

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE GOVERNOR

EUGENE A. CONTI, JR. **SECRETARY**

October 11, 2011

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

ATTN: Mr. Monte Matthews

NCDOT Coordinator

Application for Section 404 Nationwide Permit 13, 23, 33 for the proposed Subject:

replacement of Bridge No. 9 over Prather's Creek on US 221 in Alleghany

County, Federal Aid Project No. BRSTP-221(16); Division 11;

TIP No. B-4406; \$240.00 debit WBS 33685.1.1

Dear Sir:

The North Carolina Department of Transportation (NCDOT) proposes to replace Bridge No. 9 over Prather's Creek on US 221. There will be 149 feet of permanent surface water impacts (99 feet of which are due to bank stabilization), 60 feet of temporary surface water impacts and 0.08 acre of permanent impacts to wetlands. Bridge No. 9 will be replaced with a double-span structure 125 feet long.

Please see enclosed copies of the Pre-Construction Notification (PCN), EEP acceptance letter. Stormwater Management Plan, permit drawings, design plans and Rapanos forms. The Categorical Exclusion (CE) was completed in November 2007 and distributed shortly thereafter. A Right of Way Consultation was completed October 2010. Additional copies are available upon request.

Comments from the North Carolina Wildlife Resources Commission (NCWRC) will be required prior to authorization by the Corps of Engineers. By copy of this letter and attachments, NCDOT hereby requests NCWRC review. NCDOT requests that NCWRC forward their comments to the Corps of Engineers and the NCDOT within 30 calendar days of receipt of this application.

> LOCATION: TELEPHONE: 919-707-6100 FAX: 919-212-5785

NC DEPARTMENT OF TRANSPORTATION PROJECT DEVELOPMENT AND ENVIRONMENTAL ANALYSIS 1598 MAIL SERVICE CENTER

RALEIGH NC 27699-1598

MAILING ADDRESS:

WEBSITE: WWW.NCDOT.ORG

This project calls for a letting date of April 17, 2012 and a review date of February 28, 2012; however, the let date may advance as additional funding becomes available.

A copy of this permit application and its distribution list will be posted on the NCDOT Website at: http://www.ncdot.org/doh/preconstruct/pe/neu/permit.html. If you have any questions or need additional information, please contact Jeremy Leamer at (919) 707-6132 or jtleamer@ncdot.gov.

Sincerely,

Gregory J. Thorpe, Ph.D., Manager

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

cc:

NCDOT Permit Application Standard Distribution List





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

	Pre-Construction Notification (PCN) Form					
Α.	Applicant Information					
1.	Processing					
1a.	a. Type(s) of approval sought from the Corps:					
1b.	Specify Nationwide Permit (NWP)	number: 1	3 23 33 or General Permit (GP) n	number:		
1c.	Has the N WP or GP number beer	n verified b	y the Corps?	☐ Yes	⊠ No	
1d.	Type(s) of approval sought from t	he DWQ (check all that apply):			
		า – Regula	r Non-404 Jurisdictiona	al General Permit	t	
	☐ 401 Water Quality Certification	ı – Expres	s Riparian Buffer Autho	orization		
1e.	I.e. Is this notification solely for the record because written approval is not required? For the record only for DWQ 401 Certification:			For the record of	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.	Is the project located within a NC	DCM Area	of Environmental Concern (AEC)?	☐ Yes	⊠ No	
2.	Project Information					
2a.	Name of project:	Replacen	nent of Bridge 9 over Prather's Creek	on NC 221		
2b	. County:	Alleghany	1			
2c.	. Nearest municipality / town:	Sparta				
2d	. Subdivision name:	not applic	cable			
2e	. NCDOT only, T.I.P. or state project no:	B-4406		<u></u>		
3.	Owner Information					
3a	. Name(s) on Recorded Deed:	North Ca	rolina Department of Transportation			
	. Deed Book and Page No.	not applie	cable 			
ļ	3c. Responsible Party (for LLC i f applicable): not applicable					
3d	. Street address:	1598 Ma	il Service Center			
3e	. City, state, zip:	Raleigh,	NC 27699-1598			
3f.	Telephone no.:	(919) 707	7-6132			
3g	ı. Fax no.:	(919) 212	2-5785			
3h	3h. Email address: jtleamer@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.	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: 36.52298 (DD.DDDDDD		Longitude: - 81.18450 (-DD.DDDDDD)
1c.	Property size:	1.4 acres		-
2.	Surface Waters			
2a.	Name of nearest body of water (stream, river, etc.) to proposed project:	Prather's Creek		
2b.	Water Quality Classification of nearest receiving water:	B;Tr		
2c.	River basin:	New		
3.	Project Description			
3a.	Describe the existing conditions on the site and the general lan application:	d use in the vicinity	y of the proje	ct at the time of this
	Rural residential and agricultural land			
3b.	List the total estimated acreage of all existing wetlands on the	property:		
	0.10		Man Miles (1911)	
3с.	List the total estimated linear feet of all existing streams (interm 150	ittent and perennia	al) on the pro	perty:
3d	Explain the purpose of the proposed project:			
	To replace a structurally deficient and functionally obsolete brid			
3e	 Describe the overall project in detail, including the type of equi The project involves replacing a 37-foot bridge with a 125-foot, utilizing the existing bridge. Standard road building equipment, 	2-span bridge on i	new alignme	nt while maintaining traffic
4.	Jurisdictional Determinations			
	. 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?	⊠ Yes □	∃ No	☐ Unknown
	Comments: Request was sent by EcoScience on behalf of NCDOT to John Thomas August 2005. NCDOT received nothing back. NCDOT requests a FINAL JD with this permit.			
4b	If the Corps made the jurisdictional determination, what type of determination was made?	☐ Preliminary ☐] Final	
40	. If yes, who delineated the jurisdictional areas? Name (if known):	Agency/Consulta Other:	ant Company	:
40	I. If yes, list the dates of the Corps jurisdictional determinations	or State determinat	tions and atta	ach documentation.
5.	Project History			
58	a. Have permits or certifications been requested or obtained for this project (including all prior phases) in the past?	☐ Yes	☑ No	Unknown
5k	If yes, explain in detail according to "help file" instructions.			
6.	Future Project Plans			
68	a. Is this a phased project?	☐ Yes	⊠ No	
6k	p. If yes, explain.			
L				

