

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI SECRETARY

April 4, 2011

U.S. Army Corps of Engineers Regulatory Field Office PO Box 1000 Washington, NC 27889-1000

Attention:

Thomas Steffens

NCDOT Coordinator

Dear Sir:

Subject:

Application for Section 404 General Permit 198200031, Section 401 Water Quality Certification, and Neuse Riparian Buffer Authorization for the proposed replacement of Bridges Nos. 35 & 36 over Little Contentnea Creek on SR 1343, Pitt & Greene Counties. TIP No. B-4531; Federal Aid Project No. BRZ-1343(1); Debit \$240.00 from WBS 33751.1.1.

Please find enclosed the PCN form, stormwater management plan, permit drawings, buffer drawings, and half-size plan sheets for the above referenced project. A Categorical Exclusion (CE) was completed for this project in February 2009, and distributed shortly thereafter. Additional copies will be made available upon request. The North Carolina Department of Transportation (NCDOT) proposes to replace existing Bridges Nos. 35 & 36 on SR 1343 over Little Contentnea Creek in Pitt & Greene Counties. The project involves replacement of the existing Bridge No. 35, an 86-foot bridge, with a 115-foot long bridge in approximately the same location and replacement of the existing Bridge No. 36, a 120-foot bridge, with a 170-foot long bridge in approximately the same location. There will be < 0.01 acre of permanent riparian wetland impacts due to construction of Bridge No. 35. In addition, there will be 6,701 sq. ft. of riparian buffer impacts due to construction of Bridge No. 36.

The let date for this project is January 17, 2012; however, the let date may advance as additional funds become available.

Regulatory approvals

Section 404 Permit: All aspects of this project are being processed by the Federal Highway Administration as a "Categorical Exclusion" in accordance with 23 CFR 771.115(b). The NCDOT requests that these activities be authorized by a General Permit No. 198200031.

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

WEBSITE: WWW.NCDOT.ORG

LOCATION:

1020 BIRCH RIDGE DRIVE RALEIGH NC 27610-4328 Section 401 Water Quality Certification: We anticipate 401 General Certification number 3820 will apply to this project. All general conditions of the Water Quality Certification will be met. NCDOT is providing five copies of this application to the NCDWQ for their review and approval. Authorization to debit the \$240 Permit Application Fee from WBS Element 33752.1.1 is hereby given.

Neuse Riparian Buffer Authorization: NCDOT requests that the NC Division of Water Quality review this application and issue a written approval for a Neuse Riparian Buffer Authorization.

A copy of this permit application and its distribution list will be posted on the NCDOT website at http://www.ncdot.org/doh/preconstruct/pe/neu/permit.html

Thank you for your assistance with this project. If you have any questions or need additional information, please contact Tyler Stanton at tstanton@ncdot.gov or (919) 707-6156.

Sincerely,

Gregory J. Thorpe, Ph.D. Environmental Management Director, PDEA

cc:

NCDOT Permit Application Standard Distribution List

NCDOT TIP B-4531 Page 2 of 2





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

	Pre-Construction Notification (PCN) Form						
A.	Applicant Information						
1.	Processing						
1a.	Type(s) of approval sought from t Corps:	he	Section 404 Permit	☐ Secti	on 10 Permit		
1b.	Specify Nationwide Permit (NWP)	number:	or General	Permit (GP)	number: 1982000	031	
1c.	Has the N WP or GP number bee	n verified b	y the Corps?		☐ Yes	⊠ No	
1d.	Type(s) of approval sought from t	the DWQ (check all that apply):				
		n – Regula	- □ Non-404	Jurisdictiona	al General Permi	t	
	☐ 401 Water Quality Certification	n – Expres	s ⊠ Riparıan	Buffer Autho	onzation		
1e.	Is this notification solely for the rebecause written approval is not re		For the record only for Certification:	DWQ 401	For the record of	only for Corps Permit:	
			☐ Yes	0	☐ Yes	⊠ No	
1f.	If. 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-lie fee program.				☐ Yes	⊠ No	
1g.	Is the project located in any of Nobelow.	C's twenty	coastal counties. If yes,	answer 1h	☐ Yes	⊠ No	
1h.	Is the project located within a NC	DCM Area	of Environmental Conc	ern (AEC)?	☐ Yes	⊠ No	
2.	Project Information						
2a.	Name of project:	Replacen	nent of Bridges 35 & 36	over Little Co	ontentnea Creek	on SR 1343	
2b.	County:	Pitt & Gre	ene				
2c.	Nearest municipality / town:	Farmville					
2d	Subdivision name:	not applic	able				
2e.	NCDOT only, T.I.P or state project no:	B-4531					
3.	Owner Information	-		· · · · · · · · · · · · · · · · · · ·			
3a	Name(s) on Recorded Deed:	North Ca	olina Department of Tra	nsportation			
	Deed Book and Page No.	not applic	able				
3c	Responsible Party (for LLC ı f applicable): not applicable						
3d	. Street address:	1598 Mai	Service Center				
<u> </u>	. City, state, zıp:	Raleigh,	NC 27699-1598				
3f.	Telephone no	(919) 212	-5757				
3g	. Fax no	(919) 212	-5785				
3h	h. Email address: tstanton@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, zıp:					
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, zıp:					
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: 35.523 (DD.DDDDI		Longitude: - 77.524767 (-DD.DDDDDD)		
1c.	Property size:	6.9 acres				
2.	Surface Waters					
2a.	Name of nearest body of water (stream, river, etc.) to proposed project:	Little Contentne	a Creek			
2b.	Water Quality Classification of nearest receiving water:	C; SW; NSW				
2c.	River basin:	Neuse				
3.	Project Description					
За.	a. Describe the existing conditions on the site and the general land use in the vicinity of the project at the time of this application: The primary natural communities found on the site are mesic mixed hardwood forest, coastal plain small stream swamp, and dry-mesic oak-hickory forest; the principal land uses in the project vicinity include timber, agriculture, and residential development.					
3b.	List the total estimated acreage of all existing wetlands on the 0.20	property:				
3c.	List the total estimated linear feet of all existing streams (interm 150	ittent and perenni	ial) on the pro	perty:		
3d.	Explain the purpose of the proposed project: To replace two structurally deficient and functionally obsolete by	oridges.				
	3e. Describe the overall project in detail, including the type of Bridge No. 35 (86-foot bridge with a 115-foot, 3-span bridge) a bridge) on the existing alignment with an off-site detour. Standdozers, and cranes will be used.	nd Bridge No. 36	(120-foot brid	ge with a 170-foot, 3 span		
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/Consultant Company: ESI Other:				
4d.	d. If yes, list the dates of the Corps jurisdictional determinations or State determinations and attach documentation. The JD for Bridge 36 was issued by William Wescott on May 9, 2006 and expires on May 9, 2011; The JD for Bridge 35 was issued by Emily Jernigan on November 14, 2008 and expires November 14, 2013					
5.	Project History					
	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 Impa	. Proposed Impacts Inventory						
1. Impacts Summary							
1a. Which sections were completed below for your project (check all that apply):							
Wetlands		Streams - tributaries	⊠ But	ffers			
☐ Open Waters	s □ F	ond Construction					
2. Wetland Impac	ts						
			 	ion for each wetland a			
2a. Wetland impact number – Permanent (P) or Temporary (T)	2b. Type of impact	2c. Type of wetland (if known)	2d. Forested	2e. Type of jurisdic (Corps - 404, DWQ – non-404,	ction 10	2f. Area of impact (acres)	
Site 1 🛛 P 🗌 T	Fill	Ripanan	⊠ Yes □ No	⊠ Corps □ DWQ		< 0.01	
Site 2 P T			☐ Yes ☐ No	☐ Corps ☐ DWQ			
Site 3 P T			☐ Yes ☐ No	☐ Corps ☐ DWQ			
Site 4 🔲 P 🔲 T			☐ Yes ☐ No	☐ Corps ☐ DWQ			
Site 5 P T			☐ Yes ☐ No	☐ Corps☐ DWQ			
				2g. Total wetlan	d impacts	< 0.01	
2h. Comments:							
3. Stream Impact		room imports (includ	ling tomporany w	mpacts) proposed on t	ha sita than	complete this	
question for all stream			iing temporary ii	inpacts) proposed on t	rie site, trierr	complete triis	
3a. Stream impact number - Permanent (P) or Temporary (T)	3b. Type of impact	3c. Stream name	3d. Perennial (PER) or intermittent (INT)?	3e. Type of jurisdiction (Corps - 404, 10 DWQ - non-404, other)	3f. Average stream width (feet)	3g. Impact length (linear feet)	
Site 1 D P T			☐ PER ☐ INT	☐ Corps ☐ DWQ			
Site 2 P T			☐ PER ☐ INT	☐ Corps ☐ DWQ			
Site 3 P T			☐ PER ☐ INT	☐ Corps ☐ DWQ			
Site 4 P T			☐ PER ☐ INT	☐ Corps ☐ DWQ			
Site 5 P T			PER INT	☐ Corps ☐ DWQ			
Site 6 P T			☐ PER ☐ INT	☐ Corps ☐ DWQ			
			3h. 1	Fotal stream and tribu	utary impact	s 0 Perm 0 Temp	
3i. Comments: I							

