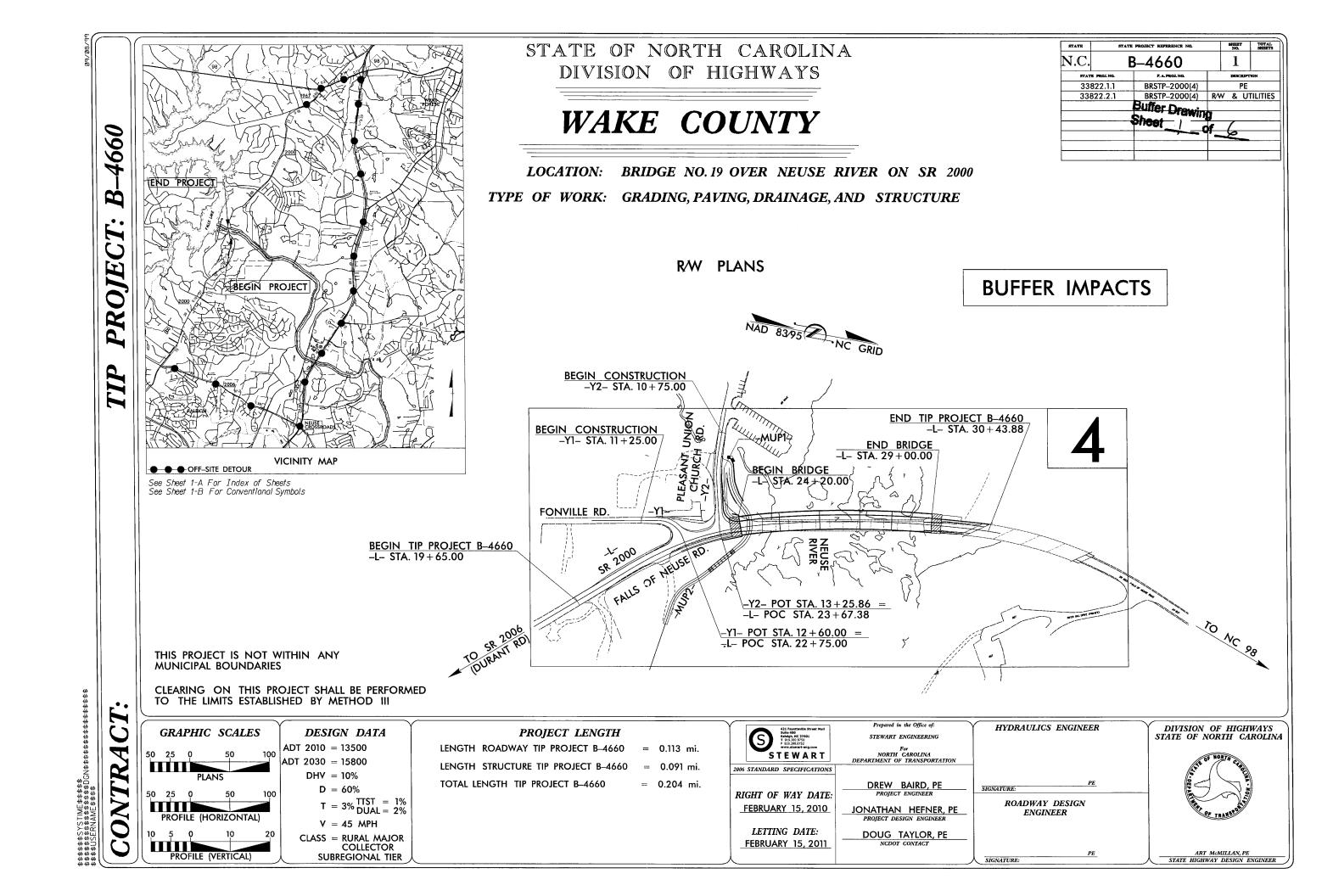
NC DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