C. Proposed Impa	icts Inventory						
1. Impacts Summa	ary		A 1 4 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
1a. Which sections v	vere completed be	elow for your project (check all that a	pply):			
Wetlands	⊠s	treams - tributaries	☐ Buf	ffers			
☐ Open Waters	☐ P	ond Construction					
2. Wetland Impact		on the site then com	plete this quest	ion for each wetland a	rea impacted	I.	
2a.	2b.	2c.	2d.	2e.		2f.	
Wetland impact number – Permanent (P) or Temporary (T)	Type of impact	Type of wetland (if known)	Forested	Type of jurisdi (Corps - 404, DWQ – non-404	, 10	Area of impact (acres)	
Site 1 ⊠ P □ T	Roadway fill	Riverine	☐ Yes ☑ No	⊠ Corps □ DWQ		0.05	
Site 1 ⊠ P □ T	Excavation in wetlands	Riverine	☐ Yes ⊠ No	⊠ Corps □ DWQ		0.01	
Site 1 ⊠ P □ T	Mechanized clearing in wetlands	Riverine	☐ Yes ☑ No	⊠ Corps □ DWQ		0.02	
				2g. Total wetlar	nd impacts	0.08 Permanent 0.00 Temporary	
2h. Comments:							
3. Stream Impact If there are perennia question for all stream	l or intermittent st		ng temporary ir	mpacts) proposed on t	·		
3a.	3b.	3c.	3d.	3e.	3f.	3g. Impact length	
Stream impact number - Permanent (P) or Temporary (T)	Type of impact	Stream name	Perennial (PER) or intermittent (INT)?	Type of jurisdiction (Corps - 404, 10 DWQ – non-404, other)	Average stream width (feet)	(linear feet)	
Site 1 ⊠ P □ T	*Roadway fill	UT to Prather's Creek	☐ PER ⊠ INT	⊠ Corps □ DWQ	2	50	
Site 2 ⊠ P □ T	Streambank stabilization	Prather's Creek	⊠ PER □ INT	☑ Corps ☐ DWQ	12	63	
Site 3 ☐ P ⊠ T	Proposed bridge wing wall	Prather's Creek	⊠ PER □ INT	⊠ Corps □ DWQ	12	30	
Site 4 ⊠ P □ T	Streambank stabilization	Prather's Creek	☑ PER □ INT	⊠ Corps □ DWQ	12	18	
Site 5 ☐ P ⊠ T	**Existing bridge removal wing wall	Prather's Creek	⊠ PER □ INT	⊠ Corps □ DWQ	12	30	
Site 6 ⊠ P □ T	Streambank stabilization	Prather's Creek	☑ PER ☐ INT	⊠ Corps □ DWQ	12	18 149 Perm	
3h. Total stream and tributary impacts							
3i. Comments: *UT is jurisdictional as shown in site 1 blow-up **wing walls are temporary structures to keep debris from falling into water							

4. Open	Water In	npacts								
	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.	,	4b.	4c.				4d.		4e.	
Open w impact nur		Name of waterbody		Type	of impact		Waterbody	/ tvpe	Area of im	pact (acres)
Permanen	t (P) or	(if applicable)		- 7				, 9,5-		
Temporary (T) O1 P T					· · · · · · · · · · · · · · · · · · ·					
	<u>□'</u>									
U4 L P	O4 PT X Permanent									
						4f. Total o	pen water ir	npacts		nporary
4g. Comm	ents:					-				
5. Pond	or Lake	Construction								
If pond or		struction proposed,		plete	the chart b	elow.				
5a.	5b.		5c.				5d.		A. (f4)	5e.
Pond ID	Pro	oposed use or	vve	uand	Impacts (a	cres)				Upland (acres)
number	pu	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?				ΠY	es	□No	If yes, peri	mit ID no	:	
5i. Expected pond surface area (acres):										
5j. Size	of pond v	vatershed (acres):								
5k. Metho	od of cor	struction:								

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	☐ Tar-Pamlico	☐ Other:			
Project is in which	protected basin?		☐ Catawba	Randleman				
6b.	6c.	6d.	6e.	6f.	6g.			
Buffer impact number –	Reason for impact		Buffer	Zone 1 impact	Zone 2 impact			
Permanent (P) or Temporary (T)		Stream name	mitigation required?	(square feet)	(square feet)			
B1 P T			Yes		A			
			∐ No					
B2 □ P □ T			Yes					
			∐ No					
ВЗ□Р□Т			Yes					
	□ No							
	6h. Total buffer impacts							
6i. Comments:	6i. Comments:							

D.	Impact Justification and Mitigation					
1.	Avoidance and Minimization					
1a.	a. Specifically describe measures taken to avoid or minimize the proposed impacts in designing project.					
	The proposed bridge is a spanning structure. 2:1 fill slopes	will be utilized where p	racticable.			
1b.	Specifically describe measures taken to avoid or minimize t	he proposed impacts t	hrough construction techniques.			
	Surficial bridge runoff will not be directed into Prather's Creek via deck drains. Temporary impacts at the bridge are wing walls to prevent debris from falling into water during bridge removal. There will be no interior bents in the water. Policies outlined in Best Management Practices (BMP's) for protection of surface waters and a strict erosion control schedule will be followed. A moratorium prohibiting in-stream work is in place from October 15 to April 15 to protect trout spawning. Design Standards in Sensitive Watersheds will be adhered to.					
2.	. Compensatory Mitigation for Impacts to Waters of the U.S. or Waters of the State					
2a.	Does the project require Compensatory Mitigation for impacts to Waters of the U.S. or Waters of the State?	⊠ Yes □ No If no, explain:				
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					
3a	. 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:	50 linear feet (50 lin	ear feet of impact)			
40	. If using stream mitigation, stream temperature:	☐ warm ☐ co	ool ⊠cold			
40	. Buffer mitigation requested (DWQ only):	square feet				
4e	. Riparian wetland mitigation requested:	0.08 acres (0.08 ac	res of impact)			
4f	4f. Non-riparian wetland mitigation requested: acres					
49	4g. Coastal (tidal) wetland mitigation requested: acres					
4h	. Comments:					
5.	Complete if Using a Permittee Responsible Mitigation	Plan				
5a	5a. If using a permittee responsible mitigation plan, provide a description of the proposed mitigation plan.					