4. Open	Water Im	pacts								
	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.	4a. 4b. 4c.						4d.		4e.	
Open water Name of										
impact nur		waterbody		Type	of impact		Waterbody	y type	Area of Im	pact (acres)
Permanen		(if applicable)								
Temporary (T) O1 P T										
····	<u> </u>									
03 🗆 P	T									
04 🗌 P										
	4f. Total open water impacts 0 Permanent 0 Temporary									
4g. Comm	ents:		-							
5. Pond	or Lake	Construction								
If pond or	lake cons	truction proposed,	then com	plete	the chart b	elow.				
5a.	5b.		5c.				5d.			5e.
Pond ID		posed use or	We	tland	Impacts (a	cres)				Upland (acres)
number	pur	pose of pond	Flood	ed	Filled	Excavat ed	Flooded	Filled	Excavated	Flooded
P1										
P2										
	<u> </u>	5f. Total								
5g. Comm	nents:		<u></u>			<u> </u>	<u> </u>	<u> </u>	<u> </u>	L
5h. Is a dam high hazard permit required?				ΠY	es	□ No	If yes, perr	mit ID no	•	
5i. Expected pond surface area (acres):										
5j. Size of pond watershed (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 p	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	Little Contentnea	☐ Yes ☑ No	3,918	2,783						
B2 □ P □ T			☐ Yes ☐ No								
ВЗ □Р□Т			☐ Yes ☐ No								
6h. Total buffer impacts 3,918 2,783											
6i. Comments:				6i. Comments:							

D.	Impact Justification and Mitigation					
1.						
1a.	a. Specifically describe measures taken to avoid or minimize the proposed impacts in designing project.					
	The proposed bridges are 29 feet (Bridge 35) & 50 feet (Bridge 36) longer than the existing bridges; the proposed bridges will be at approximately the same grades as the existing structures; the utilization of an off-site detour; the implementation of Design Standards in Sensitive Watersheds.					
1b.	Specifically describe measures taken to avoid or minimize to	he proposed impacts t	hrough construction techniques.			
	NCDOT Best Management Practices for Bridge Demolition, Removal and Construction will be followed, as well as those for Sedimentation and Erosion Control; adherence to an in-water work moratorium for anadromous fish from Feb. 15 to June 15; no deck drains allowed over stream; and installation of grass swale treatment outside of Buffer Zone 2.					
2.	Compensatory Mitigation for Impacts to Waters of the L	J.S. or Waters of the	State			
20	Door the project require Components, Mitigation for	☐ Yes No				
Za.	2a. Does the project require Compensatory Mitigation for impacts to Waters of the U.S. or Waters of the State? If no, explain: Due to the minimal impacts to Waters of the U.S., no compensatory mitigation is proposed.					
2b	2b. If yes, mitigation is required by (check all that apply):					
		☐ Mitigation bank				
2c.	. If yes, which mitigat ion option will be used for this project?	☐ Payment to in-lieu fee program				
	project:	☐ 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 ın-lieu fee program ıs attached.	☐ Yes				
4b	. Stream mitigation requested:	linear feet				
40	e. If using stream mitigation, stream temperature:	☐ warm ☐ co	ool			
40	I. Buffer mitigation requested (DWQ only):	square feet				
46	e. Riparıan wetland mitigation requested:	acres				
4f	Non-riparian wetland mitigation requested:	acres				
40	g. Coastal (tidal) wetland mitigation requested:	acres				
4r	n. Comments:					
5.	Complete if Using a Permittee Responsible Mitigation I	Plan				
58	5a. If using a permittee responsible mitigation plan, provide a description of the proposed mitigation plan.					

6. Buffer Mitigation (State Regulated Riparian Buffer Rules) – required by DWQ								
6a. Will the project result in an impact within a protected riparian buffer that requires □ 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.								
Zone	6c. Reason for impact	6d. Total impact (square feet)	Multiplier	6e. Required mitigation (square feet)				
Zone 1			3 (2 for Catawba)					
Zone 2			1.5					
		6f. Total buffer	r 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. Comm	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: see attached		⊠ 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						
2e	. Who will be responsible for the review of the Stormwater Management Plan?			cal Government nwater Program Jnit			
3.	B. 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 Sup ☐ Other:	oly Watershed			
3с	. Has the approved Stormwater Management Plan with proof of approval been attached?		☐ Yes	□ No			
4.	DWQ Stormwater Program Review						
48	Which of the following state-implemented stormwater management programs ap (check all that apply):	pply	Coastal co HQW ORW Session L Other:	ounties aw 2006-246			
4k	D. Has the approved Stormwater Management Plan with proof of approval been attached?		☐ Yes	□No			
5.	DWQ 401 Unit Stormwater Review						
56	a. Does the Stormwater Management Plan meet the appropriate requirements? N	I/A	☐ Yes	□No			
51	b. Have all of the 401 Unit submittal requirements been met?	I/A	☐ Yes	□No			

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.)	⊠ 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.	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 disch 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 compacts?	ncerning Endangered Species Act	⊠ Yes	□ No			
5c.	If yes, ınd ıcate the USFWS Field Office	you have contacted.	☑ Raleigh☐ Asheville				
5d.	. What data sources did you use to determine whether your site would impact Endangered Species or Designated Critical Habitat?						
	NHP, USFWS, NCDOT field surveys						
6.	s. Essential Fish Habitat (Corps Requirement)						
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	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 ☐ Yes ☐ Yes						
7b	. What data sources did you use to dete	ermine whether your site would impact h	storic or archeological re	esources?			
	NEPA Documentation						
8.	Flood Zone Designation (Corps Requ	irement)					
8a	. Will this project occur in a FEMA-desig	nated 100-year floodplain?	⊠ Yes [□No			
8b	8b. If yes, explain how project meets FEMA requirements: NCDOT Hydraulics Unit coordination with FEMA						
80	8c. What source(s) did you use to make the floodplain determination? FEMA Flood 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.)							



STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE GOVERNOR EUGENE A. CONTI, JR. SECRETARY

October 15, 2010

MEMORANDUM TO File

FROM: Paul F Fisher, P.E.