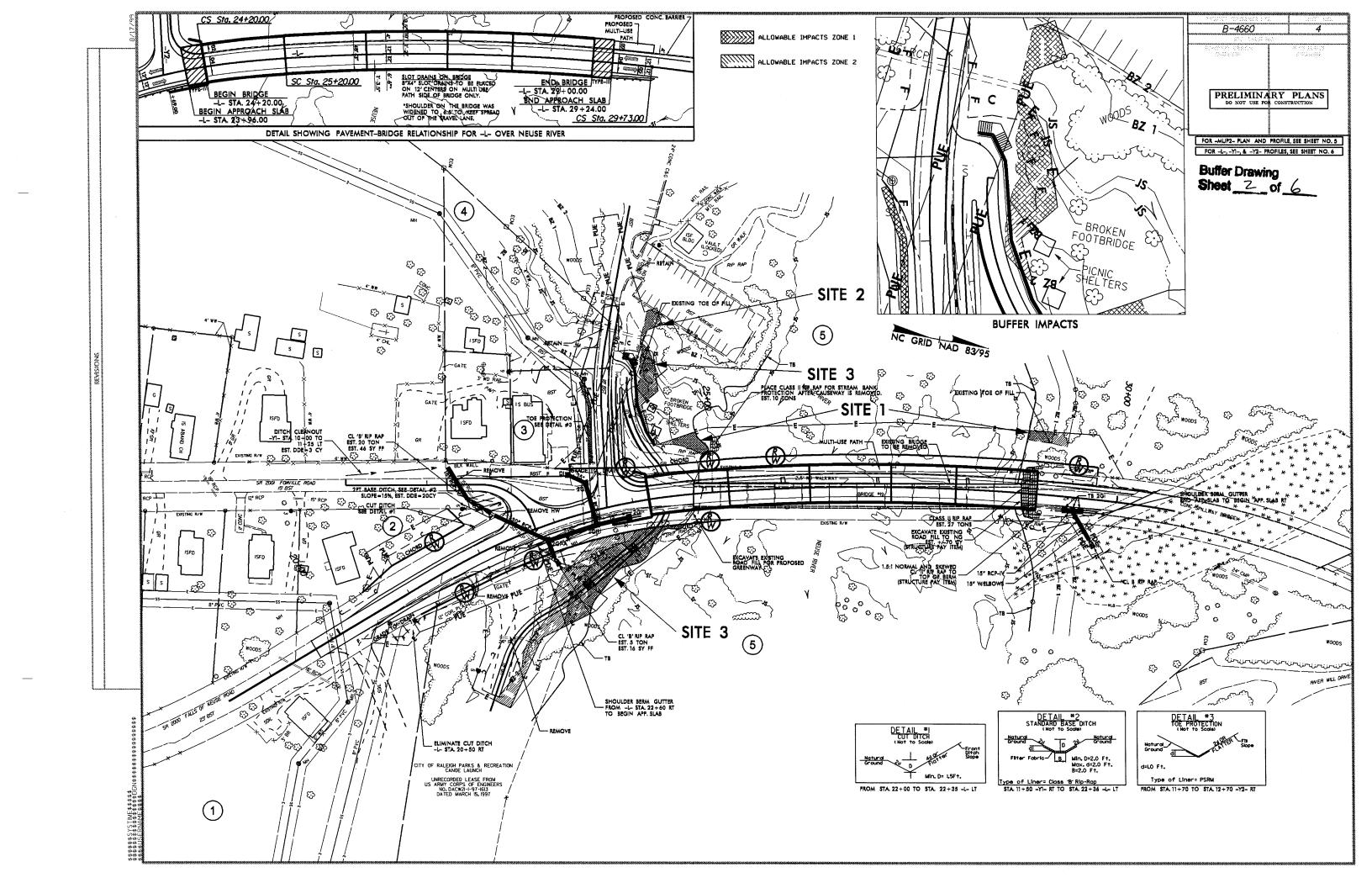
PERMANENT IMPACTS: TOTAL PERMANENT PIER IMPACTS = 155 SF = 0.004 AC

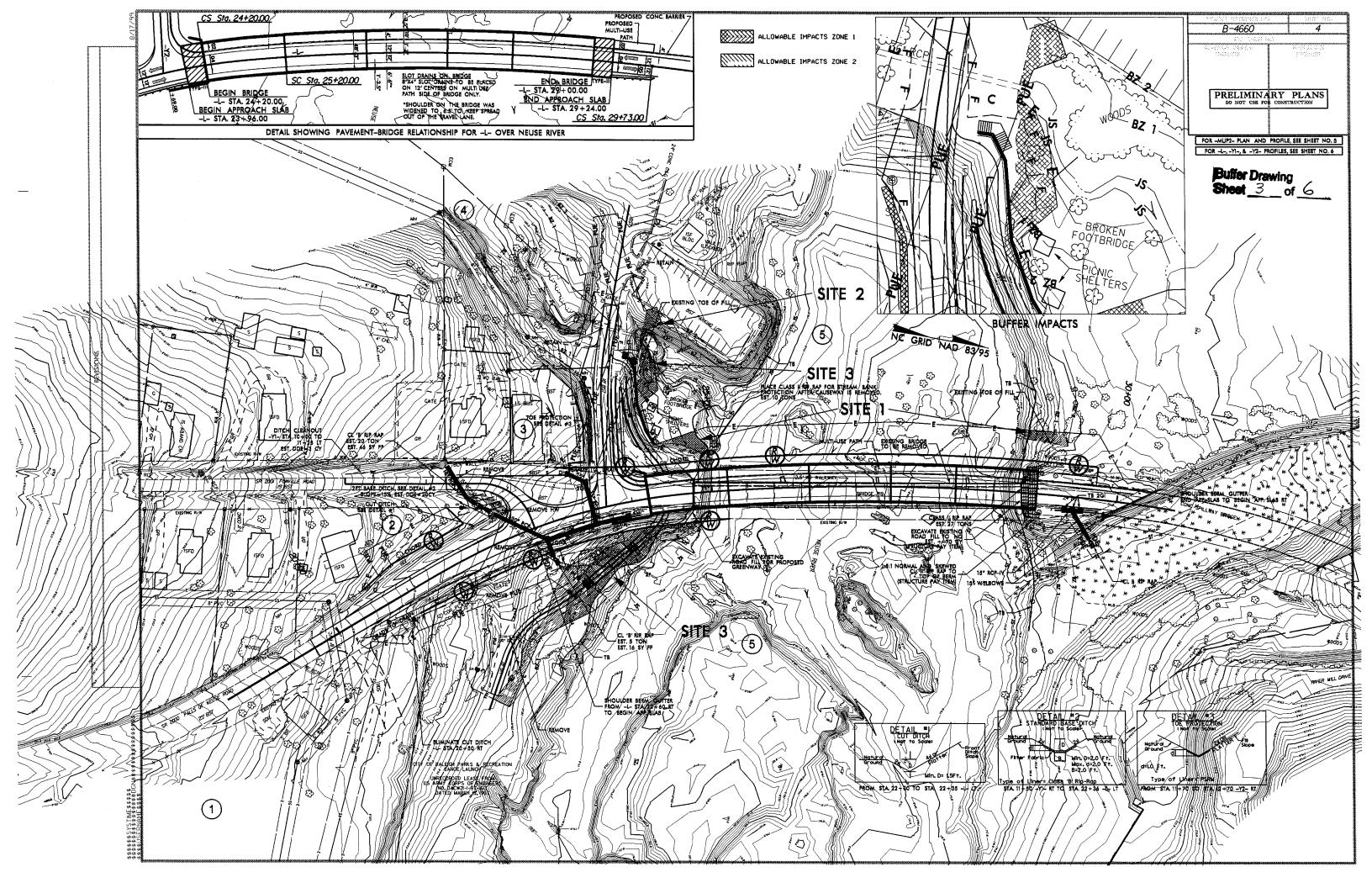
WBS - 33822.1.1 (B-4660)

7/9/2010

ATN Revised 3/31/05







PROPERTY OWNERS

NAMES AND ADDRESSES

PARCEL NO.

NAMES

ADDRESSES

5

U.S. ARMY CORPS OF ENGINEERS P.O. BOX 350 MONCURE, NC 27559

BUFFER IMPACTS

NCDOT

DIVISION OF HIGHWAYS WAKE COUNTY

PROJECT: 33822.1.1 (B-4660)

BRIDGE NO.19 OVER NEUSE RIVER ON SR 2000 (FALLS OF NEUSE RD.) BETWEEN SR 2006 (DURANT RD.)

AND NC 98

SHEET

OF 6

4 // 23 // 10

WETLANDS IN BUFFER IMPACTS SUMMARY															N.C. DEPT, OF TRANSPORTATION	DIVISION OF HIGHWAYS	WAKE COUNTY PROJECT: 33822.1.1 (B-4660)	SHEET 6 OF 6	Rev. Jan 2009
DS IN BI	WETLANDS IN	BUFFERS	ZONE 2 (ff²)	0										0					
VETLAN	WETLA	BUFI	ZONE 1 (ft²)	0										0					
5																			
			STATION (FROM/TO)	24+20 to 29+00 -L-															
			SITE NO.											TOTAL:				!	