6. Buffer N	Buffer Mitigation (State Regulated Riparian Buffer Rules) – required by DWQ						
•	a. Will the project result in an impact within a protected riparian buffer that requires ☐ Yes ☒ No buffer mitigation?						
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. Comme	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 not, explain why. Comments:	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?		ocal Government nwater Program Jnit			
3.	Certified Local Government Stormwater Review	<u> </u>				
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 Sup ☐ Other:	ply Watershed			
3с	. Has the approved Stormwater Management Plan with proof of approval been attached?	☐ Yes	□ No			
4.	DWQ Stormwater Program Review	T				
48	a. Which of the following state-implemented stormwater management programs apply (check all that apply):	Coastal co	ounties .aw 2006-246			
4k	b. Has the approved Stormwater Management Plan with proof of approval been attached?	☐ Yes	□No			
5.	DWQ 401 Unit Stormwater Review					
5a	Does the Stormwater Management Plan meet the appropriate requirements?	☐ Yes	□ No N/A			
51	b. Have all of the 401 Unit submittal requirements been met?	☐ Yes	□ No N/A			

F.	Supplementary Information				
1.	Environmental Documentation (DWQ Requirement)				
1a.	Does the project involve an expenditure of public (federal/state/local) funds or the use of public (federal/state) land?	⊠ 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.) Comments:	⊠ Yes	□No		
2.	Violations (DWQ Requirement)				
	. 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	 If you answered "yes" to the above, submit a qualitative or quantitative cumulative im most recent DWQ policy. If you answered "no," provide a short narrative description. 	pact analysis in a	ccordance with the		
	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. not applicable 	arge) of wastewa	ter generated from		

5.	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 coi impacts?	ncerning Endangered Species Act	Yes	⊠ No			
5c.	If yes, ind icate the USFWS Field Office	you have contacted.	☐ Raleigh ☐ Asheville				
5d.	What data sources did you use to deter Habitat?	rmine whether your site would impact Er	ndangered Species or D	esignated Critical			
	Endangered and Threatened species that require surveys are not listed for Alleghany County.						
6.	. Essential Fish Habitat (Corps Requirement)						
6a.	6a. Will this project occur in or near an area designated as essential fish habitat?						
6b.	What data sources did you use to dete	rmine whether your site would impact E	ssential 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	esources?			
	NEPA Documentation						
8.	Flood Zone Designation (Corps Requi	irement)					
8a	. Will this project occur in a FEMA-design	nated 100-year floodplain?	☐ Yes	⊠ No			
8b	. If yes, explain how project meets FEMA	A requirements: NCDOT Hydraulics Unit	coordination with FEM/	4			
8c	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.)						



September 20, 2011

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

Dear Dr. Thorpe:

Subject: EEP Mitigation Acceptance Letter:

B-4406, Replace Bridge Number 9 over Prathers Creek on US 221, Alleghany County

The purpose of this letter is to notify you that the Ecosystem Enhancement Program (EEP) will provide the compensatory stream and riparian wetland mitigation for the subject project. Based on the information supplied by you on August 15 and September 16, 2011, the impacts are located in CU 05050001 of the New River Basin in the Northern Mountains (NM) Eco-Region, and are as follows:

New		Stream			Wetlands		Buffer ((Sq. Ft.)
05050001 NM	Cold	Cool	Warm	Riparian	Non- Riparian	Zone 1 Zone 2		
Impacts (feet/acres)	50	0	0	0.08	0	0	0	0

This mitigation acceptance letter replaces the mitigation acceptance letter issued on August 16, 2011. EEP commits to implementing sufficient compensatory stream and riparian wetland mitigation credits to offset the impacts associated with this project in accordance with the N.C. Department of Environment and Natural Resources' Ecosystem Enhancement Program In-Lieu Fee Instrument dated July 28, 2010. If the above referenced impact amounts are revised, then this mitigation acceptance letter will no longer be valid and a new mitigation acceptance letter will be required from EEP.