Hydraulics Unit

SUBJECT Stormwater Management Plan

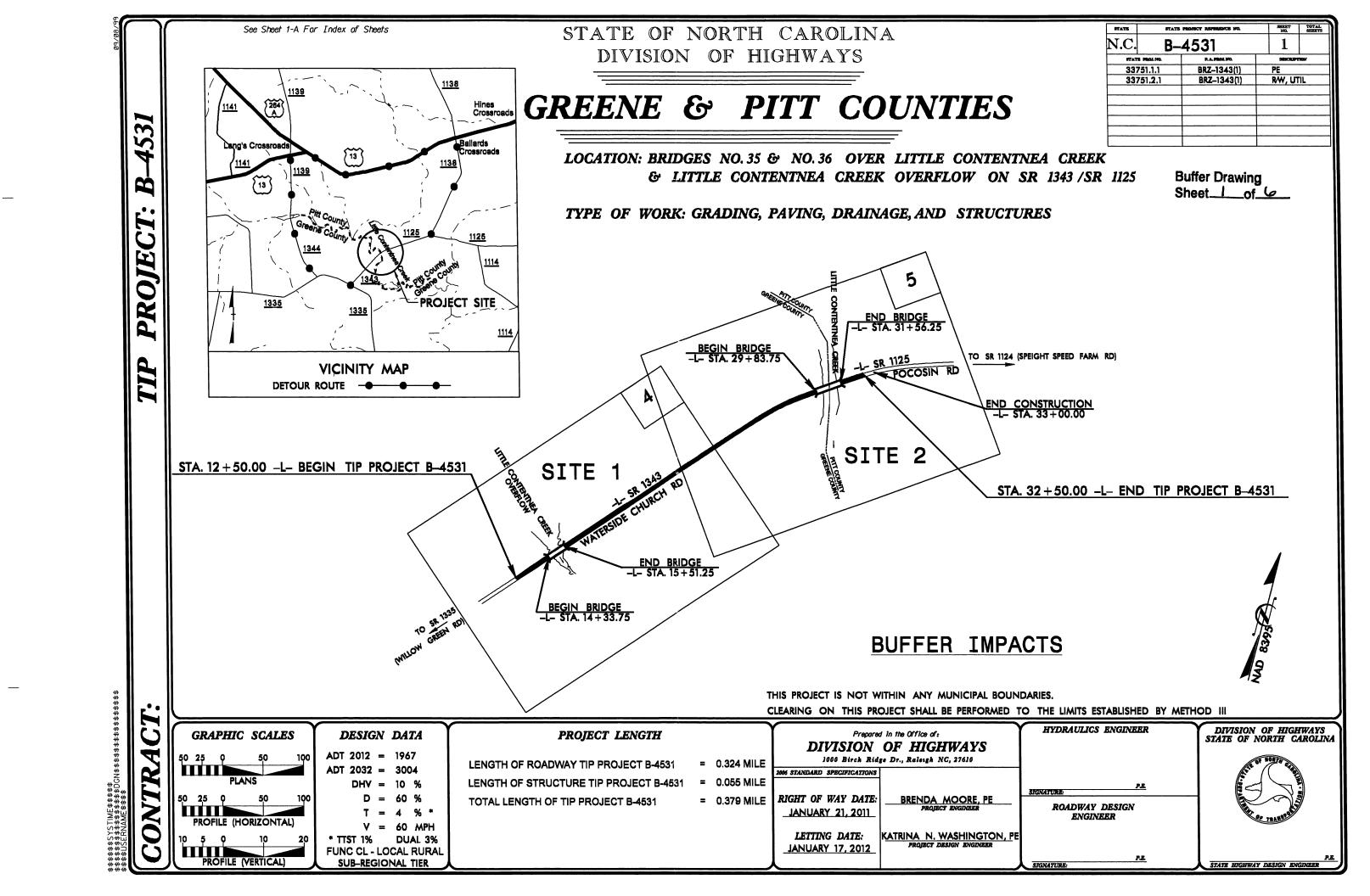
B-4531, Greene/Pitt Counties

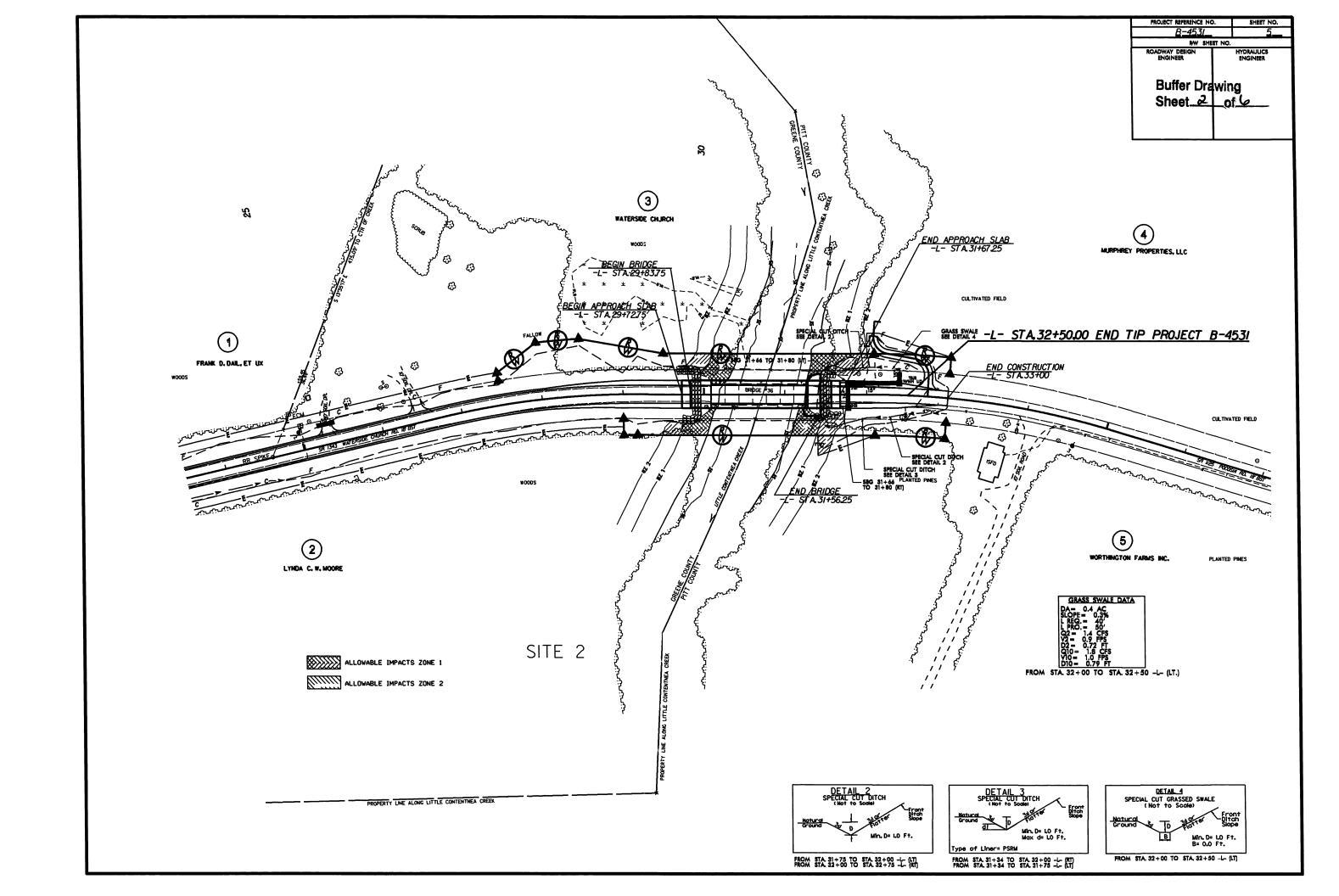
The following items were incorporated into the Hydraulic design of this project for stormwater quality considerations:

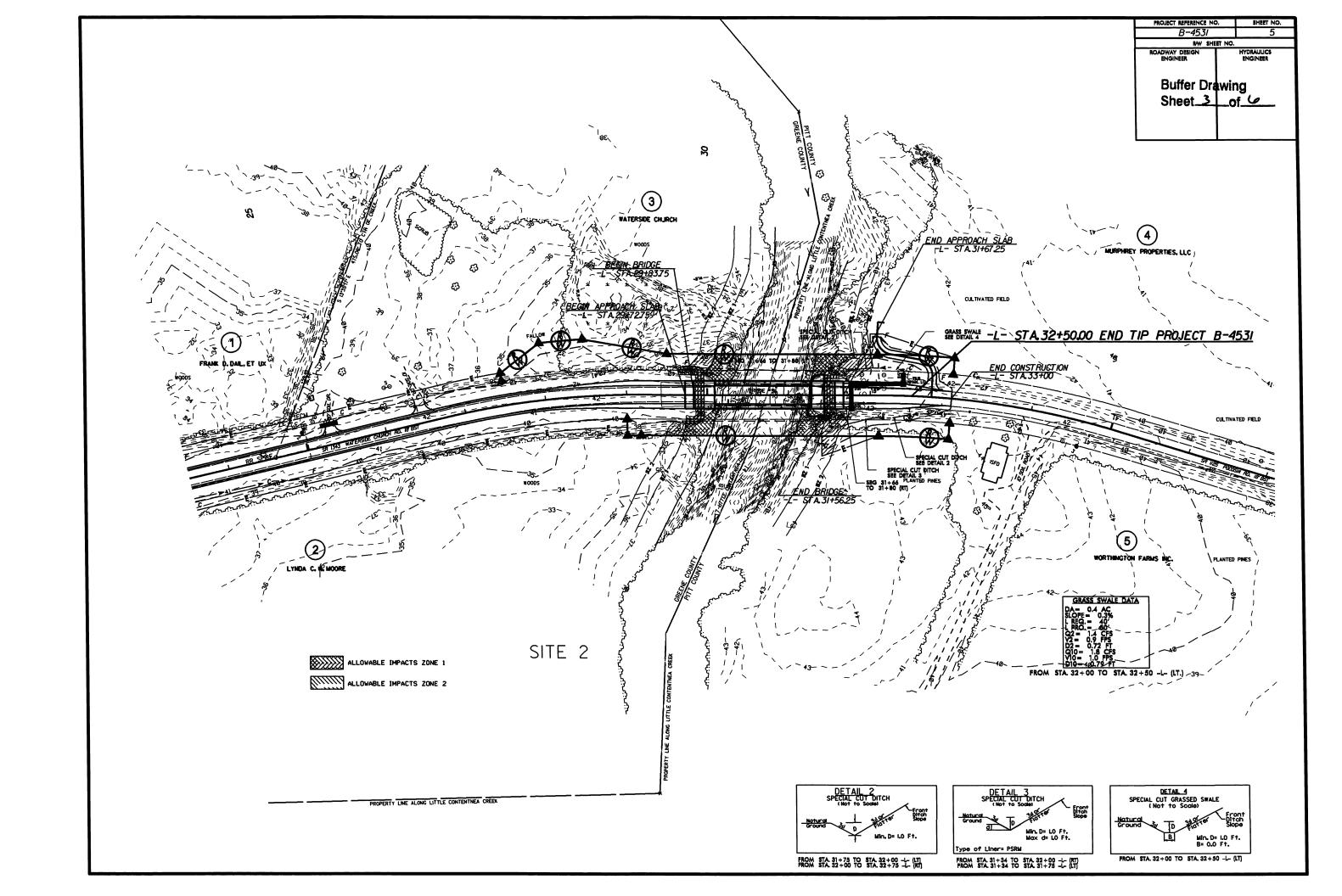
-Deck Drains allowed only over rip rapped abutments.

