

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

PAT L. MCCRORY
GOVERNOR

ANTHONY J. TATA
SECRETARY

May 23, 2013

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

Subject: Application for Section 404 Nationwide Permit 13 for the proposed

replacement of Bridge No. 5 over Little Hunting Creek on SR 2418 (Mitchell Mill Road) in Wilkes County, Federal Aid Project No. BRZ-2418(1); Division 11; WBS No. 38616.1.1; TIP No. B-4846

Dear Sir:

The North Carolina Department of Transportation (NCDOT) proposes to replace Bridge No. 5 over Little Hunting Creek with an 82-foot long, single-span bridge with a 33-inch box beam superstructure. There will be 30 linear feet of permanent impacts to Little Hunting Creek from streambank stabilization (10 linear feet of impact at each of three locations).

Please see enclosed copies of the Pre-Construction Notification (PCN), Stormwater Management Plan, permit drawings, and design plans. A Programatic Categorical Exclusion (PCE) was completed in September 2012 and distributed shortly thereafter. 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.

This project calls for a letting date of January 21, 2014 and a review date of December 3, 2013; 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 call Bill Barrett at (919) 707-6103 or by e.mail at wabarrett@ncdot.gov.

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

cc:

NCDOT Permit Application Standard Distribution List





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

	Pre-Construction Notification (PCN) Form					
A.	Applicant Information					
1.	Processing					
1a.	a. Type(s) of approval sought from the Corps:					
1b.	Specify Nationwide Permit (NWP) number: 1	3 or General Permit (G	P) number:		
1c.	Has the N WP or GP number bee	n verified b	by the Corps?	☐ Yes	⊠ No	
1d.	Type(s) of approval sought from	the DWQ (check all that apply):			
ŧ		n – Regula	r Non-404 Jurisdictions	al General Permi	t	
	☐ 401 Water Quality Certificatio	n – Expres	s Riparian Buffer Autho	orization		
1e.	Is this notification solely for the rebecause written approval is not r		For the record only for DWQ 401 Certification:	For the record	only for Corps Permit:	
		·	⊠ Yes □ No	☐ Yes	⊠ No	
1f.	f. 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.	g. 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:	Replacem	nent of Bridge 5 over Little Hunting C	reek on SR 2418	3.	
2b.	County:	Wilkes				
2c.	Nearest municipality / town:	Wilkesboı	ro			
2d.	Subdivision name:	not applic	eable			
2e.	NCDOT only, T.I.P. or state project no:	B-4846				
3.	Owner Information					
3a.	Name(s) on Recorded Deed:	North Car	rolina Department of Transportation			
	Deed Book and Page No.	not applic	eable			
3c.	Responsible Party (for LLC if applicable):	not applicable				
3d.	Street address:	1598 Mai	Service Center			
3e.	City, state, zip:	Raleigh, I	NC 27699-1598			
3f.	Telephone no.:	(919) 707	-6103		Man and a second	
3g.	Fax no.:	(919) 212	-5785			
3h.	Email address:	wabarrett	@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	ı (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: 36.09 (DD.DDD		Longitude: - 80.930612 (-DD.DDDDDD)	
1c.	Property size:	0.23 acres			
2.	Surface Waters				
2a.	Name of nearest body of water (stream, river, etc.) to proposed project:	Little Hunting	Creek		
2b.	Water Quality Classification of nearest receiving water:	WS-III			
2c.	River basin:	Yadkin-Pee D	ee		
3.	Project Description				
3а.	 Describe the existing conditions on the site and the general land use in the vicinity of the project at the time of this application: Rural, wooded, agriculture, and single-family home. 				
21-		nranarti.	- 1131311 annu		
3D.	List the total estimated acreage of all existing wetlands on the	property.			
			:-I\		
3c.	List the total estimated linear feet of all existing streams (interm 235	nittent and perer	inial) on the pr	орепу:	
3d.	Explain the purpose of the proposed project: Example: To replace a structurally deficient (sufficiency rating geometry appraisal of 2 out of 9) bridge.	of 21.2 out of 10	00) and functio	nally obsolete (deck	
3e.	Describe the overall project in detail, including the type of equi The project involves replacing a 60-foot bridge with a 82-foot, detour. Standard road building equipment, such as trucks, doz	single-span brid	ge on the exist	ting alignment with an off-site	
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	⊠ No	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/Const Other:	ultant Compan	y:	
4d.	If yes, list the dates of the Corps jurisdictional determinations	or State determi	nations and att	tach documentation.	
5.	Project History				
5a.	Have permits or certifications been requested or obtained for this project (including all prior phases) in the past?	☐ Yes	⊠ No	Unknown	
5b.	If yes, explain in detail according to "help file" instructions.			-	
6.	Future Project Plans				
6a.	Is this a phased project?	☐ Yes	⊠ No		
6b.	If yes, explain.				