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

Sincerely,

Michael Ellison EEP Deputy Director

cc: Mr. Monte Matthews, USACE - Raleigh Regulatory Field Office

Mr. Brian Wrenn, Division of Water Quality, Wetlands/401 Unit

File: B-4406 Revised



emab Stamply of



	F.	
	E	
	3	
	2.4	
	33	
	ĘΩ	
	Ť	
~ ***	hui .	}

North Carolina Department of Transportation

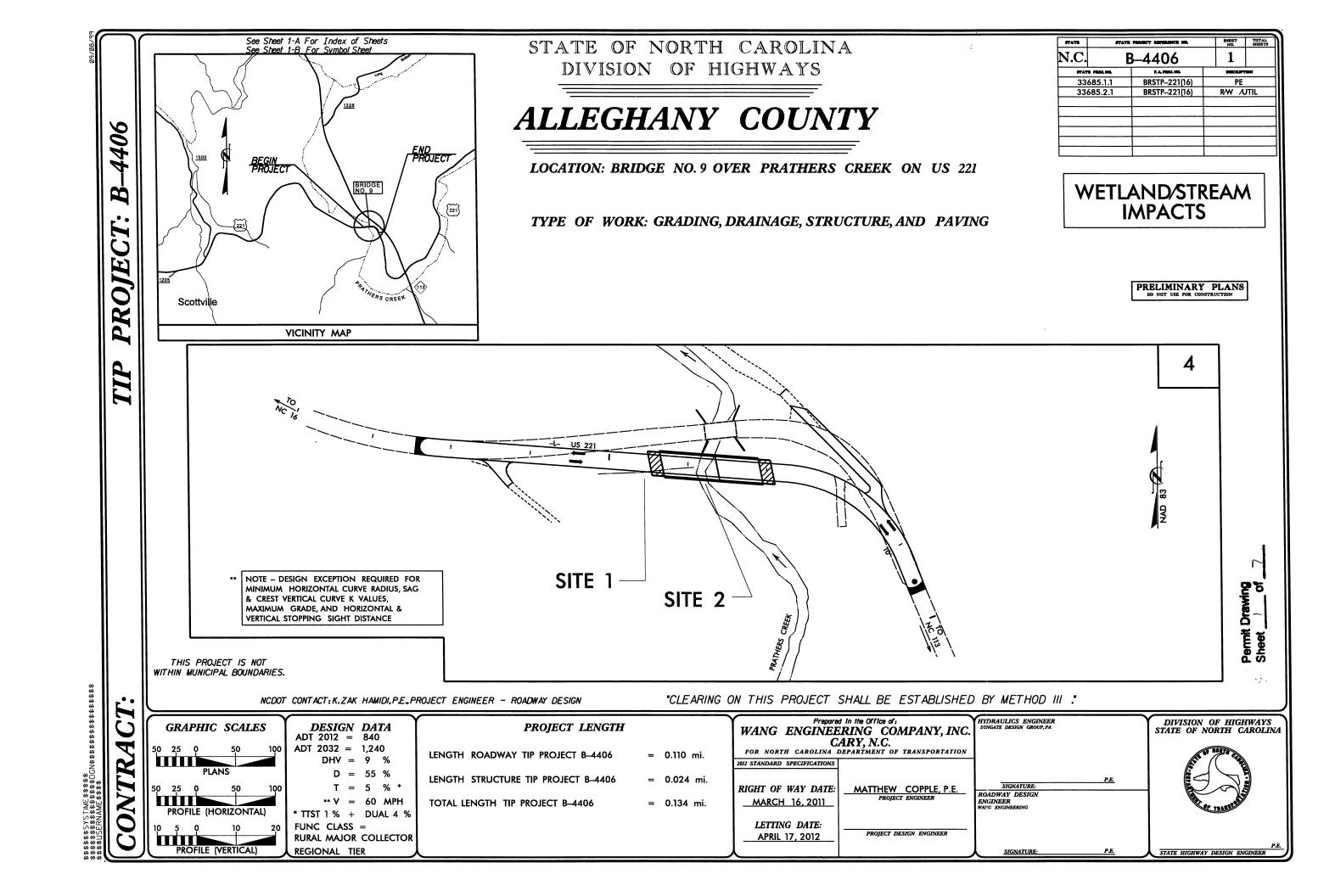
Stormwater		Highway Stormwater Program		X S S S S S S S S S S S S S S S S S S S	S
Released July 2010 (CRAFT)		STORMWATER MANAGEMENT PLAN	GEMENT PLAN		*
					5
		General Project Information	formation		
Project No.:	84406		Date:	7/14/2011	
City/Town:			Designer:	Wang Engineering	
County(ies):	Alleghany County		Project Manager:	Tommy Register	
River Basin(s):			CAMA County?	no TVA County?	yes
Primary Receiving Water:		Prathers Creek	NCDWQ Stream Index:		
NCDWQ Surface Water Classification for Primary Receiving Water	Receiving Water	Primary:	"8" Trout Waters		
		Supplemental:			
Other Stream Classification:					
303(d) Stream?	OU.	Type(s) of Impairment:			
State Stormwater Permit Required?	2	If yes, why?			
Could the Project Impact Threatened or Endangered Species?	red Species?		2		
Description					
Anadromous Fish Present?					
Description:			* # ** #		
Buffer Rules in Effect?			Buffer Killes:		
		Existing Site	ıte		
Description of Existing Project Area:	The existing project area	consist of an existing short t	pridge with two lanes crossing with	The existing project area consist of an existing short bridge with two lanes crossing with vertical abutments on a curvey road	
Average Daily Traffic (existing):	840 ADT 2012		**************************************		
Existing Cross Section:	2 lane shoulder section on	## ## ## ## ## ## ## ## ## ## ## ## ##			
Surrounding Land Use:	rural, some woods, most		some residentual housing		
General Comments:					
		Project Description	ption		
	The proposed project area	sa consist of a new longer bri	dge with stoping spill thru abutmer	consist of a new longer bridge with sloping spill thru abutments with an improved roadway alighnment immediately	nediately
Average Daily Trainic (proposed):	2**				
TODOS SON DESCRIPTION OF THE PROPERTY OF THE P	2 Idne silouudei seciloii oli IIII				
musicianye mounication:	2				
Terminas					
Project Length (lin, miles/feet):	0.134 miles/700 feet		Added Impervious Area (ac.):		
General Comments:					