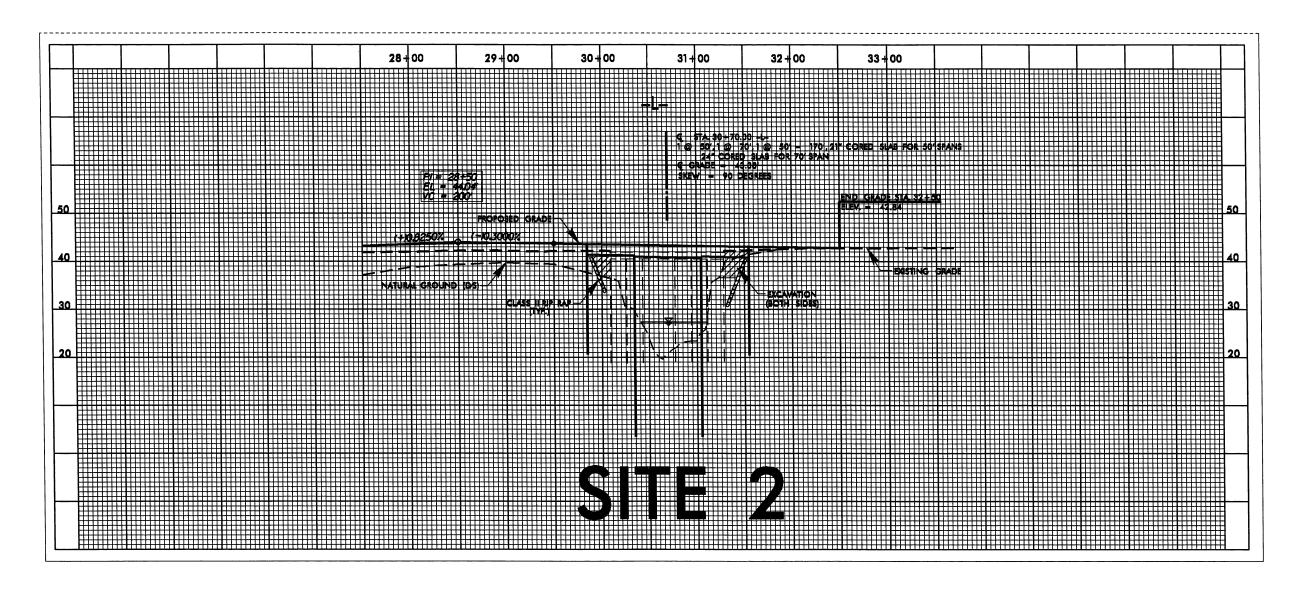
-Grass Swale treatment outside Buffer Zone 2.