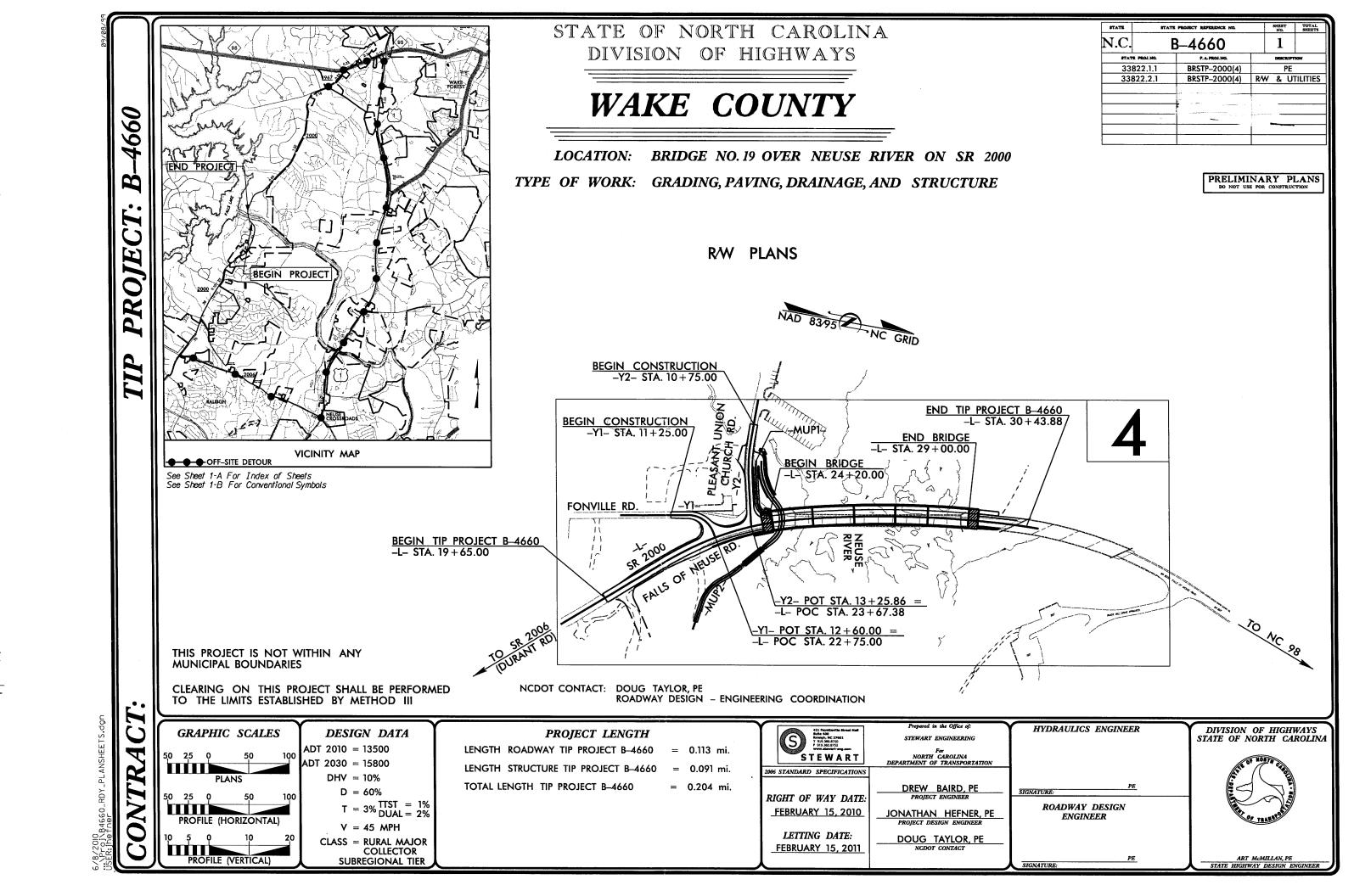
			BUFF	ER IM	BUFFER IMPACTS SUMMARY	SUM	MAR						
							IMPACT					BUF	BUFFER
				TYPE		AL	ALLOWABLE	戶		MITIGABLE	Ē	REPLAC	REPLACEMENT
SITE NO.	STRUCTURE SIZE / TYPE	STATION (FROM/TO)	ROAD CROSSING	BRIDGE	PARALLEL IMPACT	ZONE 1 (ff²)	ZONE 2 (ff²)	TOTAL (ft²)	ZONE 1 (ft²)	ZONE 2 (ff²)	TOTAL (ft²)	ZONE 1 (ft²)	ZONE 2 (ft²)
-	3@100', 1@80', 1@100' BRIDGE	24+20 to 29+00 -L-		×		1019	386	1405					
2	Trib To Neuse River	10+72 to 11+94 Y2	×			420	0	420					
3	Greenway		×			5679	4761	10440					
		i											
												•	
													į
TOTAL:						7118	5147	12265					

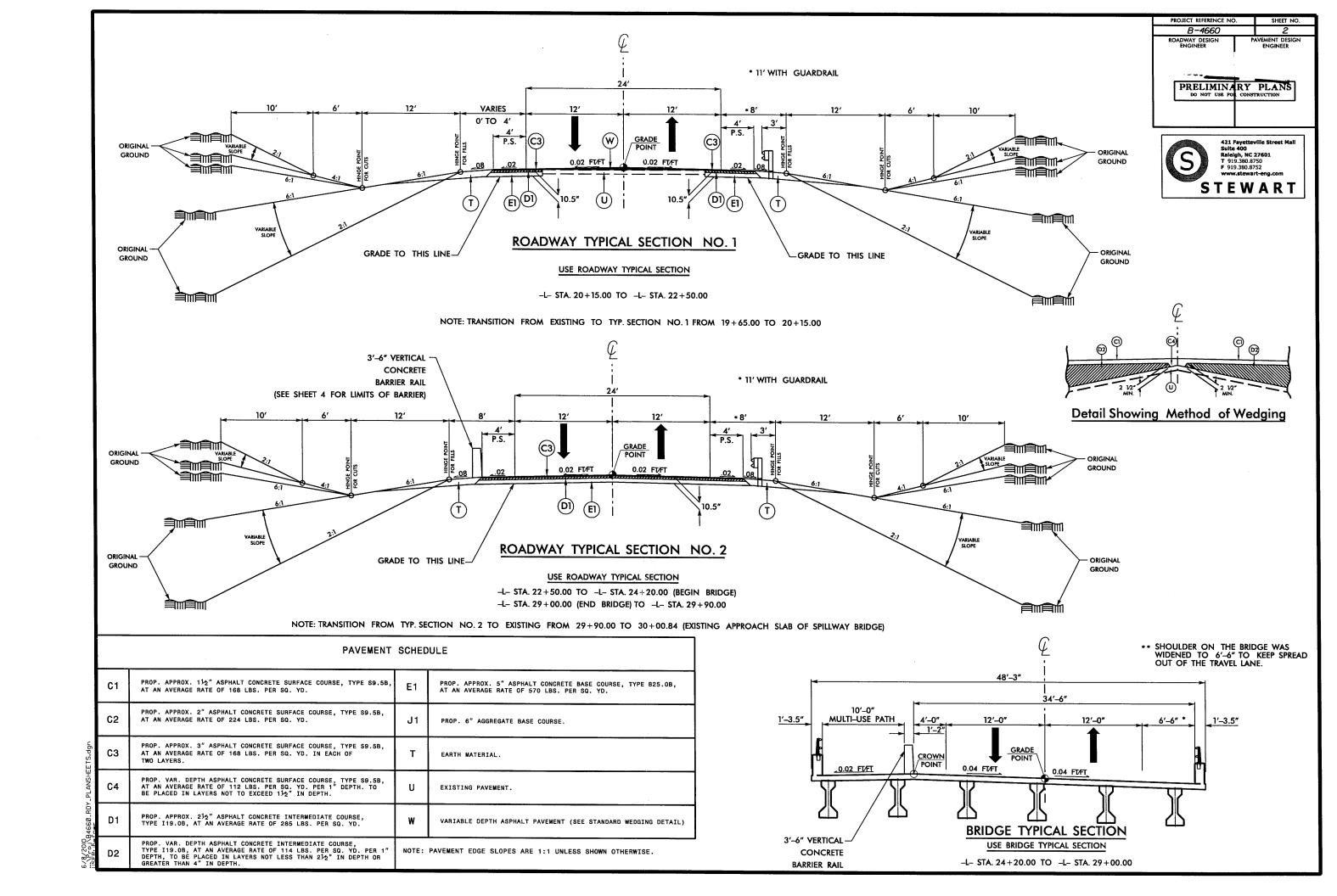
N.C. DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS

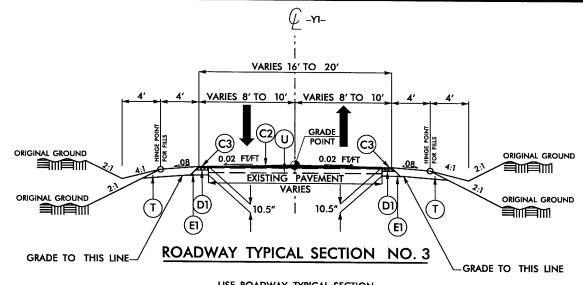
WAKE COUNTY
PROJECT: 33822.1.1 (B-4660)

5/25/2010 SHEET 6 OF 6

Rev. May 2006

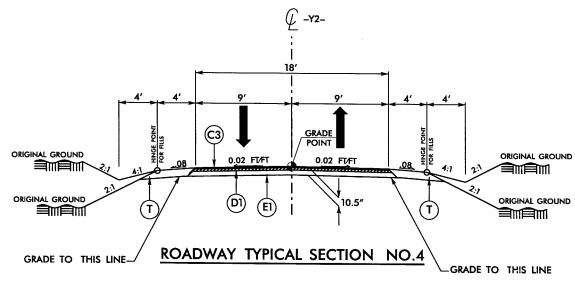






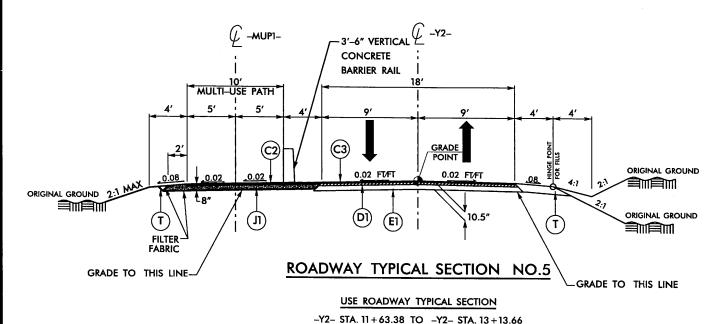
USE ROADWAY TYPICAL SECTION

-Y1- STA. 11+50.00 TO -Y1- STA. 12+48.00 NOTE: TRANSITION FROM EXISTING TO TYP. SECTION NO. 3 FROM 11+25.00 TO 11+50.00



USE ROADWAY TYPICAL SECTION

-Y2- STA. 10+75.00 TO -Y2- STA. 11+63.38



PROJECT REFERENCE NO. SHEET NO.

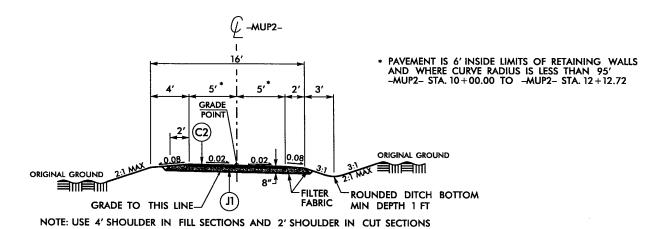
B-4660

ROADWAY DESIGN
ENGINEER

PAYEMENT DESIGN
ENGINEER

PRELIMINARY PLANS
DO NOT USE POL CONSTRUCTION

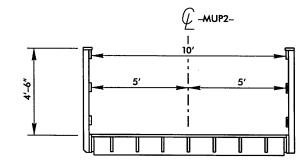




MULTI-USE PATH TYPICAL SECTION

USE MULTI-USE PATH TYPICAL SECTION

-MUP2- STA. 10+00.00 TO -MUP2- STA. 12+45.00 (BEGIN BOARDWALK) -MUP2- STA. 13+05.00 (END BOARDWALK) TO -MUP2- STA. 14+97.52