North Carolina Department of Transportation

Version 1.1

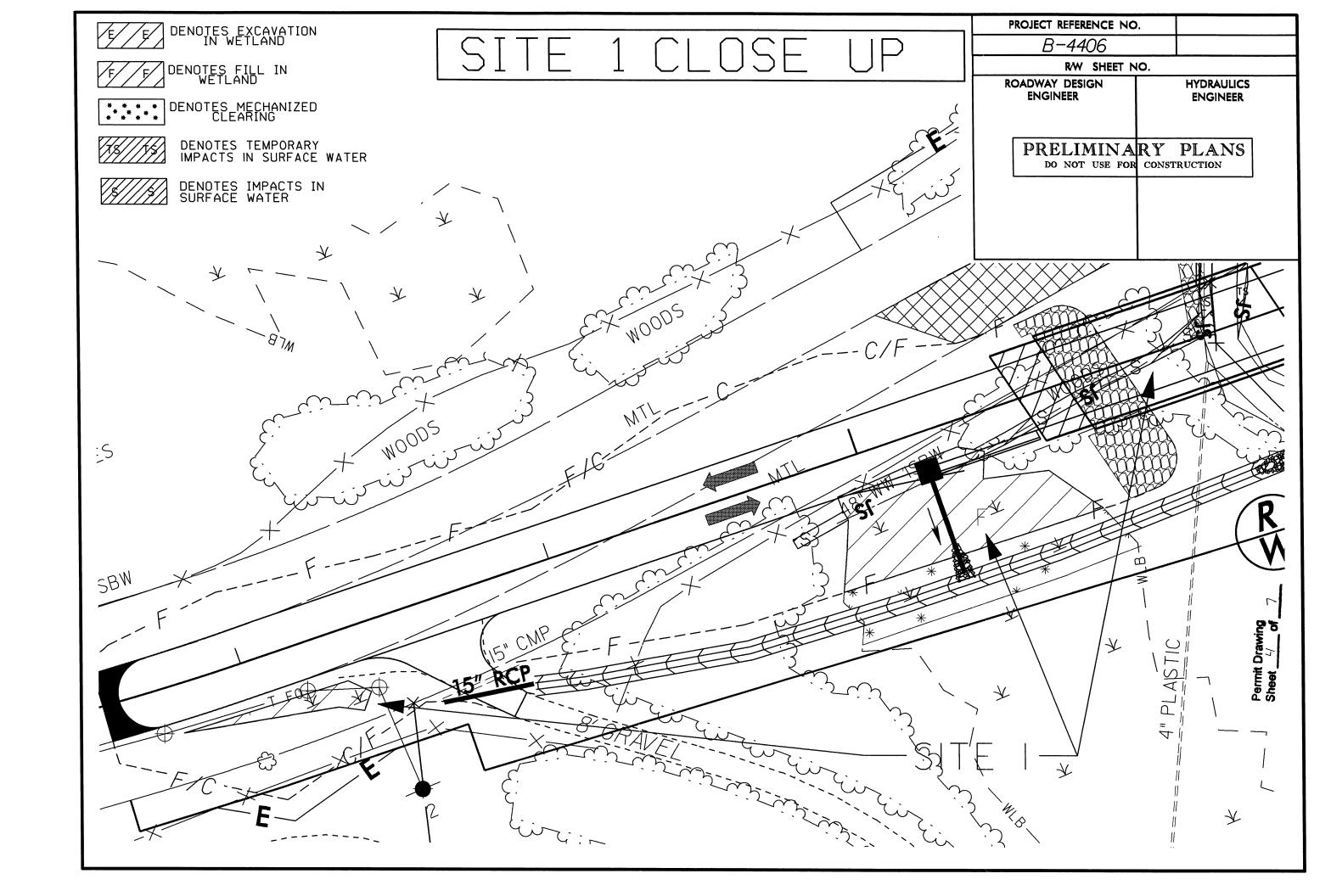
ŠΈ ۾ چ ري 5 రెక్ట్ SCM Type | Complete? | DA (ac.) Page Riparian Buffer and Jurisdictional Stream Impacts and Associated SCMs stream bank stablization stream bank stablization Proposed Structure existing bridge removal existing bridge removal existing bridge removal Roadway Fill Highway Stormwater Program STORMWATER MANAGEMENT PLAN **Environmental Summary** Classific-ation? Buffer? ž 2 2 2 2 2 Jurisdict. Stream Stream Type UT to Prathers Creek Stream Name Prathers Creek Prathers Creek Prathers Creek Prathers Creek Prathers Creek 12+81 to 15+66 Rt 16+15 to 16+30 Lt General Comments: Station 16+30 LI 16+33 Rt 16+52 Lt 16+73 Rt