C. Proposed Imp	acts Inventory					
1. Impacts Summ	nary			,		
1a. Which sections	were completed be	elow for your project	check all that a	apply):		
☐ Wetlands	<u>⊠</u> \$	Streams - tributaries	□ Bu	iffers		
☐ Open Water	s 🔲 F	Pond Construction				
2. Wetland Impac						
'		on the site, then com	plete this quest	tion for each wetland	area impacte	d.
2a.	2b.	2c.	2d.	2e.	-	2f.
Wetland impact number –	Type of impact	Type of wetland	Forested	Type of jurisd (Corps - 404		Area of impact
Permanent (P) or	Type of impact	(if known)	1 0/00/04	DWQ – non-404		(acres)
Temporary (T)			Yes	Corps		
Site 1 DPTT			□ les	DWQ		
Site 2 P T			☐ Yes	☐ Corps		
Site 2 L. I L. I			□ No	DWQ		
Site 3 P T			│	│		
01. 4 DDDT			Yes	Corps		
Site 4 P T			☐ No	☐ DWQ		
Site 5 P T			Yes	│		
			☐ No☐ Yes	Corps		
Site 6 P T			□ No	☐ DWQ		
2g Total wetland impacts X Permanent						
				zg. rotar wettar	iu iiipacts	X Temporary
2h. Comments:				zg. rotar wettar	iid iiiipacts	X Temporary
3. Stream Impact						•
3. Stream Impact If there are perennia	al or intermittent str	ream impacts (includi	ng temporary ir	mpacts) proposed on t		•
3. Stream Impact If there are perennia question for all stream	al or intermittent str		ng temporary ir	mpacts) proposed on t		•
3. Stream Impact If there are perennia question for all strea 3a. Stream impact	al or intermittent str am sites impacted.	ream impacts (includi 3c. Stream name	3d. Perennial	mpacts) proposed on to	the site, then 3f. Average	complete this 3g. Impact length
3. Stream Impact If there are perennia question for all strea 3a. Stream impact number -	al or intermittent stram sites impacted. 3b.	3c.	3d. Perennial (PER) or	mpacts) proposed on to 3e. Type of jurisdiction	the site, then 3f. Average stream	complete this
3. Stream Impact If there are perennia question for all strea 3a. Stream impact	al or intermittent stram sites impacted. 3b.	3c.	3d. Perennial	mpacts) proposed on to	the site, then 3f. Average	complete this 3g. Impact length
3. Stream Impact If there are perennia question for all strea 3a. Stream impact number - Permanent (P) or	al or intermittent str am sites impacted. 3b. Type of impact	3c. Stream name	3d. Perennial (PER) or intermittent (INT)?	Type of jurisdiction (Corps - 404, 10 DWQ – non-404, other)	3f. Average stream width	complete this 3g. Impact length
3. Stream Impact If there are perennia question for all strea 3a. Stream impact number - Permanent (P) or	al or intermittent stram sites impacted. 3b. Type of impact	3c. Stream name	3d. Perennial (PER) or intermittent (INT)?	Type of jurisdiction (Corps - 404, 10 DWQ – non-404, other)	3f. Average stream width	complete this 3g. Impact length
3. Stream Impact If there are perennia question for all strea 3a. Stream impact number - Permanent (P) or Temporary (T) Site 1 \(\text{P} \) \(\text{T} \)	al or intermittent str am sites impacted. 3b. Type of impact	3c. Stream name	3d. Perennial (PER) or intermittent (INT)?	Type of jurisdiction (Corps - 404, 10 DWQ – non-404, other)	3f. Average stream width (feet)	complete this 3g. Impact length (linear feet)
3. Stream Impact If there are perennia question for all strea 3a. Stream impact number - Permanent (P) or Temporary (T)	al or intermittent stram sites impacted. 3b. Type of impact	3c. Stream name	3d. Perennial (PER) or intermittent (INT)? PER INT PER INT	Type of jurisdiction (Corps - 404, 10 DWQ – non-404, other) Corps DWQ Corps DWQ Corps DWQ DWQ	3f. Average stream width (feet)	complete this 3g. Impact length (linear feet)
3. Stream Impact If there are perennia question for all strea 3a. Stream impact number - Permanent (P) or Temporary (T) Site 1 \(\text{P} \) \(\text{T} \)	al or intermittent stram sites impacted. 3b. Type of impact	3c. Stream name	3d. Perennial (PER) or intermittent (INT)? PER INT PER INT PER	Type of jurisdiction (Corps - 404, 10 DWQ - non-404, other) Corps DWQ Corps DWQ Corps DWQ Corps DWQ Corps	3f. Average stream width (feet)	complete this 3g. Impact length (linear feet)
3. Stream Impact If there are perennia question for all strea 3a. Stream impact number - Permanent (P) or Temporary (T) Site 1 P T Site 2 P T Site 3 P T	al or intermittent stram sites impacted. 3b. Type of impact	3c. Stream name	3d. Perennial (PER) or intermittent (INT)? PER INT PER INT PER INT	Type of jurisdiction (Corps - 404, 10 DWQ - non-404, other) Corps DWQ Corps DWQ Corps DWQ Corps DWQ Corps DWQ	3f. Average stream width (feet)	complete this 3g. Impact length (linear feet)
3. Stream Impact If there are perennia question for all stread 3a. Stream impact number - Permanent (P) or Temporary (T) Site 1 P T Site 2 P T	al or intermittent stram sites impacted. 3b. Type of impact	3c. Stream name	3d. Perennial (PER) or intermittent (INT)? PER INT PER INT PER	Type of jurisdiction (Corps - 404, 10 DWQ - non-404, other) Corps DWQ Corps DWQ Corps DWQ Corps DWQ Corps	3f. Average stream width (feet)	complete this 3g. Impact length (linear feet)
3. Stream Impact If there are perennia question for all stread 3a. Stream impact number - Permanent (P) or Temporary (T) Site 1 P T Site 2 P T Site 3 P T Site 4 P T	al or intermittent stram sites impacted. 3b. Type of impact	3c. Stream name	3d. Perennial (PER) or intermittent (INT)? PER INT PER INT PER INT PER INT PER INT	Type of jurisdiction (Corps - 404, 10 DWQ - non-404, other) Corps DWQ Corps	3f. Average stream width (feet)	complete this 3g. Impact length (linear feet)
3. Stream Impact If there are perennia question for all strea 3a. Stream impact number - Permanent (P) or Temporary (T) Site 1 P T Site 2 P T Site 3 P T	al or intermittent stram sites impacted. 3b. Type of impact	3c. Stream name	3d. Perennial (PER) or intermittent (INT)? PER INT PER INT PER INT PER INT PER INT	anpacts) proposed on the state of the state	3f. Average stream width (feet)	complete this 3g. Impact length (linear feet)
3. Stream Impact If there are perennia question for all stread 3a. Stream impact number - Permanent (P) or Temporary (T) Site 1 P T Site 2 P T Site 3 P T Site 4 P T	al or intermittent stram sites impacted. 3b. Type of impact	3c. Stream name	3d. Perennial (PER) or intermittent (INT)? PER INT PER INT PER INT PER INT PER INT	Type of jurisdiction (Corps - 404, 10 DWQ - non-404, other) Corps DWQ Corps	3f. Average stream width (feet)	complete this 3g. Impact length (linear feet)
3. Stream Impact If there are perennia question for all stread 3a. Stream impact number - Permanent (P) or Temporary (T) Site 1 P T Site 2 P T Site 3 P T Site 4 P T Site 5 P T	al or intermittent stram sites impacted. 3b. Type of impact	3c. Stream name	3d. Perennial (PER) or intermittent (INT)? PER INT PER INT PER INT PER INT PER INT PER INT	Type of jurisdiction (Corps - 404, 10 DWQ - non-404, other) Corps DWQ	3f. Average stream width (feet)	complete this 3g. Impact length (linear feet) 30

4. Open	4. Open Water Impacts									
	If there are proposed impacts to lakes, ponds, estuaries, tributaries, sounds, the Atlantic Ocean, or any other open water of the U.S. then individually list all open water impacts below.									
4a.		4b.	4c.	4d.			4e.			
Open w		Name of		_			101-1		A	
impact nu Permanen		waterbody (if applicable)		туре	e of impact	(Waterbod	у туре	Area of im	pact (acres)
Tempora		(ii applicable)								
01 🗆 P 🗋 T										
O2	Р□Т									
O3 □ F) <u>П</u> Т									
04 🗌 F	PΠT									
4f. Total open water impacts X Permanent X Temporary										
4g. Comm	ents:									
5. Pond	or Lake	Construction								
If pond or		struction proposed,	then com	plete	the chart b	elow.				· ·
5a.	5b.		5c.				5d.			5e.
Pond ID	Pro	posed use or	We	Vetland Impacts (acres)		Stream Impac		cts (feet) Upland (acres		
number		pose 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?			ed?	ΠY	es	□ No	If yes, peri	mit ID no		
5i. Exped	cted pond	l surface area (acre	s):							
5j. Size o	of pond w	atershed (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. Project is in which	protected basin?	☐ Neuse ☐ Catawba	☐ Tar-Pamlico ☐ Randleman	Other:			
	Large Company Control of the Control						
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			☐ Yes ☐ No				
B2 □ P □ T			☐ Yes ☐ No				
ВЗ □Р□Т			☐ Yes ☐ No				
		6h. Tota	buffer impacts				
6i. Comments:							