BOARDWALK TYPICAL SECTION

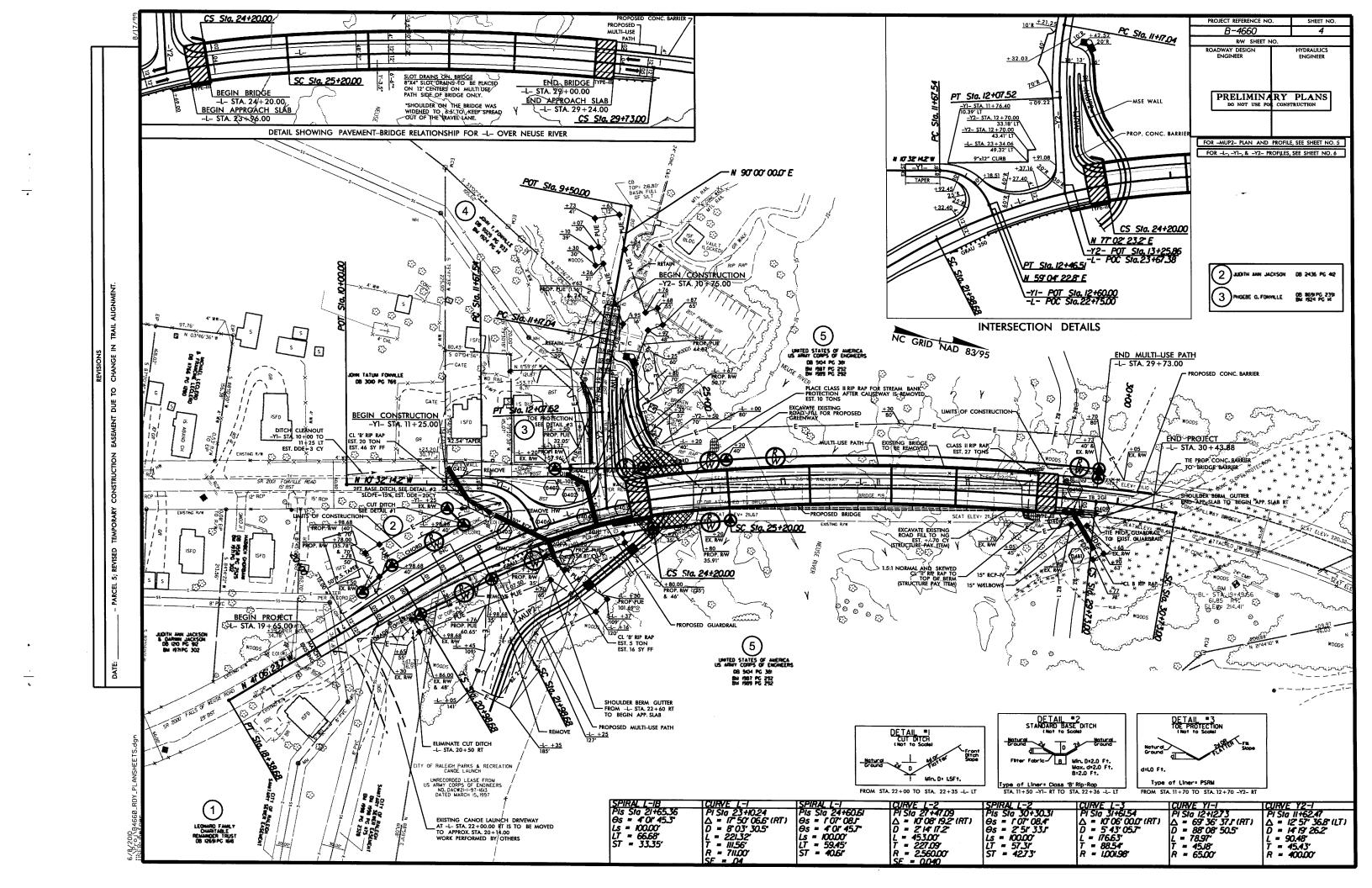
USE BOARDWALK TYPICAL SECTION

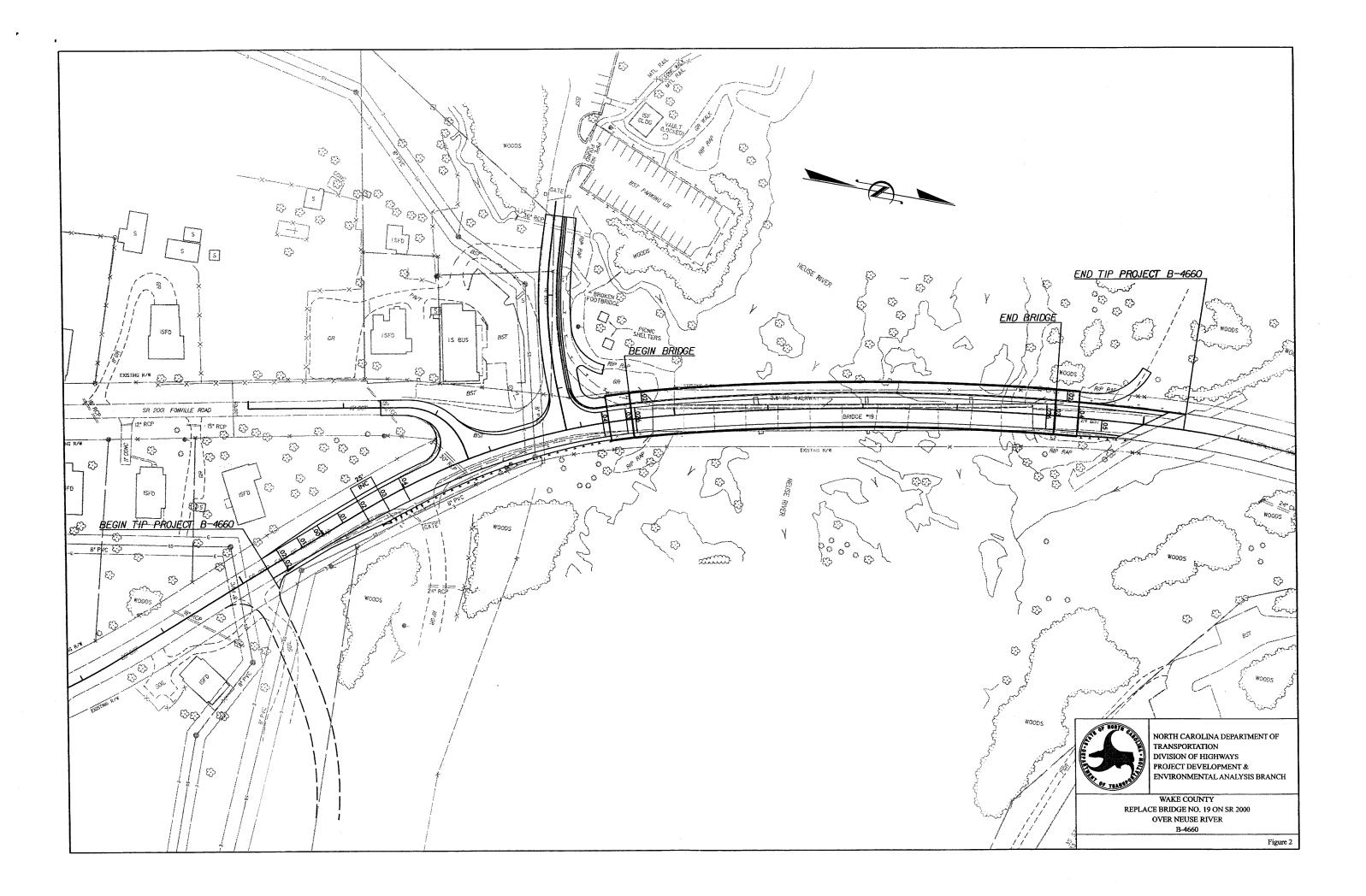
-MUP2- STA. 12+45.00 TO -MUP2- STA. 13+05.00

SEE SHEETS 2B AND 2C FOR BOARDWALK DETAILS

C1	11⁄2″ S9.5B
C2	2" S9.5B
СЗ	3" S9.5B
C4	VAR. S9.5B
D1	2½″ I19.0B
D2	VAR. I19.0B
E1	5" B25.0B
J1	6" ABC
Т	EARTH MATERIAL
U	EXIST. PAVEMENT
w	WEDGING