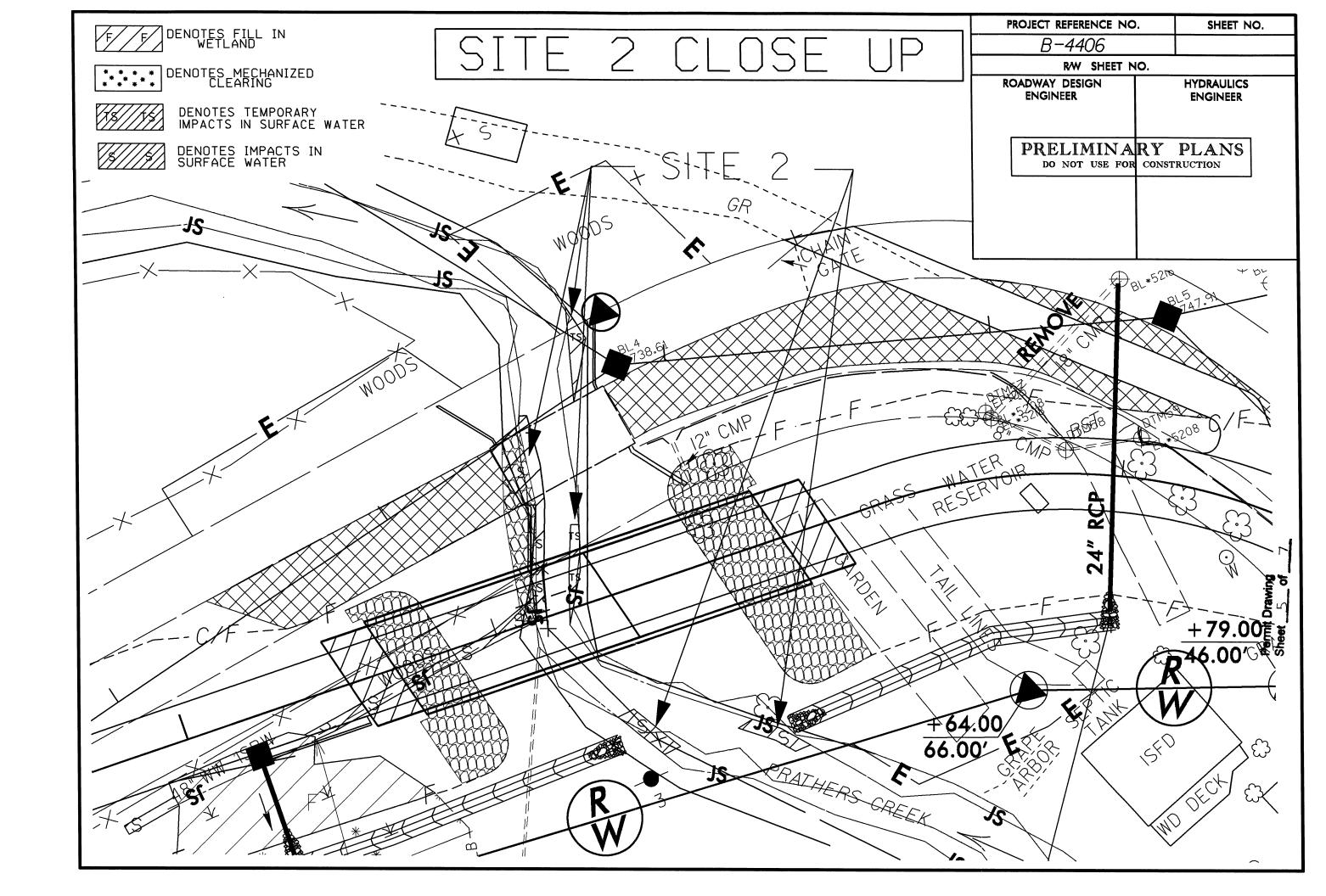


PROJECT REFERENCE NO.









			Natural	Stream	Design (ft)																
C +	ACIS	Existing	Channel	Impacts	emb (£)																
	SURFACE WATER IMPACTS	Existing	Channel	Impacts	Permanent (ft)		50	63	3		18		18								149
>	SURFACE		Temp.		impacts (ac)					0.002		0.002									0.00
SUMMAR			Permanent	SW	impacts (ac)																
T IMPACT		Hand	ing		Wetlands (ac)	1															
WETLAND PERMIT IMPACT SUMMARY	STS		Excavation Mechanized	Clearing	in Wetlands (ac)		0.02														0.02
WETL	WETLAND IMPACTS		Excavation	. ⊆	Wetlands (ac)		0.01														0.01
			Temp.	Fill In	Wetlands (ac)																
			Permanent	Fill	Wetlands (ac)	0.01	0.04														0.05
				Structure	Size / Type	Roadway fill	Roadway fill		stream bank stablization	proposed bridge	stream bank stablization	existing brg removal	stream bank stablization								
				Station	(From/To)	12+77 / 13+35 Rt	14+81 / 15+66 Rt		16+15 / 16+30 Lt	16+30 Lt	16+33 Rt	16+52 Lt									-
				Site	o Ž	-			7											1	TOTALS

NC DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

COUNTY WBS - 33685.1.1 (B-4406)

7/22/2011

Permit Drawing 7

PROPERTY OWNERS

NAMES AND ADDRESSES

PARCEL NO.	NAMES	ADDRESSES	
1	DOROTHY W.STURGILL	US HWY 221 1750 HWY 88 WEST WEST JEFFERSON NC 28694	
3	T.KENNETH BRADY	US HWY 221 PO BOX 277 SPARTA NC 28675	