PFF



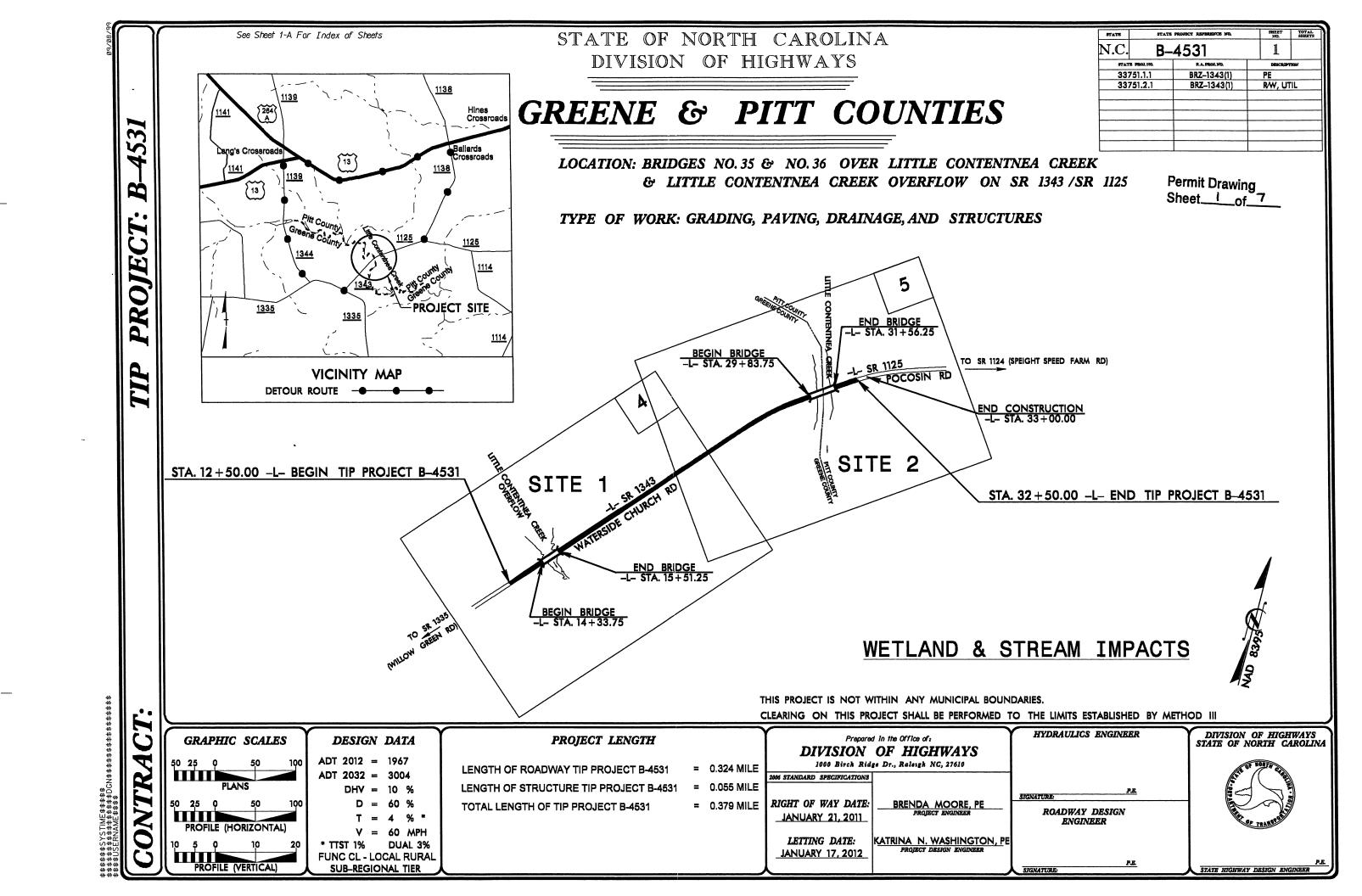


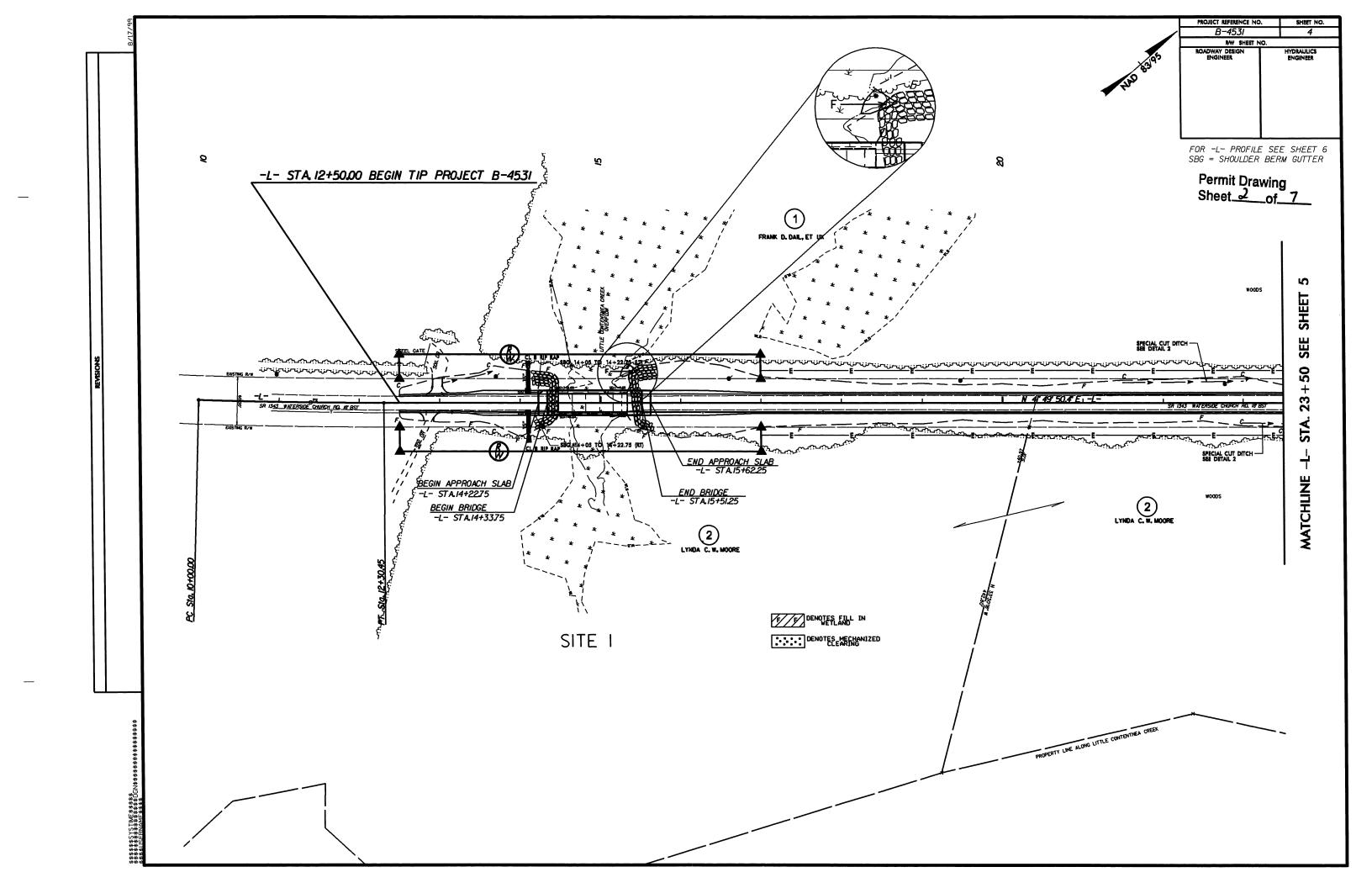


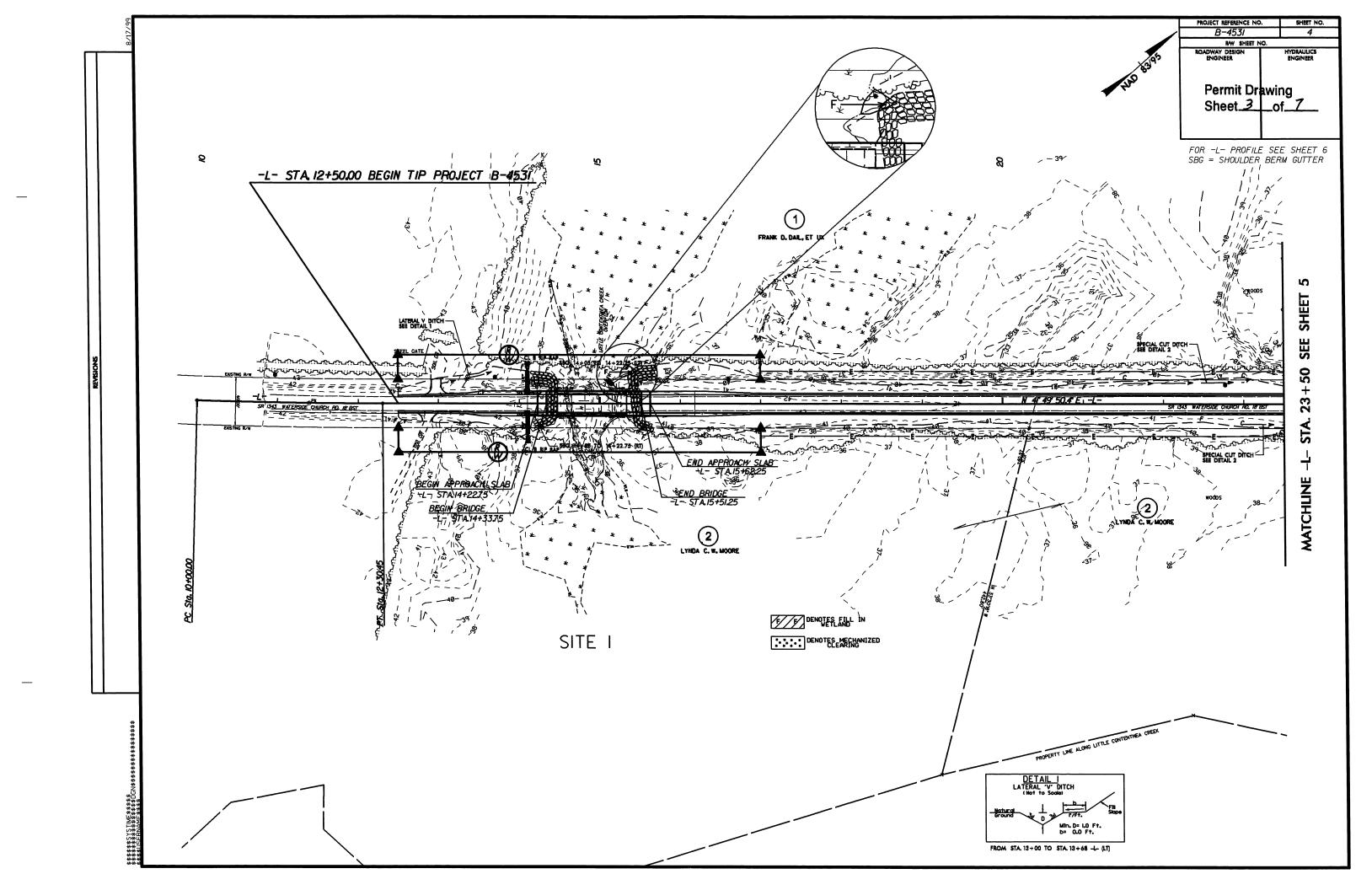


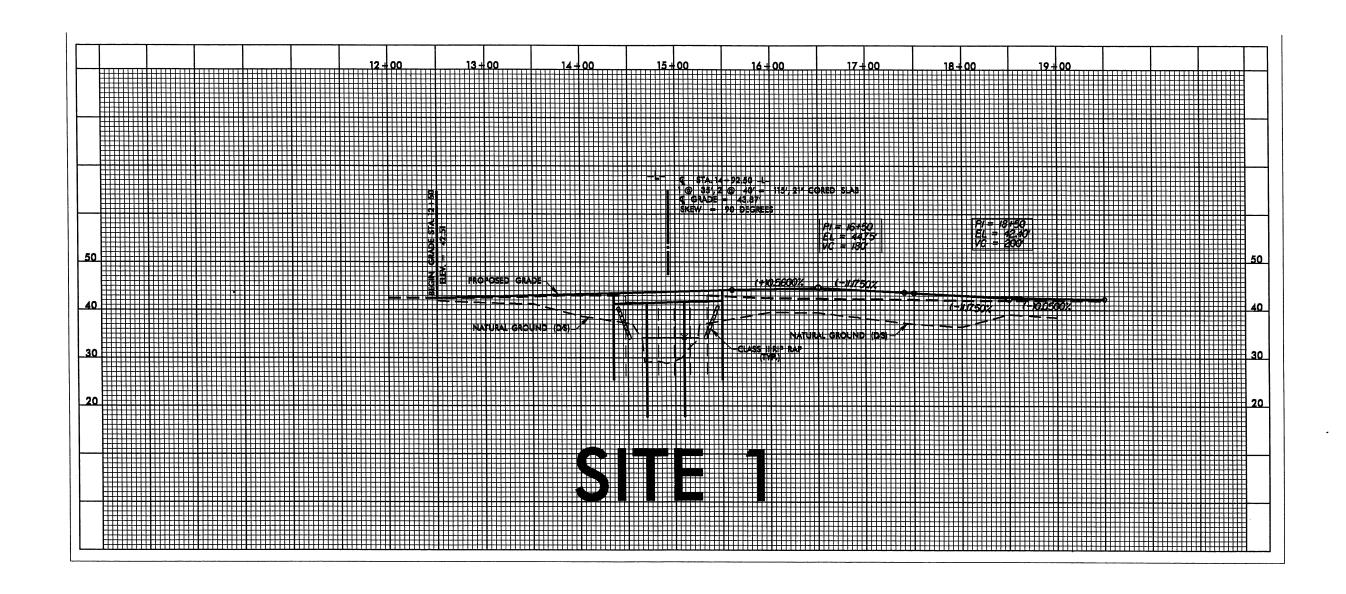
	BUFFER	REPLACEMENT	ZONE 1 ZONE 2 (ff²) (ff²)													N.C. DEPT OF TRANSPORTATION DIVISION OF HIGHWAYS	Octivity to C Herry	GREENE & PHI COUNTES WBS - 33751 1 (B-4531)	2/14/2011 SHEET OF	Rev May 2006
		빌	TOTAL (ff ²)													N C DEPT O		GREENE & FILL WBS - 33751 1 1	2 SHEET	
		MITIGABLE	ZONE 2 (ff ²)																	
			ZONE 1 (ft²)															9		
≿		щ	TOTAL (ff²)		6701										6701			Drawing 5 of		
MMAF	IMPACT	ALLOWABLE	ZONE 2 (ff²)		2783										2783			Sheet 5 of		
BUFFER IMPACTS SUMMARY	≧	A	ZONE 1 (ff²)		3918										3918		C	® Ø		
IMPAC			PARALLEL IMPACT																	
IFFER		TYPE	BRIDGE		×															
B			ROAD																	
<u>-</u>		STATION (FROM/TO)		30+69 -L-																