PAVEMENT SCHEDULE





CONCURRENCE FORM FOR ASSESSMENT OF EFFECTS

Projec	ct Description:	Replace Bridge no. 19 over Neuse River on SR	2000, Wake County
On	Feb. 11, 2008	representatives of	
	Federal Highw	a Department of Transportation (NCDOT) vay Administration (FHWA) a State Historic Preservation Office (HPO)	
Revie	wed the subject	project and agreed	
Ø		effects on the National Register-listed property/prorea of potential effect and listed on the reverse.	operties located within
Ø		effects on the National Register-eligible property/ rea of potential effect and listed on the reverse.	properties located within
		fect on the National Register-listed property/prop of potential effect. The property/properties and t	
		fect on the National Register-eligible property/proof potential effect. The property/properties and	
Signe	ed:		
	Hellon	gullu	2/11/08
Repr	esentative, NCD	¢ t	Date
	I Ild a	Brus	7-11-08
FHW	A, for the Divis	ion Administrator, or other Federal Agency	Date
Repr	esentative, HPO		Date
Res	ne Gled	il-Earles	a-11-08
′ State	Historic Preser	vation Officer /	Date

Properties within the area of potential effect for which there is no effect. Indicate if property is National Register-listed (NR) or determined eligible (DE).

Falls of Neuse Manufacturing Company (NR) Askew-Forvilles House & Outbuildings (DG)

Falls Community Elevated Water Storage Tank #13(DE)

Properties within the area of potential effect for which there is an effect. Indicate property status (NR or DE) and describe the effect.

Reason(s) why the effect is not adverse (if applicable).

Initialed:

NCDOT SIG FHWA DB HPO RYE

CATEGORICAL EXCLUSION ACTION CLASSIFICATION FORM

TIP Project No.	B-4660
State Project No.	8.2409971
W.B.S. No.	33822.1.1
Federal Project No.	BRSTP-2000(04)

A. <u>Project Description:</u>

The purpose of this project is to replace Wake County Bridge No. 19 on SR 2000 (Falls of Neuse Road) over the Neuse River. The existing structure has a total length of 404.1-feet. The replacement structure will be a bridge approximately 450-feet long. The bridge will include two 12-foot lanes, 4-foot shoulders and a 10-foot multi-use bike and pedestrian lane separated from the travel lanes by vertical barrier. Total bridge width will be 48.6-feet with a minimum of 34.8-feet clear deck width for travel lanes and 10-feet for the bike and pedestrian lane. The roadway grade of the new structure will be approximately the same as the existing structure.

The approach roadway will extend approximately 425-feet from the southern end of the bridge and tie directly into the existing spillway bridge No. 602 to the north. The southern approach will include a 24-foot pavement width providing two 12-foot lanes. Eight-foot shoulders with guardrail will be provided. The roadway will be designed as a Rural Major Collector with a 45 mile per hour design speed.

Traffic will be detoured off-site during construction (see Figure 1).

B. Purpose and Need:

NCDOT Bridge Maintenance records indicate Bridge No. 19 has a sufficiency rating of 44.2 out of a possible 100 for a new structure. The bridge is considered functionally obsolete due to deck geometry appraisal of 2 out of 9 according to the Federal Highway Administration (FHWA) standards and therefore eligible for FHWA's Highway Bridge Replacement and Rehabilitation Program.

Bridge No. 19 was originally constructed in 1938 and rehabilitated in 1967. Substructure elements range in age from 70 to 40 years in age. Steel superstructure elements are 40 years old. The typical life expectancy for structures of this type is 50 years. Bridge No. 19 has approached the end of its useful life.

C. Proposed Improvements:

Circle one or more of the following Type II improvements which apply to the project:

- 1. Modernization of a highway by resurfacing, restoration, rehabilitation, reconstruction, adding shoulders, or adding auxiliary lanes (e.g., parking, weaving, turning, climbing).
 - a. Restoring, Resurfacing, Rehabilitating, and Reconstructing pavement (3R and 4R improvements)
 - b. Widening roadway and shoulders without adding through lanes
 - c. Modernizing gore treatments
 - d. Constructing lane improvements (merge, auxiliary, and turn lanes)

- e. Adding shoulder drains
- f. Replacing and rehabilitating culverts, inlets, and drainage pipes, including safety treatments
- g. Providing driveway pipes
- h. Performing minor bridge widening (less than one through lane).
- i. Slide Stabilization
- i. Structural BMP's for water quality improvement
- 2. Highway safety or traffic operations improvement projects including the installation of ramp metering control devices and lighting.
 - a. Installing ramp metering devices
 - b. Installing lights
 - c. Adding or upgrading guardrail
 - d. Installing safety barriers including Jersey type barriers and pier protection
 - e. Installing or replacing impact attenuators
 - f. Upgrading medians including adding or upgrading median barriers
 - g. Improving intersections including relocation and/or realignment
 - h. Making minor roadway realignment
 - i. Channelizing traffic
 - j. Performing clear zone safety improvements including removing hazards and flattening slopes
 - k. Implementing traffic aid systems, signals, and motorist aid
 - 1. Installing bridge safety hardware including bridge rail retrofit.
- 3. Bridge rehabilitation, reconstruction, or replacement or the construction of grade separation to replace existing at-grade railroad crossings
 - a. Rehabilitating, reconstructing, or replacing bridge approach slabs
 - b. Rehabilitating or replacing bridge decks
 - c. Rehabilitating bridges including painting (no red lead paint), scour repair, fender systems, and minor structural improvements
 - d. Replacing a bridge (structure and/or fill).
- 4. Transportation corridor fringe parking facilities.
- 5. Construction of new truck weigh stations or rest areas.
- 6. Approvals for disposal of excess right-of-way or for joint or limited use of right-of-way, where the proposed use does not have significant adverse impacts
- 7. Approvals for changes in access control.
- 8. Construction of new bus storage and maintenance facilities in areas used predominantly for industrial or transportation purposes where such construction is not inconsistent with existing zoning and located on or near a street with adequate capacity to handle anticipated bus and support vehicle traffic.
- 9. Rehabilitation or reconstruction of existing rail and bus buildings and ancillary facilities where only minor amounts of additional land are required and there is not a substantial increase in the number of users.
- 10. Construction of bus transfer facilities (an open area consisting of passenger shelters, boarding areas, kiosks and related street improvements) when located in a commercial area or other high activity center in which there is adequate street capacity for projected bus traffic.
- 11. Construction of rail storage and maintenance facilities in areas used predominantly for industrial or transportation purposes where such construction is not inconsistent with existing zoning and where there is no significant noise impact on the surrounding community.

- 12. Acquisition of land for hardship or protective purposes, advance land acquisition loans under section 3(b) of the UMT Act. Hardship and protective buying will be permitted only for a particular parcel or a limited number of parcels. These types of land acquisition qualify for a CE only where the acquisition will not limit the evaluation of alternatives, including shifts in alignment for planned construction projects, which may be required in the NEPA process. No project development on such land may proceed until the NEPA process has been completed.
- 13. Acquisition and construction of wetland, stream and endangered species mitigation sites.
- 14. Remedial activities involving the removal, treatment or monitoring of soil or groundwater contamination pursuant to state or federal remediation guidelines.

D. Special Project Information:

Estimated Costs:

The estimated costs, based on 2008 prices, are as follows:

Structure	\$3,521,000
Roadway Approaches	\$ 450,000
On-Site Detour	N/A
Structure Removal	\$ 170,000
Misc. & Mob.	\$ 540,000
Eng. & Contingencies	\$ 788,000
Total Construction Cost	\$5,600,000
Right-of-Way Cost	\$ 117,500
Utility Relocation Cost	\$ 132,000
Total Project Costs	\$ 5,849,500

Estimated Traffic:

Current - 13300 vpd Year 2030 - 15800 vpd TTST - 1% Dual - 2%

Accidents: Traffic Engineering has evaluated a recent three year period and found 7 accidents occurring in the vicinity of the project. From the crash analysis, there does not appear to be identifiable crash patterns or obvious safety hazards in the vicinity of the structure.

Design Exceptions: There are no anticipated design exceptions for this project.

Bridge Demolition: Bridge No. 19 is constructed of steel, concrete and stone masonry. Best Management Practices for Bridge Demolition and Removal will be used to avoid dropping debris into the river.

Alternatives Discussion:

No Build – No build would result in eventually closing Falls of Neuse Road (SR 2000), which is unacceptable given the volume of traffic the facility carries.

Rehabilitation – The bridge was constructed in 1938 and rehabilitated in 1967 and has reached the end of its life expectancy. Rehabilitation would require replacing both substructure and superstructure components and would effectively constitute replacing the bridge.

Offsite Detour – Bridge No. 19 will be replaced on the existing alignment. Traffic will be detoured offsite (see Figure 1) during the construction period. NCDOT Guidelines for Evaluation of Offsite Detours for Bridge Replacement Projects considers multiple project variables beginning with the additional time traveled by the average road user resulting from the offsite detour. The offsite detour for this project would include SR 2006 (Durant Road), US 1 (Capital Blvd.) and NC 98 (Durham Road) and add approximately 3. 7 miles additional travel.

Wake County Schools and Wake County Emergency Services has indicated that they can manage the proposed detour. NCDOT Division 5 concurs with the use of the detour.

Other Agency Comments:

The N.C. Wildlife Resource Commission provided standard comments, recommending replacing this bridge with a bridge.

The N.C. Division of Water Quality recommends that the most protective sediment and erosion control BMPs be implemented to reduce the risk of nutrient runoff into the Neuse River. Additionally they request that road design plans provide treatment of the storm water runoff through best management practices as detailed in the most recent version of NC DWO Stormwater Best Management Practices.

Response: Neuse River Buffer Rules apply; therefore, sedimentation and erosion control measures shall adhere to Design Standards in Sensitive Watersheds.

The **Historic Preservation Office (HPO)** reviewed the project Historic Architectural Resources Survey Report, prepared November 2007 and found that the project will have no effects to listed or eligible National Register properties. (See concurrence dated February 11, 2008.)

City of Raleigh is currently designing the Upper Neuse Greenway, which starts at Falls Lake Dam and will connect to Forest Ridge Park to the north of Bridge No. 19 and under Bridge No. 19 traveling south along the Neuse River. The project begins construction in the fall of 2009. The City has requested that a multiuse path be accommodated on the new bridge and to modify the existing bench on the south end of the bridge allow the greenway to be constructed.

Response: NCDOT has developed the typical section for bridge to accommodate a 10-foot multi-use path separated from the travel lanes by a vertical barrier. The City will be required to contribute to the project for cost associated with the multi-use path on the bridge. NCDOT proposes to delay construction of the greenway directly under Bridge No. 19 and will construct that as a part of the new bridge.

Public Involvement:

A Citizen's Informational Workshop was held on August 13, 2007, which was attended by 175 citizens. The majority of the comments concerned the detour route, which was considered to be too long. There was large support for coordinating the project with the City of Raleigh's New Falls of Neuse project and using that project, which includes a bridge over the Neuse River as the detour route.

Response: NCDOT will coordinate with the City of Raleigh concerning the possibility to utilize the New Falls of Neuse Road as the detour for this bridge replacement project.

E. <u>Threshold Criteria</u> The following evaluation of threshold criteria must be completed for Type II actions:

	Ecological	Yes	No
1	Will the project have a substantial impact on any unique or important natural resource?		×
2	Does the project involve habitat where federally listed endangered or threatened species may occur?		×
3	Will the project affect anadromous fish?		×
4	If the project involves wetlands, is the amount of permanent and/or temporary wetland taking less than one-tenth (1/10) of an acre and have all practicable measures to avoid and minimize wetland takings been evaluated?	×	
5	Will the project require the use of U. S. Forest Service lands?		×
6	Will the quality of adjacent water resources be adversely impacted by proposed construction activities?		X
7	Does the project involve waters classified as Outstanding Water Resources (OWR) and/or High Quality Waters (HQW)?		×
8	Will the project require fill in waters of the United States in any of the designated mountain trout counties?		×
9	Does the project involve any known underground storage tanks (UST's) or hazardous materials sites?		×

	Permits and Coordination	Yes	No
10	If the project is located within a CAMA county, will the project significantly affect the coastal zone and/or any "Area of Environmental Concern" (AEC)?		×
11	Does the project involve Coastal Barrier Resources Act resources?		×
12	Will a U. S. Coast Guard permit be required?		×
13	Will the project result in the modification of any existing regulatory floodway?		×
14	Will the project require any stream relocations or channel changes?		×
	Social, Economic and Cultural Resources	Yes	No
15	Will the project induce substantial impacts to planned growth or land use for the area?		×
16	Will the project require the relocation of any family or business?		×
17	Will the project have a disproportionately high and adverse human health and environmental effect on any minority or low-income population?		×
18	If the project involves the acquisition of right of way, is the amount of right of way acquisition considered minor?	×	
19	Will the project involve any changes in access control?		X
20	Will the project substantially alter the usefulness and/or land use of adjacent property?		×
21	Will the project have an adverse effect on permanent local traffic patterns or community cohesiveness?		×
22	Is the project included in an approved thoroughfare plan and/or Transportation Improvement Program (and is, therefore, in conformance with the Clean Air Act of 1990)?	×	
23	Is the project anticipated to cause an increase in traffic volumes?		X

24	Will traffic be maintained during construction using existing roads, staged construction, or on-site detours?	×	
25	If the project is a bridge replacement project, will the bridge be replaced at its existing location (along the existing facility) and will all construction proposed in association with the bridge replacement project be contained on the existing facility?	<u>×</u>	
26	Is there substantial controversy on social, economic, or environmental grounds concerning the project?		×
27	Is the project consistent with all Federal, State and local laws relating to the environmental aspects of the project?	×	
28	Will the project have an "effect" on structures/properties eligible for or listed on the National Register of Historic Places?		×
29	Will the project affect any archaeological remains which are important to history or pre-history?		×
30	Will the project require the use of Section 4(f) resources (public parks, recreation lands, wildlife and waterfowl refuges, historic sites, or historic bridges, as defined in Section 4(f) of the U. S. Department of Transportation Act of 1966)?		×
31	Will the project result in any conversion of assisted public recreation sites or facilities to non-recreation uses, as defined by Section 6(f) of the Land and Water Conservation Act of 1965, as amended?		×
32	Will the project involve construction in, across, or adjacent to a river designated as a component of or proposed for inclusion in the Natural System of Wild and Scenic Rivers?		×
F. <u>/</u>	Additional Documentation Required for Unfavorable Response	onses in	Part E

There are no unfavorable responses in Part E.

G. CE Approval

 TIP Project No.
 B-4660

 State Project No.
 8.2409971

 Federal Project No.
 33822.1.1

Project Description: (Include project scope and location. Attach location map.)

The purpose of this project is to replace Wake County Bridge No. 19 on SR 2000 (Falls of Neuse Road) over the Neuse River. The existing structure has a total length of 404.1-feet. The replacement structure will be a bridge approximately 450-feet long. The bridge will include two 12-foot lanes, 4-foot shoulders and a 10-foot multi-use bike and pedestrian lane separated from the travel lanes by vertical barrier. Total bridge width will be 48.6-feet with a minimum of 36-feet clear deck width for travel lanes and 10-feet for the bike and pedestrian lane. The roadway grade of the new structure will be approximately the same as the existing structure.

The approach roadway will extend approximately 425-feet from the southern end of the bridge and tie directly into the existing spillway bridge No. 602 to the north. The southern approach will include a 24-foot pavement width providing two 12-foot lanes. Eight-foot shoulders with guardrail will be provided. The roadway will be designed as a Rural Major Collector with a 45 mile per hour design speed.

Traffic will be detoured off-site during construction (see Figure 1).

Categorical Exclusion Action Classification:

TYPE II(A) TYPE II(B)		
Approved: */2.8/6 %	Willing Shroom	
Date	Bridge Project Development Engineer	
*	Project Development & Environmental Analysis Branch	
8/28/05	Buya D. Kler	
Date	Project Engineer	
	Project Development & Environmental Analysis Branch	
8/28/08	magken Ser	
Date	Project Planning Engineer	
	Project Development & Enviropmental Analysis Branch	
8/28/2008	LL La	
Date	Iona L. Hauser, AICP	
	Senior Planner, Stewart Engineering, Inc.	
For type II(B) projects only:		
N/A	N/A	
Date	John F. Sullivan, III PE, Division Administrator	

Federal Highway Administration

PROJECT COMMITMENTS:

Wake County
Bridge No. 19 on SR 2000
over Neuse River
Federal Project No. BRSTP-2000(04)
State Project No. 8.2409971
W.B.S. No. 33822.1.1
TIP Project No. B-4660

All Design Groups & Division Construction - Greenway Accommodation

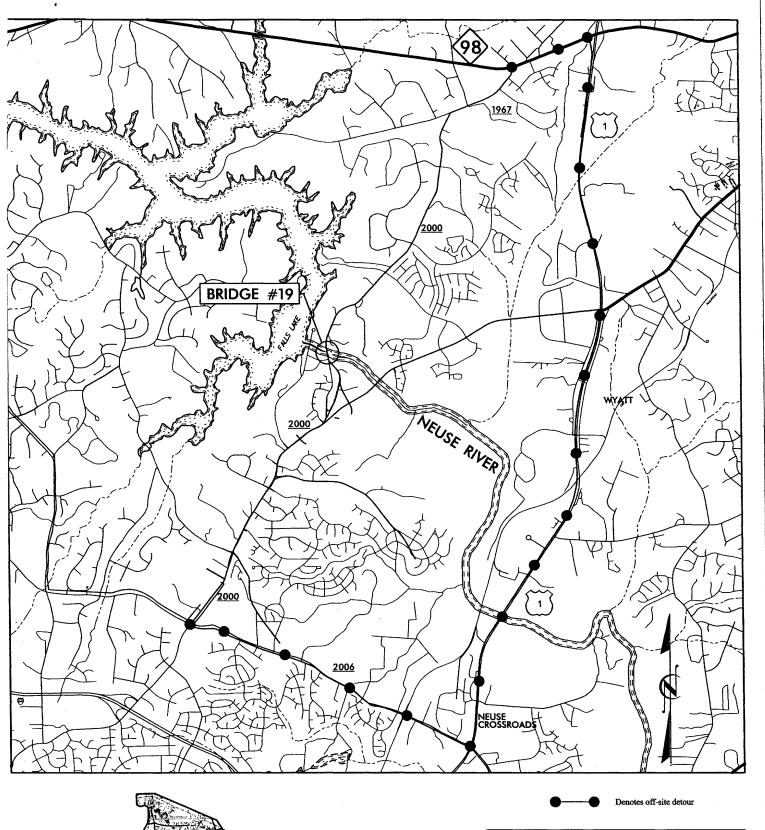
The new bridge will to be designed to include a 10-foot multi-use path separated from the travel lanes by a vertical barrier. The City of Raleigh will be required to contribute to the project for costs associated with the multi-use path on the bridge. NCDOT proposes to delay construction of the greenway under Bridge No. 19 and will construct that as a part of the new bridge.

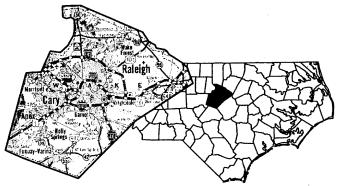
Division 5 Construction, Resident Engineer's Office - Offsite Detour

The Wake County Emergency Services and Public Schools should be notified at least two month prior to road closure.

Roadside Environmental Unit, Division 5 - Water Quality

Sedimentation and erosion control measures shall adhere to Design Standards in Sensitive Watersheds.







NORTH CAROLINA DEPARTMENT OF

TRANSPORTATION
DIVISION OF HIGHWAYS
PROJECT DEVELOPMENT &
ENVIRONMENTAL ANALYSIS BRANCH

WAKE COUNTY
REPLACE BRIDGE NO. 19 ON SR 2000
OVER NEUSE RIVER
B-4660

Figure 1