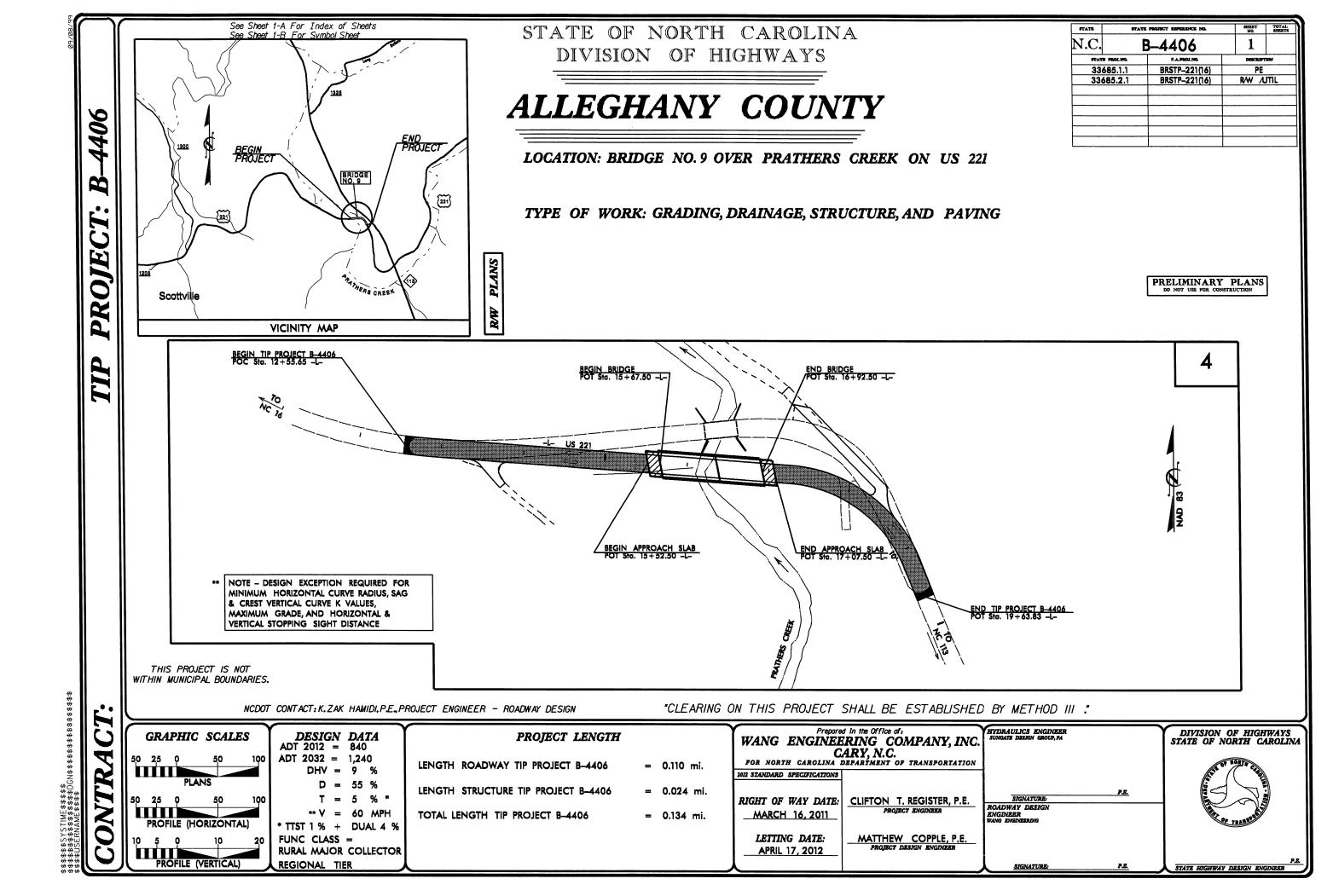
Sheet 7 of 7

NCDOT

DIVISION OF HIGHWAYS
ALLEGHANY COUNTY
PROJECT: 33685.1.1 (B-4406)
US 221 OVER PRATHERS CREEK

SHEET 2 OF

10/16/01



PROJECT REFERENCE NO.

SHEET NO.

APPROVED JURISDICTIONAL DETERMINATION FORM U.S. Army Corps of Engineers

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

SEC A.	TION I: BACKGROUND INFORMATION REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD):
В.	DISTRICT OFFICE, FILE NAME, AND NUMBER:
C.	PROJECT LOCATION AND BACKGROUND INFORMATION: State: NC B-4406
	Name of watershed or Hydrologic Unit Code (HUC): 05050001 Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request. Check if other sites (e.g., offsite mitigation sites, disposal sites, etc) are associated with this action and are recorded on a different JD form.
D.	REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY): Office (Desk) Determination. Date: Field Determination. Date(s): 9/9/2010
	CTION II: SUMMARY OF FINDINGS RHA SECTION 10 DETERMINATION OF JURISDICTION.
	ere Are "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review a. [Required] Waters subject to the ebb and flow of the tide. Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce Explain:
В.	CWA SECTION 404 DETERMINATION OF JURISDICTION.
Th	ere Are "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required]
	1. Waters of the U.S. a. Indicate presence of waters of U.S. in review area (check all that apply): TNWs, including territorial seas Wetlands adjacent to TNWs Relatively permanent waters² (RPWs) that flow directly or indirectly into TNWs Non-RPWs that flow directly or indirectly into TNWs Wetlands directly abutting RPWs that flow directly or indirectly into TNWs Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs Impoundments of jurisdictional waters Isolated (interstate or intrastate) waters. including isolated wetlands
	b. Identify (estimate) size of waters of the U.S. in the review area: Non-wetland waters: 50 linear feet: 12 width (ft) and/or acres. Wetlands: 0.1 acres.
	c. Limits (boundaries) of jurisdiction based on: Not Applicable. Elevation of established OHWM (if known:
	2 Nan-regulated waters/wetlands (check if annlicable). 3

Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional.

Explain:

¹ Boxes checked below shall be supported by completing the appropriate sections in Section III below.

For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

3 Supporting documentation is presented in Section III.F

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

1. TNW

Identify TNW: Prather's Creek.

Summarize rationale supporting determination:

2. Wetland adjacent to TNW

Summarize rationale supporting conclusion that wetland is "adjacent":

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under Rapanos have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are "relatively permanent waters" (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody⁴ is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

1. Characteristics of non-TNWs that flow directly or indirectly into TNW

(i) General Area Conditions:

Watershed size: 3 square miles

Drainage area: 20 acres

Average annual rainfall: 48 inches Average annual snowfall: 6.4 inches

(ii) Physical Characteristics:

(a) Relationship with TNW:

☐ Tributary flows directly into TNW.

☐ Tributary flows through Pick List tributaries before entering TNW.

Project waters are 1 (or less) river miles from TNW.

Project waters are Pick List river miles from RPW.

Project waters are 1 (or less) aerial (straight) miles from TNW.

Project waters are Pick List aerial (straight) miles from RPW.

Project waters cross or serve as state boundaries. Explain:

Identify flow route to TNW5: direct.

Tributary stream order, if known: first order.

A Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

(1)}	(b) General Tributary Characteristics (check all that apply): Tributary is: ☐ Natural ☐ Artificial (man-made). Explain: ☐ Manipulated (man-altered). Explain:	
		Tributary properties with respect to top of bank (estimate): Average width: 2 feet Average depth: 0.1 feet Average side slopes: Vertical (1:1 or less).	
		Primary tributary substrate composition (check all that apply): Silts Sands Conc Gravel Muck Bedrock Vegetation. Type/% cover: Other. Explain: leaves.	
		Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: Presence of run/riffle/pool complexes. Explain: absent. Tributary geometry: Relatively straight Tributary gradient (approximate average slope): 0 %	
(c)	(c) Flow: Tributary provides for: Seasonal flow Estimate average number of flow events in review area/year: 20 (or greater) Describe flow regime: Other information on duration and volume:	
		Surface flow is: Confined. Characteristics:	
		Subsurface flow: Unknown. Explain findings: Dye (or other) test performed:	
		Tributary has (check all that apply): Bed and banks OHWM ⁶ (check all indicators that apply): clear, natural line impressed on the bank the presence of lit destruction of terr shelving the presence of will be presence of w	estrial vegetation rack line or predicted flow events
		If factors other than the OHWM were used to determine lateral extent of CW. High Tide Line indicated by: Oil or scum line along shore objects Fine shell or debris deposits (foreshore) Physical markings/characteristics Other (list): Mean High Water Markings survey to available physical markings; vegetation lines/ch	k indicated by: datum;
(iii)	Cl	(i) Chemical Characteristics: Characterize tributary (e.g., water color is clear, discolored, oily film; water quality Explain; seasonal water is typically turbid. Identify specific pollutants, if known:	y; general watershed characteristics, etc.)

⁶A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.

Third.