			STRUCTURE SIZE / TYPE	1	BRIDGE															
			CN HE	SIE NO.	2										TOTALS:					

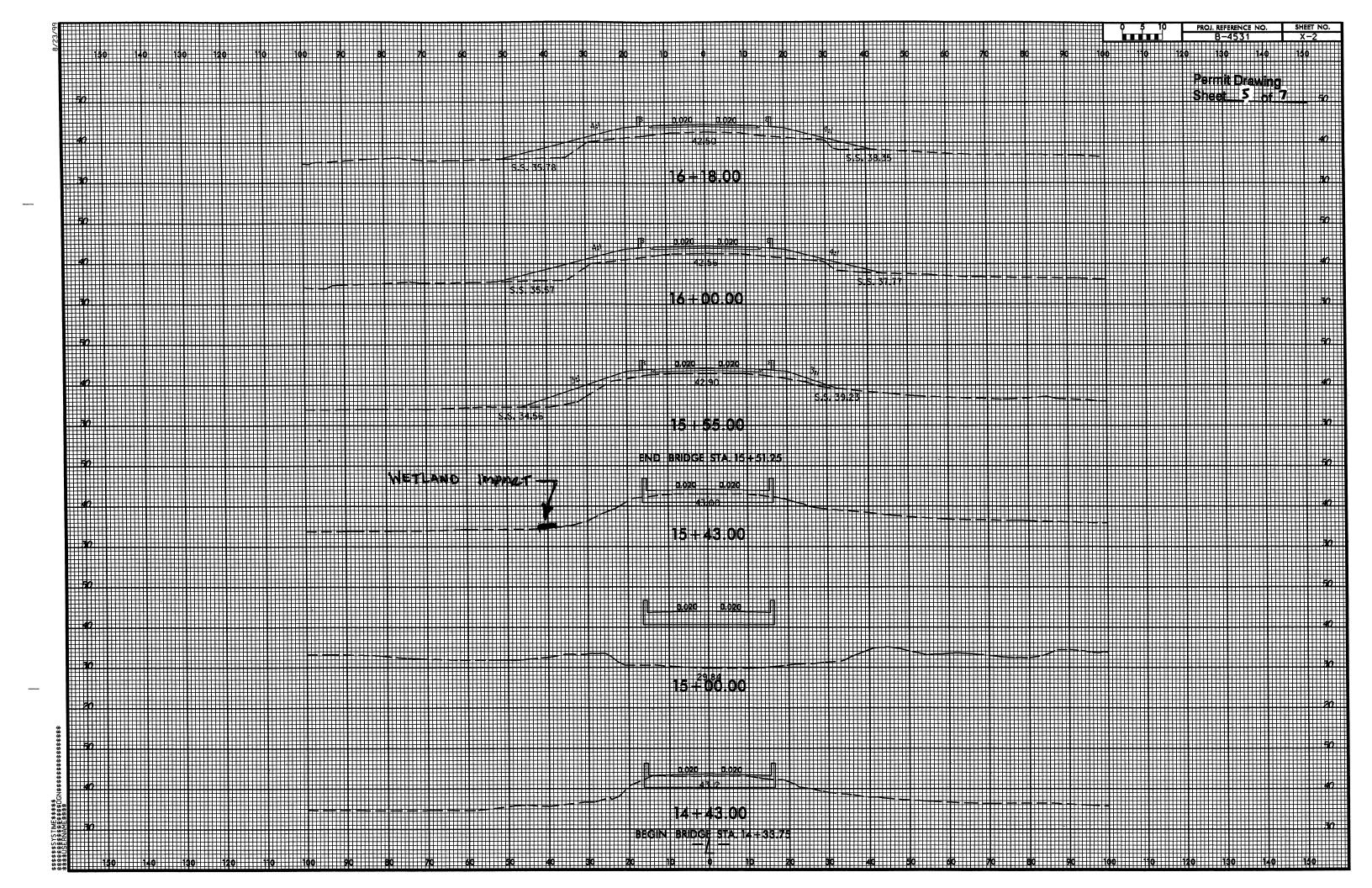
	Prop	Property Owner Contact Report	ontact Report		
Parcel #	Parcel # Owner Last Name/Business	First Name	Address	State	State Zip Code
က	Waterside Church		1331 Forlines Rd.	S	28590
-	Dail	Frank D.	6088 US Hwy. 13	S	27828
8	Moore	Lynda C. W.	PO Box 295	S	27828
4	Murphey Properties, LLC		4475 Ayden Golf Club Rd.	S	28513
2	Worthington Farms, Inc.		3661 Ballards Crossroad Rd.	S	27834











	Pro	Property Owner Contact Report	ontact Report		
Parcel #	Parcel # Owner Last Name/Business	First Name	Address	State	State Zip Code
က	Waterside Church		1331 Forlines Rd.	S	28590
-	Dail	Frank D.	6088 US Hwy. 13	S	27828
8	Moore	Lynda C. W.	PO Box 295	2	27828
4	Murphey Properties, LLC		4475 Ayden Golf Club Rd.	2	28513
2	Worthington Farms, Inc.		3661 Ballards Crossroad Rd.	S	27834

Permit Drawing Sheet 6 of 7

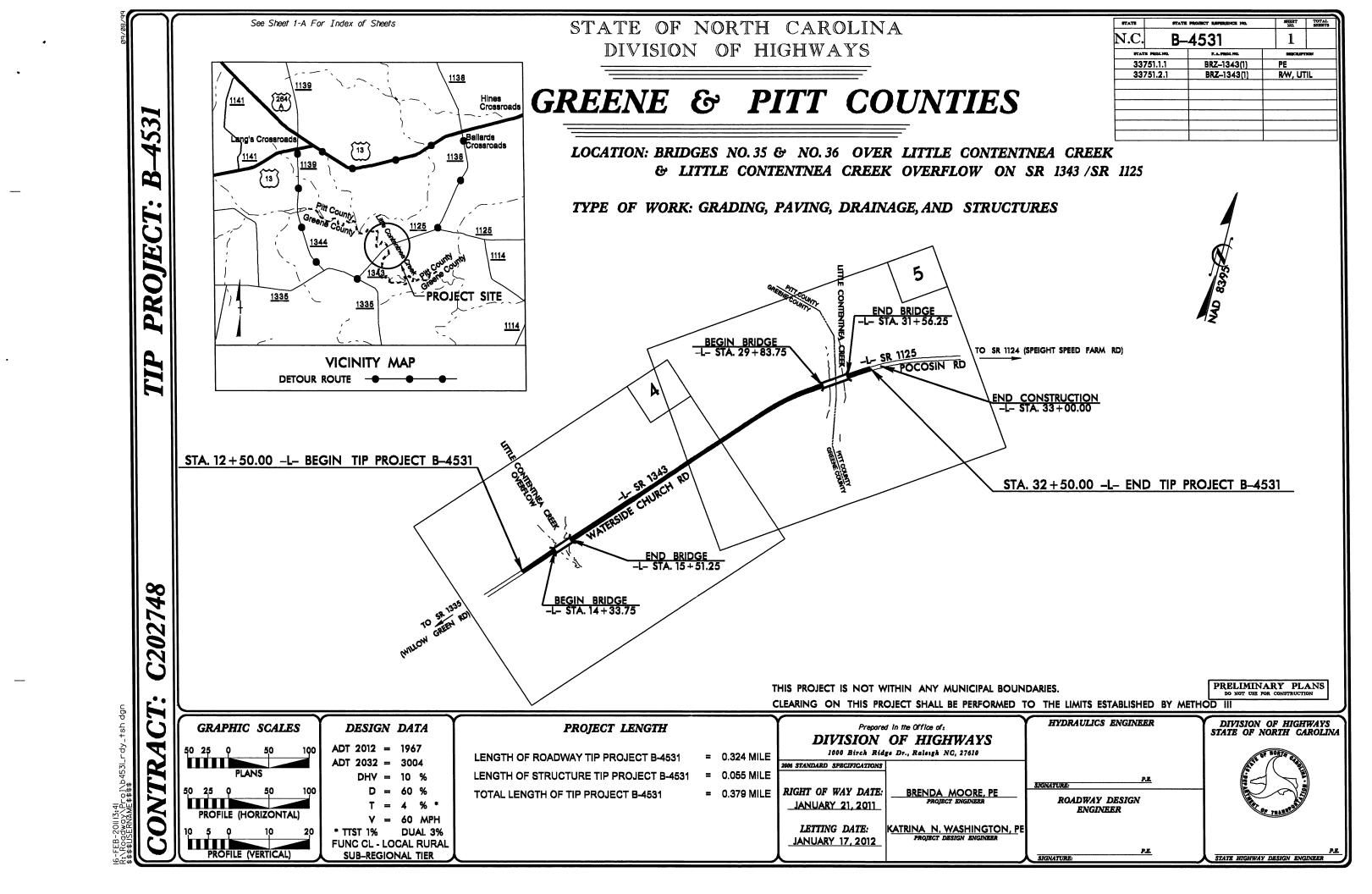
	_					 		 	 							
		Natural	Stream Design	Œ												
OTO VOI	PACIS	Existing Channel	<u>⊨</u> ⊢	€												
	SURFACE WATER IMPACTS	Existing	Impacts Permanent	(¥)												
ARY	SURFAC		.⊑	(ac)												
ACT SUMM		Permanent	SW impacts	(ac)												
RMIT IMP		Hand Clearing	in Wetlands	(ac)												
WETLAND PERMIT IMPACT SUMMARY	crs	Mechanized	in Clearing Wetlands in Wetlands	(ac)	<0.01											<0.01
M	LAND IMPA	Excavation	in Wetlands	(ac)												
	WET	Temp	_ sp	(ac)												
		Permanent	Fill In Wetlands	(ac)	<0.01											<0.01
			Structure Size / Type		Bridge											
			Station (From/To)		Sta. 14+93 -L-											
			Site		-											TOTALS

NC DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

GREENE & PITT COUNTIES WBS - 33751 1 1 (B-4531) 2/7/2011

Permit Drawing Sheet 7 of 7

ATN Revised 3/31/05



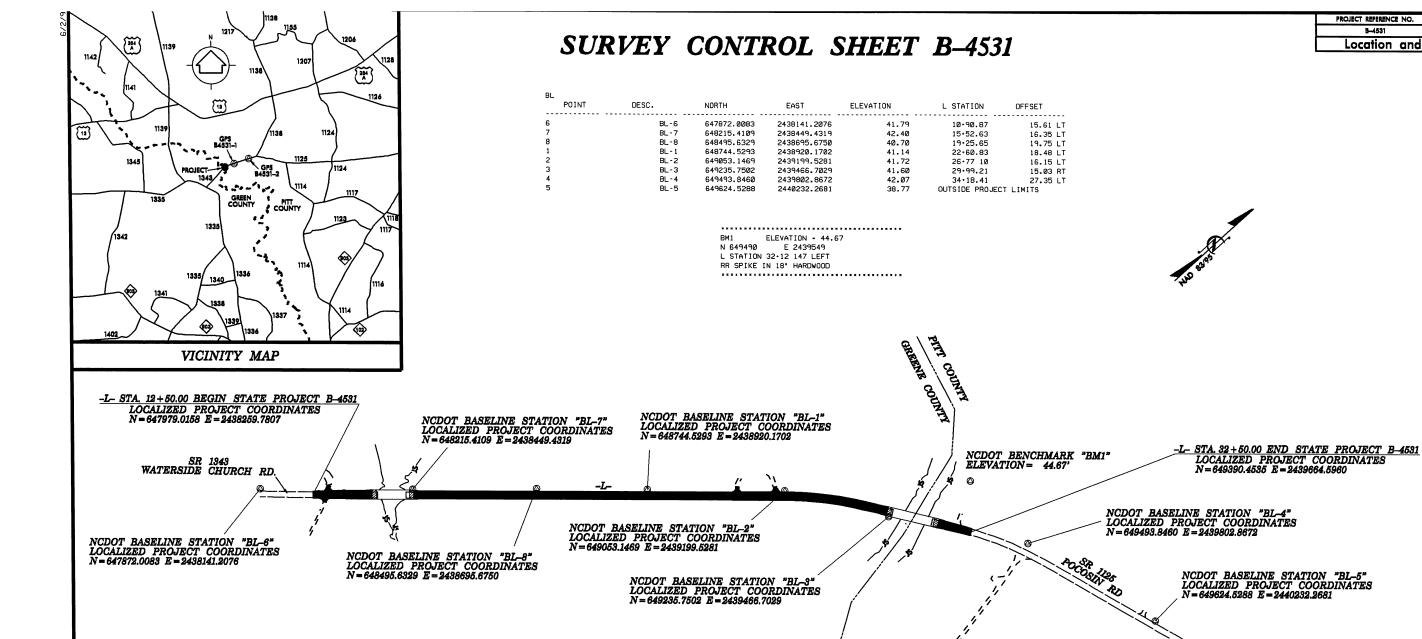
*S.U.E. = Subsurface Utility Engineering

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

PROJECT REPERENCE NO. SHEET NO. B-4531 I-B

CONVENTIONAL PLAN SHEET SYMBOLS

						WAIEN:	
BOUNDARIES AND PROPERTY:		RAILROADS:				Water Manhole	W
tate Line		Standard Gauge	CSX TRANSPORTATION			Water Meter	0
County Line		RR Signal Milepost	O MILEPOST 35			Water Valve	
ownship Line		Switch		EXISTING STRUCTURES:		Water Hydrant	
City Line		RR Abandoned	SWITCH	MAJOR:		Recorded U/G Water Line	***************************************
eservation Line		RR Dismantled		Bridge, Tunnel or Box Culvert [CONC	Designated U/G Water Line (S.U.E.*)	
roperty Line		RIGHT OF WAY:		Bridge Wing Wall, Head Wall and End Wall -) conc ww (Above Ground Water Line	A/G Water
xisting Iron Pin		Baseline Control Point	A	MINOR:			
roperty Corner		Existing Right of Way Marker	V	Head and End Wall	CONC HW	TV:	
		Existing Right of Way Line	Δ	Pipe Culvert		TV Satellite Dish	K
roperty Monument				Footbridge>		TV Pedestal	
arcel/Sequence Number		Proposed Right of Way Line		Drainage Box: Catch Basin, DI or JB		TV Tower	
xisting Fence Line		Proposed Right of Way Line with Iron Pin and Cap Marker		Paved Ditch Gutter		U/G TV Cable Hand Hole	_
roposed Woven Wire Fence		Proposed Right of Way Line with		Storm Sewer Manhole		Recorded U/G TV Cable ————————————————————————————————————	
Proposed Chain Link Fence		Concrete or Granite Marker		Storm Sewer ———————————————————————————————————		Designated U/G TV Cable (S.U.E.*)	
Proposed Barbed Wire Fence		Existing Control of Access	{}		-	Recorded U/G Fiber Optic Cable	
ixisting Wetland Boundary		Proposed Control of Access		UTILITIES:			
Proposed Wetland Boundary		Existing Easement Line	——E——	POWER:		Designated U/G Fiber Optic Cable (S.U.E.*)—	TV F0
xisting Endangered Animal Boundary	EAB	Proposed Temporary Construction Easement –	——-E-—		1		
xisting Endangered Plant Boundary ———		Proposed Temporary Drainage Easement	TDE	Existing Power Pole	•	GAS:	
BUILDINGS AND OTHER CULT	TIRE.	Proposed Permanent Drainage Easement ——	PDE	Proposed Power Pole	=	Gas Valve	
ias Pump Vent or U/G Tank Cap		Proposed Permanent Drainage / Utility Easeme		Existing Joint Use Pole		Gas Meter	•
ign ————————————————————————————————————		Proposed Permanent Utility Easement ———		Proposed Joint Use Pole		Recorded U/G Gas Line	
Vell		Proposed Temporary Utility Easement ———		Power Manhole ————————————————————————————————————		Designated U/G Gas Line (S.U.E.*)	
imall Mine		Proposed Permanent Easement with		Power Line Tower	\boxtimes	Above Ground Gas Line -	A/G Gda
omail Mine		Iron Pin and Cap Marker	③	Power Transformer			
		ROADS AND RELATED FEATUR		U/G Power Cable Hand Hole	F	SANITARY SEWER:	
Area Outline ————————————————————————————————————		Existing Edge of Pavement		H-Frame Pole	••	Sanitary Sewer Manhole	•
Cemetery		Existing Curb		Recorded U/G Power Line	P	Sanitary Sewer Cleanout	•
Building		Proposed Slope Stakes Cut	c	Designated U/G Power Line (S.U.E.*)		U/G Sanitary Sewer Line —————	ss
School	- <u>-</u>	Proposed Slope Stakes Fill	<u>F</u>			Above Ground Sanitary Sewer	A/G Sanitary Sew
Church ————————————————————————————————————	— 	Proposed Wheel Chair Ramp		TELEPHONE:		Recorded SS Forced Main Line	FSS
Dam		Existing Metal Guardrail		Existing Telephone Pole		Designated SS Forced Main Line (S.U.E.*) —	— — — FS5 — —
HYDROLOGY:		Proposed Guardrail		Proposed Telephone Pole	- 0-	,	
Stream or Body of Water ————————————————————————————————————		Existing Cable Guiderail		Telephone Manhole	_	MISCELLANEOUS:	
Hydro, Pool or Reservoir		Proposed Cable Guiderail		Telephone Booth		Utility Pole	•
		Equality Symbol	•	Telephone Pedestal		Utility Pole with Base	□
Iurisdictional StreamBuffer Zone 1		Pavement Removal		Telephone Cell Tower		Utility Located Object	
Buffer Zone 2		VEGETATION:				Utility Traffic Signal Box	⊍
Flow Arrow		Single Tree	_ ^	U/G Telephone Cable Hand Hole ————		Utility Unknown U/G Line	S
Disappearing Stream ————————————————————————————————————		Single Shrub		Recorded U/G Telephone Cable			
SpringSpring stream				Designated U/G Telephone Cable (S.U.E.*)—		U/G Tank; Water, Gas, Oil	
Spring ————————————————————————————————————		Hedge		Recorded U/G Telephone Conduit		A/G Tank; Water, Gas, Oil ———————	
	-	Woods Line		Designated U/G Telephone Conduit (S.U.E.*)		U/G Test Hole (S.U.E.*)	
Proposed Lateral, Tail, Head Ditch	← Fall	Orchard		Recorded U/G Fiber Optics Cable ————		Abandoned According to Utility Records ——	AATUR
False Sump —————	- ◆	Vineyard ————————————————————————————————————	- Vineyard	Designated U/G Fiber Optics Cable (S.U.E.*)	T FO	End of Information —————————	E.O.I.



1. THE CONTROL DATA FOR THIS PROJECT CAN BE FOUND ELECTRONICALLY BY SELECTING PROJECT CONTROL DATA AT: HTTP://WWW.NCDOT.ORG/DOH/PRECONSTRUCT/HIGHWAY/LOCATION/PROJECT/

THE FILES TO BE FOUND ARE AS FOLLOWS: b4531_ls_control_090204.txt

NOTES:

SITE CALIBRATION INFORMATION HAS NOT BEEN PROVIDED FOR THIS PROJECT. IF FURTHER INFORMATION IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

PROJECT REFERENCE NO.

Location and Surveys

NCDOT GPS STATION "B4531-1" NC STATE PLANE GRID COORDINATES N=649720.9480 E=2440620.4830

B-4531

SHEET NO.

1-4

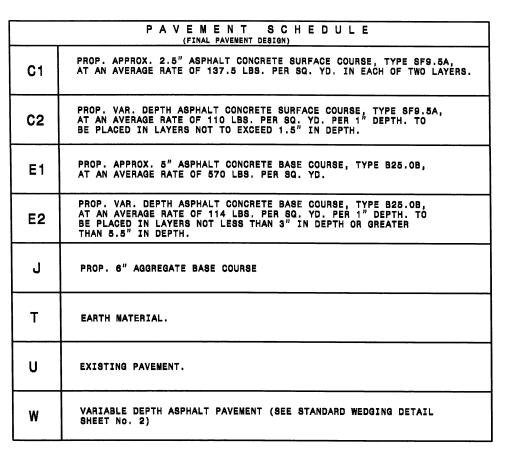
© INDICATES GEODETIC CONTROL MONUMENTS USED OR SET FOR HORIZONTAL PROJECT CONTROL BY THE NCDOT LOCATION AND SURVEYS UNIT. PROJECT CONTROL ESTABLISHED USING GLOBAL POSITIONING SYSTEM.

NETWORK ESTABLISHED FROM NGS ONLINE POSITIONING SERVICE (OPUS)

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "GPS B4531-1" WITH NAD 83/95 STATE PLANE GRID COORDINATES OF NORTHING: 649720.948(ft) EASTING: 2440620.483(ft) ELEVATION: 39.15(ft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999887750 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "GPS B4531-1" TO -L- STATION 12+50.00 IS S 53*34'36.7" W 2933.810(ft) ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

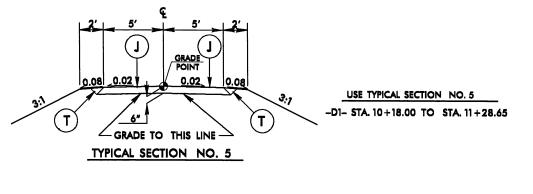
NOTE: DRAWING NOT TO SCALE

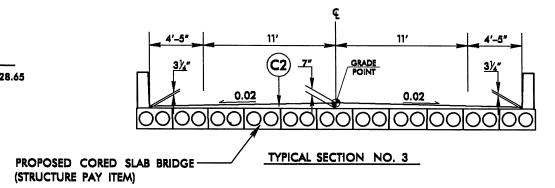


9' W/GR 9' W/GR (C1) (\mathbf{w}) (C1)(C1)USE TYPICAL SECTION NO. 1 P.S. P.S. -L- STA. 18+00.00 TO STA. 27+00.00 0.02 0.02 (E1) GRADE TO THIS LINE TYPICAL SECTION NO. 1 USE TYPICAL SECTION NO. 2 VAR. 9' TO 11' VAR. 9' TO 11' 9' W/GR 9' W/GR (C1) (C1)

-L- STA. 12+50.00 TO STA. 14+33.75 (BEGIN BRIDGE) -L- STA. 15+51.25 (END BRIDGE) TO STA. 18+00.00 -L- STA. 27+00.00 TO STA. 29+83.75 (BEGIN BRIDGE) -L- STA. 31+56.25 (END BRIDGE) TO STA. 32+50.00 2' P.S. P.S. NOTE: RESURFACING ONLY FROM -L- STA. 32+50.00 TO STA. 33+00.00 0.02 0.02 GRADE TO THIS LINE TYPICAL SECTION NO. 2

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

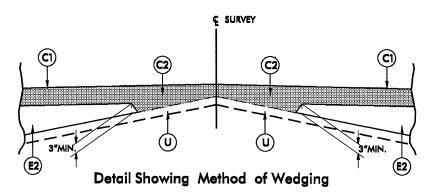


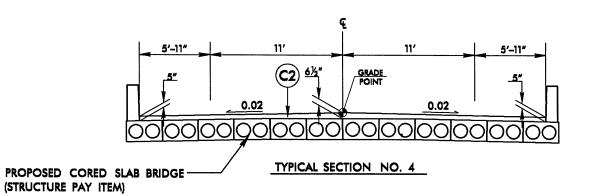


USE TYPICAL SECTION NO. 3 -L- STA. 14+33.75 TO STA. 15+51.25

PROJECT REFERENCE NO. B-453/ OADWAY DESIGN

PROBLEMIATA (O' PETANG





USE TYPICAL SECTION NO. 4 -L- STA. 29 + 83.75 TO STA. 31 + 56.25