D.	Impact Justification and Mitigation				
1.	Avoidance and Minimization				
1a.	Specifically describe measures taken to avoid or minimize t	he proposed impacts i	in designing project.		
	The proposed bridge is 22 feet longer than the existing bridge or abutting the stream, while the new bridge will span the existing structure; an off site detour will be same grade as the existing structure; and off site detour will be same grade.	ntire stream; the propo	osed bridge will be at approximately the		
1b.	Specifically describe measures taken to avoid or minimize t	he proposed impacts t	through construction techniques.		
	Use of Best Management Practices (BMP) and measures used in the project are non-structural and are an attempt to reduce the stormwater impacts to the receiving stream due to erosion and runoff as well as attenuate and disperse stormwater before entering the receiving waters. Construction will be completed using the "top-down" method. The existing concrete abutments at the stream edge will be sawed off but will remain in place to ensure bank stability.				
2.	Compensatory Mitigation for Impacts to Waters of the U	J.S. or Waters of the	State		
		☐ Yes ⊠ No			
2a.	Does the project require Compensatory Mitigation for impacts to Waters of the U.S. or Waters of the State?	stream bank stabiliza stream does not requ under Section 404 of constitute Loss of Wa compensatory mitiga stabilization activities	CDOT does not propose mitigation for ation activities. Stabilizing the bank of a uire fill in the stream bed and, therefore, if the Clean Water Act, does not aters of the U.S. and is not subject to ation. Furthermore, the proposed bank is are necessary to prevent erosion and reventing bank destabilization, and to the environment.		
2b.	If yes, mitigation is required by (check all that apply):	☐ DWQ ☐ Co	orps		
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:	linear feet			
4c.	If using stream mitigation, stream temperature:	☐ warm ☐ co	ool		
4d	. Buffer mitigation requested (DWQ only):	square feet			
4e	. Riparian wetland mitigation requested:	acres			
4f.	Non-riparian wetland mitigation requested:	acres			
4g	. Coastal (tidal) wetland mitigation requested:	acres			
4h	. Comments:				
5.	Complete if Using a Permittee Responsible Mitigation F	Plan			

5a. If using a permittee responsible mitigation plan, provide a description of the proposed mitigation plan.							
6. Buffer	. Buffer Mitigation (State Regulated Riparian Buffer Rules) – required by DWQ						
	6a. Will the project result in an impact within a protected riparian buffer that requires buffer mitigation?						
	6b. If yes, then identify the square feet of impact to each zone of the riparian buffer that requires mitigation. Calculate the amount of mitigation required.						
Zone	6c. Reason for impact	6d. Total impact (square feet)	Multiplier	F	6e. Required mitigation (square feet)		
Zone 1			3 (2 for Catawba)				
Zone 2			1.5				
		6f. Total buffer	mitigation required:				
6g. If buffer mitigation is required, discuss what type of mitigation is proposed (e.g., payment to private mitigation bank, permittee responsible riparian buffer restoration, payment into an approved in-lieu fee fund).							
6h. Commer	nts:						

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
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.	If this project DOES require a Stormwater Management Plan, then provide a brief, national See attached permit drawings.	rrative description of the plan:
2e.	Who will be responsible for the review of the Stormwater Management Plan?	☐ Certified Local Government☐ DWQ Stormwater Program☐ DWQ 401 Unit
3.	Certified Local Government Stormwater Review	
3a.	In which local government's jurisdiction is this project?	not applicable
3b.	Which of the following locally-implemented stormwater management programs apply (check all that apply):	☐ Phase II ☐ NSW ☐ USMP ☐ Water Supply Watershed ☐ Other:
3c.	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 counties □ HQW □ ORW □ Session Law 2006-246 □ Other:
4b.	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
5b.	Have all of the 401 Unit submittal requirements been met?	☐ Yes ☐ No N/A

F.	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		
	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)				
3а.	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 immost 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 pland uses nor stimulate growth. Therefore, a detailed indirect or cumulative effects st				
4.	Sewage Disposal (DWQ Requirement)	-			
4a.	Clearly detail the ultimate treatment methods and disposition (non-discharge or discharge proposed project, or available capacity of the subject facility. not applicable	arge) of wastewar	ter generated from		

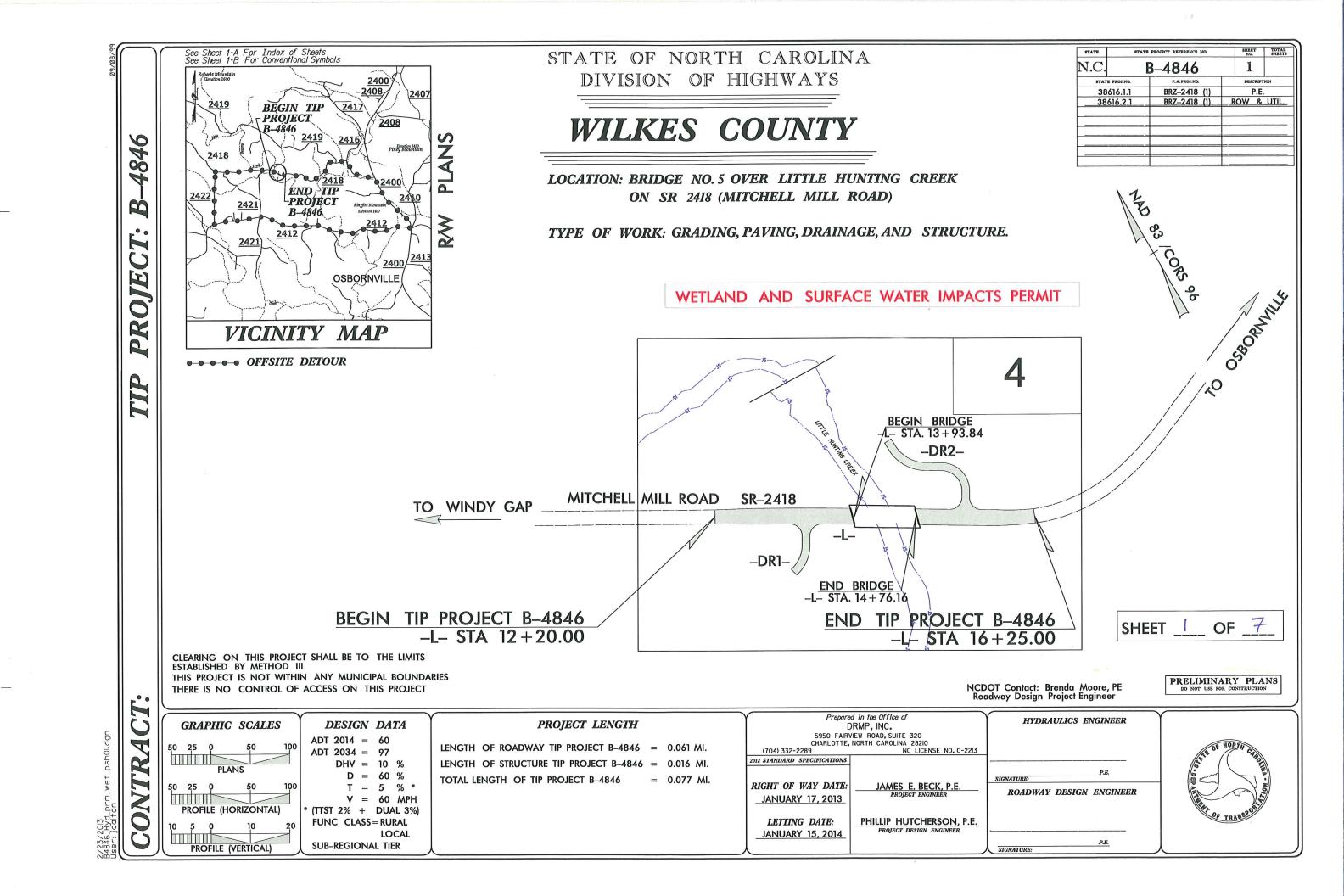
5.	5. Endangered Species and Designated Critical Habitat (Corps Requirement)					
5a.	Will this project occur in or near an are habitat?	a with federally protected species or	☐ Yes	⊠ No		
5b.	Have you checked with the USFWS co impacts?	oncerning Endangered Species Act	☐ Yes	⊠ No		
5c.	If yes, ind icate the USFWS Field Office	☐ Raleigh				
5d.	d. What data sources did you use to determine whether your site would impact Endangered Species or Designated Critical Habitat?					
	NHP, USFWS, NCDOT field surveys. required.	Only the bog turtle is listed for Wilkes Co	ounty, and no biological	conclusion is		
6.	Essential Fish Habitat (Corps Requi	rement)	5			
6a.	Will this project occur in or near an area	a designated as essential fish habitat?	☐Yes	⊠ No		
6b.	6b. What data sources did you use to determine whether your site would impact Essential Fish Habitat? NMFS County Index					
7.	Historic or Prehistoric Cultural Reso	ources (Corps Requirement)				
7a.	7a. Will this project occur in or near an area that the state, federal or tribal governments have designated as having historic or cultural preservation status (e.g., National Historic Trust designation or properties significant in North Carolina history and archaeology)? ☐ Yes ☐ No					
7b.	What data sources did you use to dete	rmine whether your site would impact hi	storic or archeological re	esources?		
8. 1	Flood Zone Designation (Corps Requ	irement)				
8a.	Will this project occur in a FEMA-desig	nated 100-year floodplain?	☐ Yes	⊠ No		
8b.	If yes, explain how project meets FEMA	A requirements: NCDOT Hydraulics Unit	coordination with FEMA	1		
8c.	What source(s) did you use to make the	e floodplain determination? FEMA Maps		,		
Dr. Gregory J. Thorpe, Ph D				5-23·13 Date		



North Carolina Department of Transportation

STORMWATER MANAGEMENT PLAN

Replacement of Bridge No. 5 over Little Hunting Creek on SR 2418 (Mitchell Mill Road). The stream will not be impacted by the proposed bridge project. Construction will be completed using the "top-down" method. The existing concrete abutments at the stream edge will remain in place to ensure bank stability. Stormwater runoff has been conveyed using rip rap lined ditches to prevent potential erosion issues. Rip rap bank stabilization has been specified where the ditches tie to the stream. оf 2/4/2013 **Existing Site** Date: Email: jdalton@sungatedesign.com Sungate Design Group, PA Rural Mountains Address: 915 Jones Franklin Road Raleigh, NC 27606 Phone: (919) 859-2243 Two 9' lanes shoulder section 12-108-16-2 Bridge Replacement Wilkes ž NCDWQ Stream Index No.: Water Supply III (WS-III) Contractor / Designer: None CAMA County? Project Type: FOR LINEAR ROADWAY PROJECTS General Project Information County(ies): Project Description References Surrounding Land Use: aç. Proposed Project Supplemental: Primary: County(ies): Two 10' lanes shoulder section NCDWQ Surface Water Classification for Primary Receiving Water 0.23 Raleigh, NC 27699-1590 Address: 1590 Mail Service Center 0.077 Miles Marshall Clawson, PE Email: mclawson@ncdot.gov None None Little Hunting Creek Design/Future: Yadkin-Pee Dee Phone: (919) 707-6713 Wilkesboro B-4846 Ϋ́ Typical Cross Section Description: Project Length (lin. Miles or feet): Average Daily Traffic (veh/hr/day): Project Built-Upon Area (ac.) Other Stream Classification: Project/TIP No.: B-4846 Version 1.2; Released July 2012) General Project Narrative: Primary Receiving Water: **Buffer Rules in Effect** 303(d) Impairments: NCDOT Contact: River Basin(s): Project No.: City/Town:



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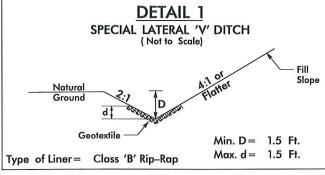
SHEET Z OF 7

PROJECT REFERENCE N	O. SHEET N
B-4846	2-B
RW SHEET	NO
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
	ARY PLANS

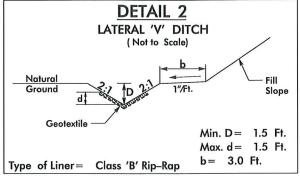




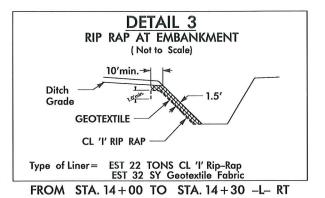
DRAINAGE DETAILS

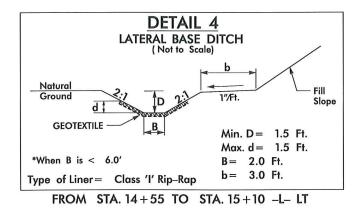


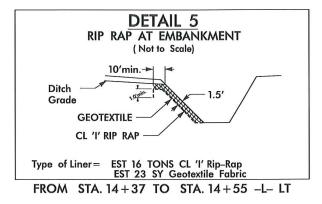
FROM STA. 12+25 TO STA. 13+20 -L- RT

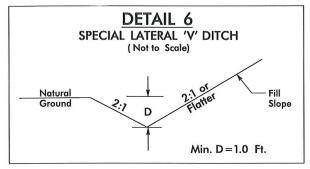


FROM STA. 13+55 TO STA. 14+00 -L- RT

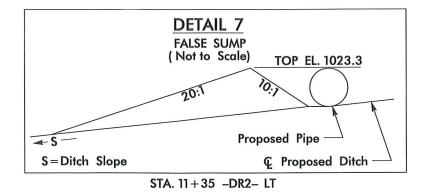




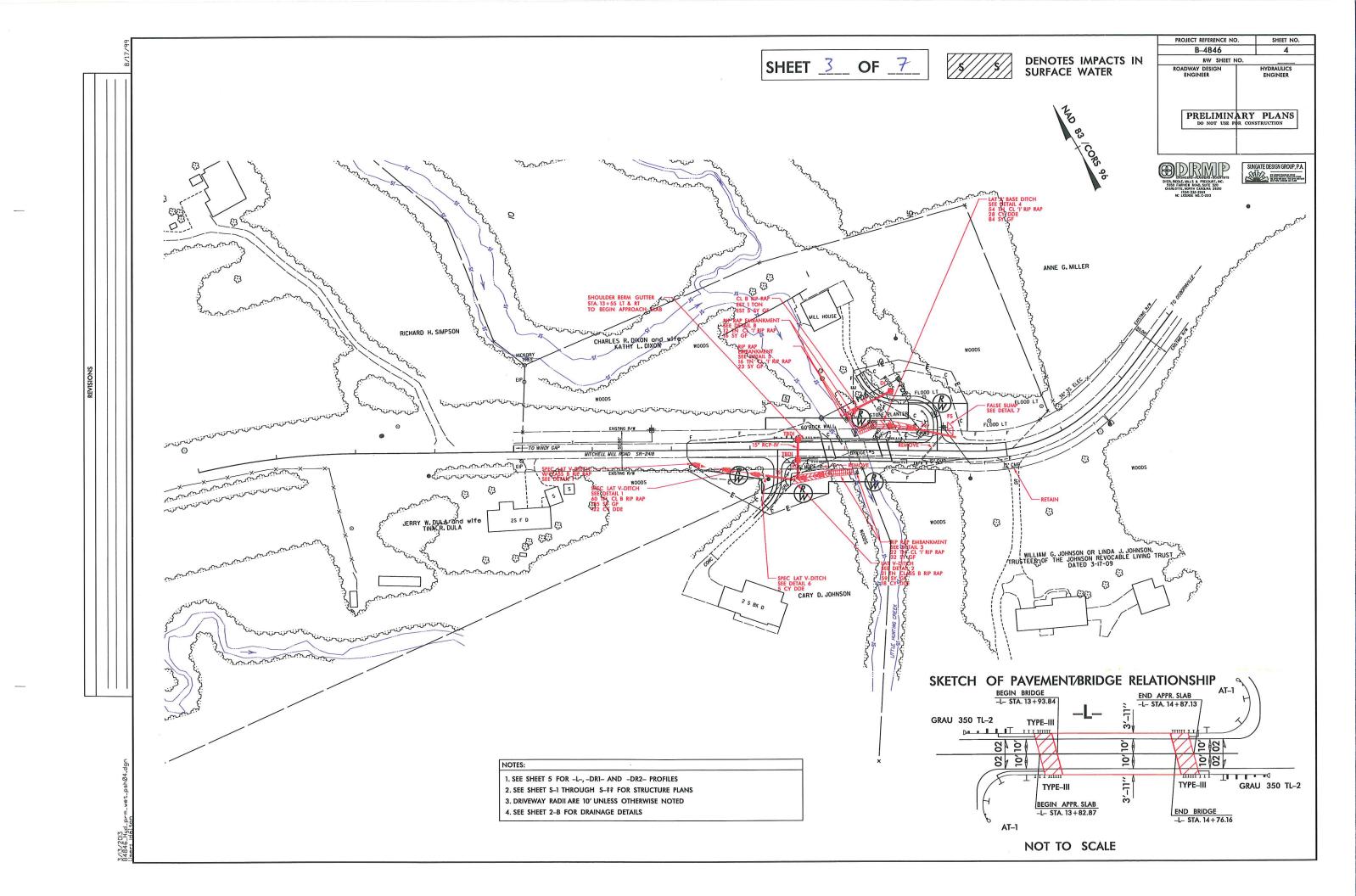


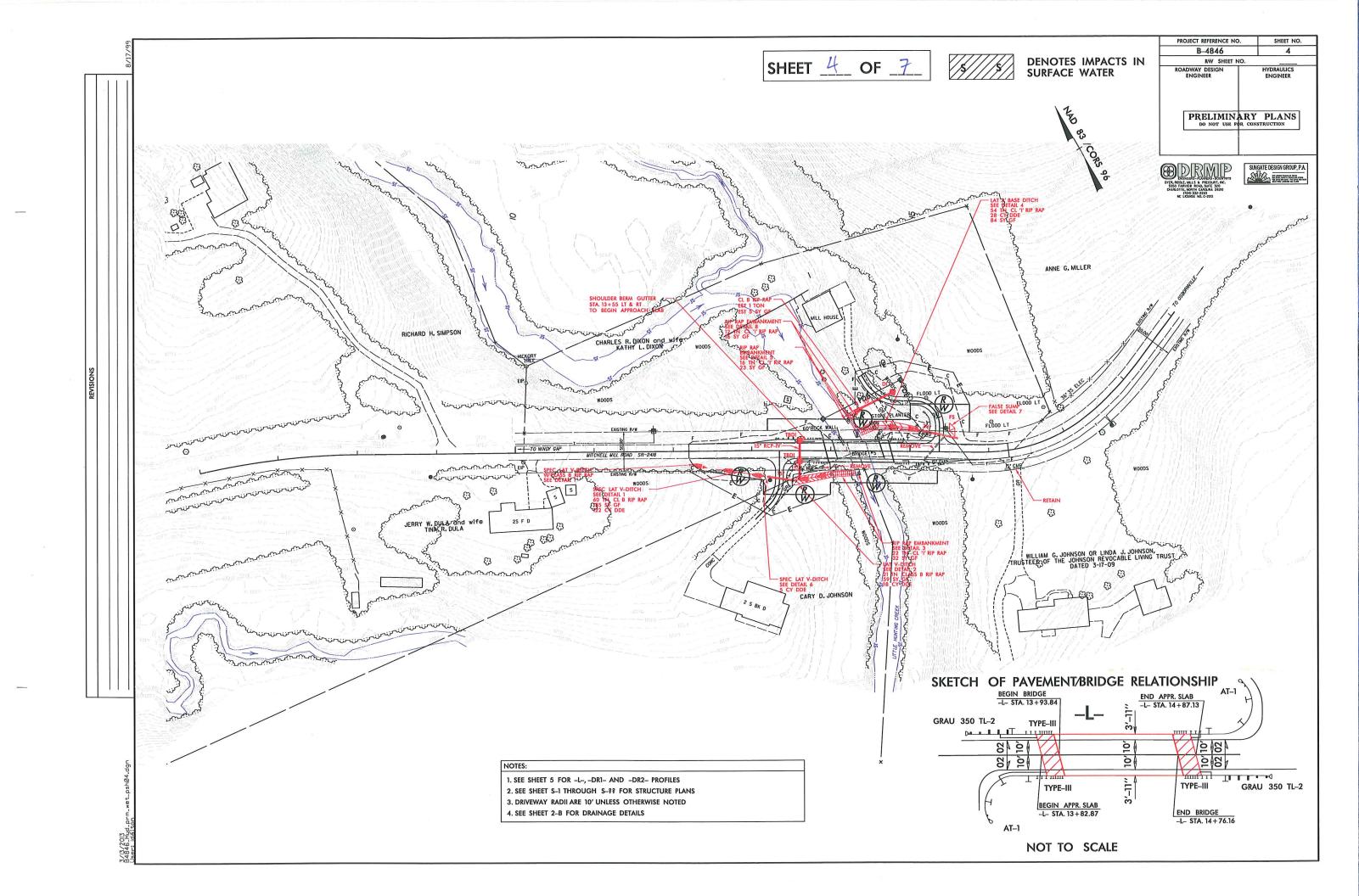


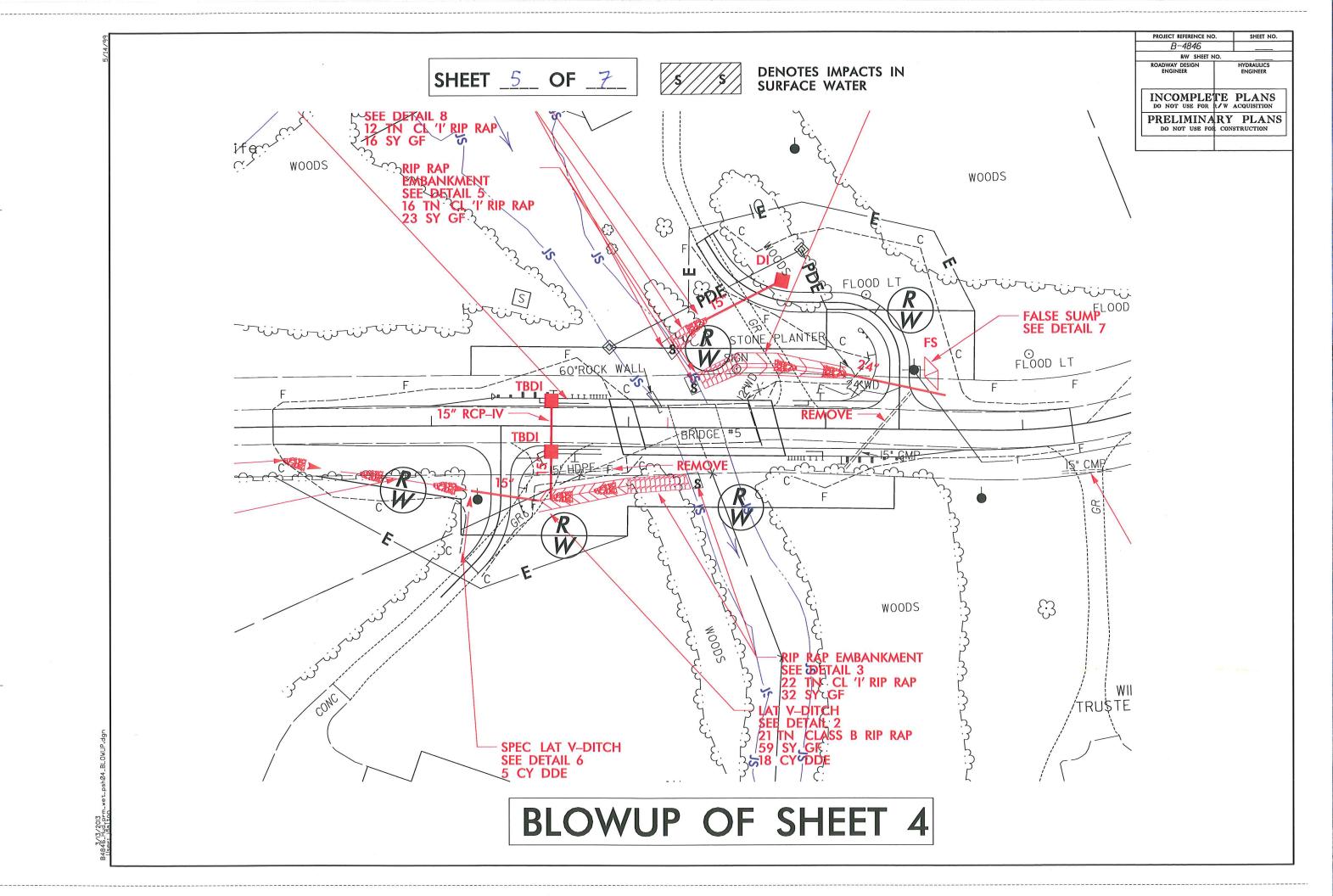
FROM STA. 10+32 TO STA. 10+75 -DR1- RT

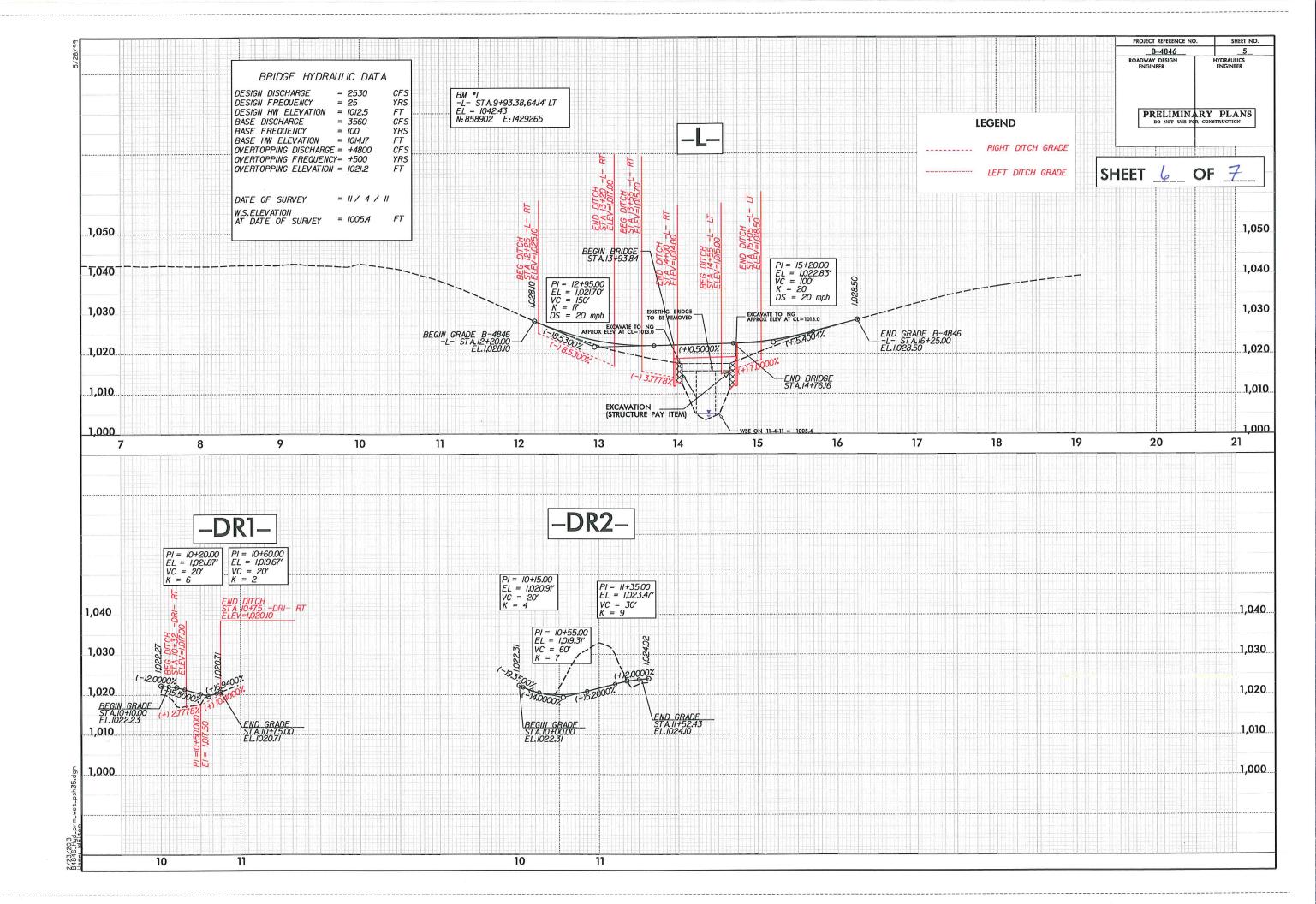


DETAIL 8 RIP RAP AT EMBANKMENT (Not to Scale) Grade **GEOTEXTILE** CL 'I' RIP RAP Type of Liner = EST 12 TONS CL 'I' Rip-Rap EST 16 SY Geotextile Fabric STA. 10 + 25 - DR2- RT









WETLAND PERMIT IMPACT SUMMARY												
			WETLAND IMPACTS			SURFACE WATER IMPACTS						
Site No.	Station (From/To)	Structure Size / Type	Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	in	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
1	13+93 to 14+76 -L-	Streambank Stabilization								30		
			ı									
TOTAL								<0.01		30		

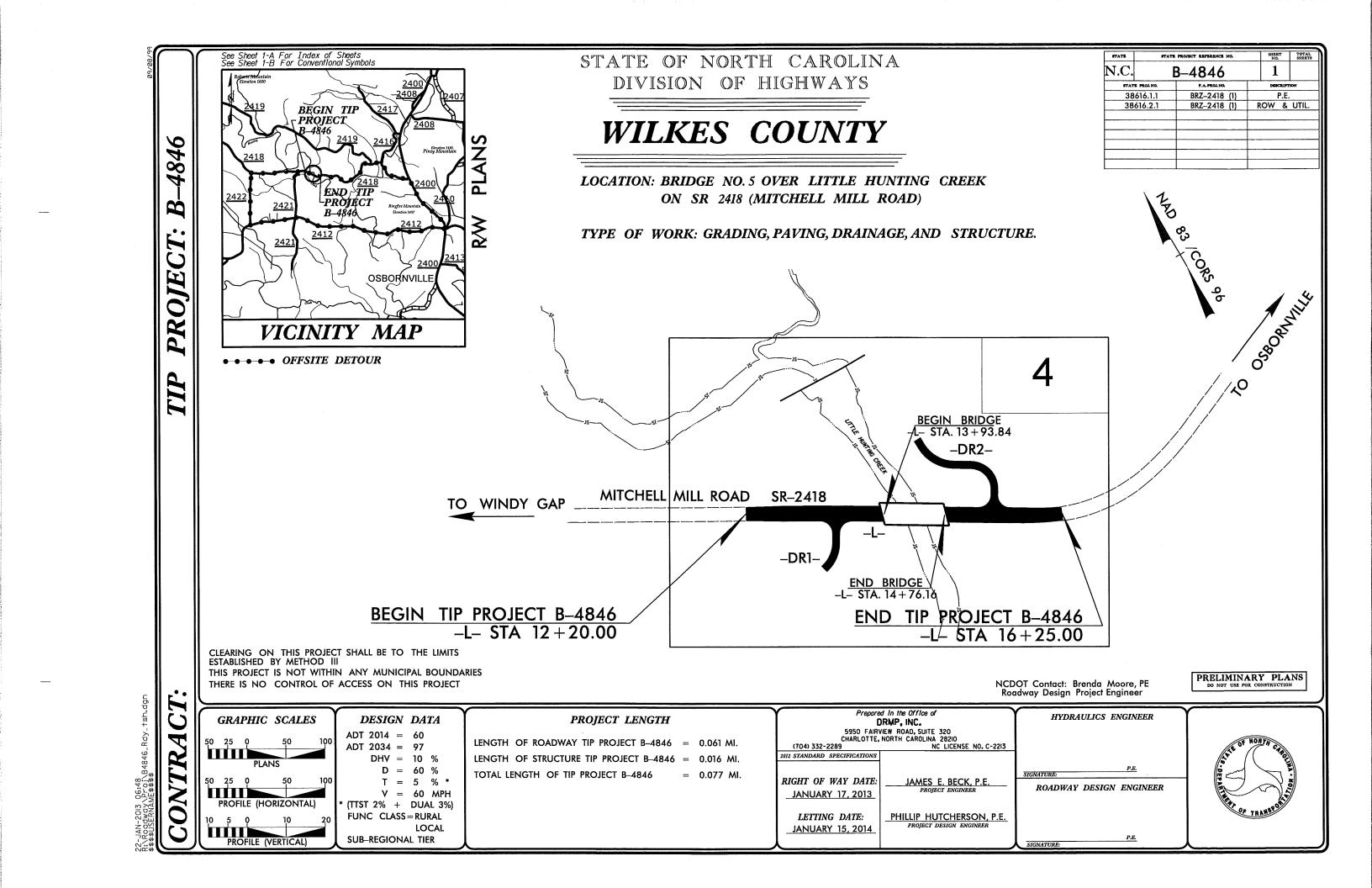
NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

WILKES COUNTY
TIP PROJECT: B-4846
BRIDGE #5 REPLACEMENT

SHEET 7 of 7

3/13/2013

ATN Revised 3/31/05



STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

OJECT REFERENCE NO.	SHEET NO.				
B-4846	I-B				

*S.U.E. = Subsurface Utility Engineering

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:	CONVENTIONA	L FL	AN SHEEL STME	OL3	WATER:	
State Line ————————————————————————————————————					Water Manhole	
County Line ————————————————————————————————————	RAILROADS:				Water Meter	- 0
Township Line ————————————————————————————————————	Standard Gauge	CSX TRANSPORTATION			Water Valve	- ⊗
City Line ————————————————————————————————————	RR Signal Milepost	O WILEPOST 35	Orchard ————————————————————————————————————		Water Hydrant —	- ♦
Reservation Line	Switch	SWITCH	Vineyard ————————————————————————————————————	Vineyord	Recorded U/G Water Line —	
Property Line ————————————————————————————————————	RR Abandoned	<i>SWITCH</i> → → →			Designated U/G Water Line (S.U.E.*)	
Existing Iron Pin	RR Dismantled		EXISTING STRUCTURES:		Above Ground Water Line	
Property Corner ———————————————————————————————————	RIGHT OF WAY:		MAJOR:		7,5070 0,00114 174.07 2.110	
Property Monument — :	Baseline Control Point	A	Bridge, Tunnel or Box Culvert		TV:	
Parcel/Sequence Number ——— @3	Existing Right of Way Marker	V	Bridge Wing Wall, Head Wall and End Wall –	CONC MM	TV Satellite Dish	- K
Existing Fence Line ————————————————————————————————————		23	MINOR: Head and End Wall		TV Pedestal	
Proposed Woven Wire Fence	Existing Right of Way Line		Pipe Culvert		TV Tower —	
	Proposed Right of Way Line					_
Proposed Chain Link Fence	Proposed Right of Way Line with Iron Pin and Cap Marker		Footbridge		U/G TV Cable Hand Hole	
Proposed Barbed Wire Fence	Proposed Right of Way Line with	- A	Drainage Box: Catch Basin, DI or JB		Recorded U/G TV Cable —	
Existing Wetland Boundary	Concrete or Granite RW Marker		Paved Ditch Gutter		Designated U/G TV Cable (S.U.E.*)	
Proposed Wetland Boundary	Proposed Control of Access Line with	A O	Storm Sewer Manhole	(S)	Recorded U/G Fiber Optic Cable ————	
Existing Endangered Animal Boundary ————————————————————————————————————	Concrete C/A Marker		Storm Sewer	s	Designated U/G Fiber Optic Cable (S.U.E.*)	
Existing Endangered Plant Boundary ———————————————	Existing Control of Access	\U/				
Known Soil Contamination: Area or Site ————————————————————————————————————	Proposed Control of Access —————		UTILITIES:		GAS:	
Potential Soil Contamination: Area or Site $ x - x$	Existing Easement Line ————————————————————————————————————		POWER:		Gas Valve	
BUILDINGS AND OTHER CULTURE:	Proposed Temporary Construction Easement –	——Е——	Existing Power Pole	.	Gas Meter	
Gas Pump Vent or U/G Tank Cap ——— O	Proposed Temporary Drainage Easement ——	TDE	Proposed Power Pole	Ä	Recorded U/G Gas Line	c
Sign O	Proposed Permanent Drainage Easement ——	PDE	Existing Joint Use Pole —————	<u>.</u>	Designated U/G Gas Line (S.U.E.*)	
Well ————	Proposed Permanent Drainage / Utility Easement	DUE	Proposed Joint Use Pole	Ž.	Above Ground Gas Line	A/G Gos
Small Mine 💮 🛠	Proposed Permanent Utility Easement —	PUE	Power Manhole ————————————————————————————————————	- 0-		
Foundation	Proposed Temporary Utility Easement ———	TUE		®	SANITARY SEWER:	
Area Outline	Proposed Aerial Utility Easement	AUE	Power Line Tower —	⊠ _	Sanitary Sewer Manhole	®
	Bearing Borner and Eggament with		Power Transformer ———————————————————————————————————	M	Sanitary Sewer Cleanout ————————————————————————————————————	
Cemetery †	Proposed Permanent Easement with Iron Pin and Cap Marker		U/G Power Cable Hand Hole		U/G Sanitary Sewer Line —————	
Building —	ROADS AND RELATED FEATURE	S:	H-Frame Pole	••	Above Ground Sanitary Sewer	
School	Existing Edge of Pavement	*********	Recorded U/G Power Line	P	Recorded SS Forced Main Line	
Church	Existing Curb —————		Designated U/G Power Line (S.U.E.*)			
Dam —	Proposed Slope Stakes Cut	<u>c</u>			Designated SS Forced Main Line (S.U.E.*) –	FSS
HYDROLOGY:	Proposed Slope Stakes Fill		TELEPHONE:			
Stream or Body of Water ————————————————————————————————————	Proposed Curb Ramp		Existing Telephone Pole ————		MISCELLANEOUS:	
Hydro, Pool or Reservoir	Existing Metal Guardrail	(CR)	Proposed Telephone Pole —	-0-	Utility Pole	
			Telephone Manhole	•	Utility Pole with Base	
Jurisdictional Stream	Proposed Guardrail ——————		Telephone Booth ———————————————————————————————————	ា	Utility Located Object —	
Buffer Zone 1 ———————————————————————————————————	Existing Cable Colderan		Telephone Pedestal ———————	m	Utility Traffic Signal Box —————	- (S)
Flow Arrow	Troposed Cable Colderall		Telephone Cell Tower —————		Utility Unknown U/G Line	
Disappearing Stream ————————————————————————————————————	Equality Symbol	•	U/G Telephone Cable Hand Hole ————		U/G Tank; Water, Gas, Oil —————	- []
	Pavement Removal	$\boxtimes\!\!\boxtimes\!\!\boxtimes\!\!\boxtimes$			Underground Storage Tank, Approx. Loc. —	— (UST)
Spring — O	VEGETATION:		Recorded U/G Telephone Cable		A/G Tank; Water, Gas, Oil	_ [
Wetland ±	Single Tree	£	Designated U/G Telephone Cable (S.U.E.*)—		Geoenvironmental Boring	L
Proposed Lateral, Tail, Head Ditch	Single Shrub	٥	Recorded U/G Telephone Conduit		U/G Test Hole (S.U.E.*)	_
False Sump ———	rieuge		Designated U/G Telephone Conduit (S.U.E.*)		Abandoned According to Utility Records —	
	Woods Line	~!!~!!~!!~!!~!!~	Recorded U/G Fiber Optics Cable		End of Information ———————	
			Designated U/G Fiber Optics Cable (S.U.E.*)	fo		<u></u>