	(iv)		ogical Characteristics. Channel supports (check all that apply): Riparian corridor. Characteristics (type, average width): Wetland fringe. Characteristics: Habitat for: Federally Listed species. Explain findings: Fish/spawn areas. Explain findings: Other environmentally-sensitive species. Explain findings: Aquatic/wildlife diversity. Explain findings:
2.	Cha	racti	eristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW
	(i)		Sical Characteristics: General Wetland Characteristics: Properties: Wetland size:0.1acres Wetland type. Explain: Riparian. Wetland quality. Explain: Poor; in agricultural field. Project wetlands cross or serve as state boundaries. Explain:
		(b)	General Flow Relationship with Non-TNW: Flow is: Ephemeral flow. Explain: Surface flow is: Overland sheetflow Characteristics: Subsurface flow: Unknown. Explain findings: Dye (or other) test performed:
		(c)	Wetland Adjacency Determination with Non-TNW: ☐ Directly abutting ☐ Discrete wetland hydrologic connection. Explain: ☐ Ecological connection. Explain: ☐ Separated by berm/barrier. Explain:
		(d)	Proximity (Relationship) to TNW Project wetlands are 1 (or less) river miles from TNW. Project waters are 1 (or less) aerial (straight) miles from TNW. Flow is from: No Flow. Estimate approximate location of wetland as within the 50 - 100-year floodplain.
	(ii)	Cha	emical Characteristics: aracterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality: general watershed characteristics; etc.). Explain: ntify specific pollutants, if known:
	(iii	Bio Bio Bio Bio	Riparian buffer. Characteristics (type, average width): Vegetation type/percent cover. Explain: herbacious 100%. Habitat for: Federally Listed species. Explain findings: Fish/spawn areas. Explain findings: Other environmentally-sensitive species. Explain findings: Aquatic/wildlife diversity. Explain findings:
3.	Ch	All	teristics of all wetlands adjacent to the tributary (if any) wetland(s) being considered in the cumulative analysis:

For each wetland, specify the following:

Directly abuts? (Y/N)
yes

Size (în acres)

0.1

Directly abuts? (Y/N)

Size (in acres)

Summarize overall biological, chemical and physical functions being performed: wetland has been manipulated to drain agricultural field.

C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Draw connections between the features documented and the effects on the TNW, as identified in the Rapanos Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and
 other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

- 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D:
- 2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:
- 3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT APPLY):

I.	TNWs and Adjacent Wetlands. Check all that apply and provide size estimates in review area: TNWs: 50linear feet12width (ft), Or, acres. Wetlands adjacent to TNWs: 0.1 acres.
2.	RPWs that flow directly or indirectly into TNWs. Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial: score 25.75 - intermittent.
	Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally:

	Provide estimates for jurisdictional waters in the review area (check all that apply): Tributary waters: 50 linear feet 1width (ft). Other non-wetland waters: a cres.	
	Identify type(s) of waters:	
3.	Non-RPWs ^a that flow directly or indirectly into TNWs. Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.	
	Provide estimates for jurisdictional waters within the review area (check all that apply): Tributary waters: linear feet width (ft). Other non-wetland waters: acres. Identify type(s) of waters:	
4.	Wetlands directly abutting an RPW that flow directly or indirectly into TNWs. Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands. Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:	
	Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:	S
	Provide acreage estimates for jurisdictional wetlands in the review area: 0.1 acres.	
5.	Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs. Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this conclusion is provided at Section III.C.	t
	Provide acreage estimates for jurisdictional wetlands in the review area: acres.	
6.	Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs. Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent an with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.	d
	Provide estimates for jurisdictional wetlands in the review area: acres.	
7.	Impoundments of jurisdictional waters. As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional. Demonstrate that impoundment was created from "waters of the U.S.," or Demonstrate that water meets the criteria for one of the categories presented above (1-6), or Demonstrate that water is isolated with a nexus to commerce (see E below).	
DE SU D	DLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, GRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY CH WATERS (CHECK ALL THAT APPLY): 10 which are or could be used by interstate or foreign travelers for recreational or other purposes. from which fish or shellfish are or could be taken and sold in interstate or foreign commerce. which are or could be used for industrial purposes by industries in interstate commerce. Interstate isolated waters. Explain: Other factors. Explain:	

E.

 ⁸See Footnote # 3.
 To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.
 Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

Identify water body and summarize rationale supporting determination: Provide estimates for jurisdictional waters in the review area (check all that apply): Tributary waters: linear feet widt h (ft). Other non-wetland waters: Identify type(s) of waters: Wetlands: acres. F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY): If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements. Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce. Prior to the Jan 2001 Supreme Court decision in "SWANCC." the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR). Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain: Other: (explain, if not covered above): Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply): Non-wetland waters (i.e., rivers, streams): li near feet width (ft). Lakes/ponds: acres. acres. List type of aquatic resource: Other non-wetland waters: Wetlands: acres. Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (check all that apply): Non-wetland waters (i.e., rivers, streams): width (ft). li near feet. Lakes/ponds: acres. Other non-wetland waters: acres. List type of aquatic resource: Wetlands: acres. SECTION IV: DATA SOURCES. A. S e included in case file and, where checked

	ORTING DATA. Data reviewed for JD (check all that apply - checked items shall be
and i	requested, appropriately reference sources below):
Щ	Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant:
Ш	Data sheets prepared/submitted by or on behalf of the applicant/consultant.
	Office concurs with data sheets/delineation report.
	Office does not concur with data sheets/delineation report.
	Data sheets prepared by the Corps:
П	Corps navigable waters' study:
M	U.S. Geological Survey Hydrologic Atlas:
	□ USGS NHD data.
	USGS 8 and 12 digit HUC maps.
П	U.S. Geological Survey map(s). Cite scale & quad name:
Ħ	USDA Natural Resources Conservation Service Soil Survey. Citation:
Ħ	National wetlands inventory map(s). Cite name:
Ħ	State/Local wetland inventory map(s):
Ħ	FEMA/FIRM maps:
Ħ	100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)
H	· · · · · · · · · · · · · · · · · · ·
ш	Photographs: Aerial (Name & Date):
***************************************	or Other (Name & Date):
Ш	Previous determination(s). File no. and date of response letter:
Ш	Applicable/supporting case law: .
	Applicable/supporting scientific literature:
	Other information (please specify):

B. ADDITIONAL COMMENTS TO SUPPORT JD: