

## STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

PAT L. MCCRORY
GOVERNOR

ANTHONY J. TATA
SECRETARY

January 31, 2014

Wilmington Regulatory Field Office US Army Corps of Engineers 69 Darlington Avenue Wilmington, North Carolina 28403

ATTN: Ms. Liz Hair

**NCDOT** Coordinator

Dear Madam:

Subject: Application for a Section 404 Nationwide Permit 23 and Section 401 Water

Quality Certification for the proposed replacement of Bridge No. 17 over Lake

Creek on NC 210 in Bladen Co. TIP No. B-5117; Federal Aid Project No.

BRSTP-0210 (19); Debit \$240 from WBS No. 42258.1.1

The North Carolina Department of Transportation (NCDOT) proposes to replace the 69-foot, 4-span Bridge No. 4 with a 105-foot, 3-span bridge on a new alignment east of the existing. Traffic will remain on-site during construction. Permanent impacts to jurisdictional resources include 0.15 acre of wetland fill, 0.06 acre of excavation, and 48 feet of stream impacts (36 feet due to pipe installation and 12 feet of bank stabilization).

Please see enclosed copies of the Pre-Construction Notification (PCN), Preliminary Jurisdictional Determination Form, EEP Acceptance Letter, permit drawings, stormwater management plan, and roadway plans for the above referenced project. The Categorical Exclusion (CE) was completed in February 2012 and distributed shortly thereafter.

This project calls for a letting date of August 19, 2014 and a review date of July 1, 2014. The project schedule may be advanced if funding becomes available.

## **Regulatory Approvals**

<u>Section 404 Permit</u>: 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 the project be authorized by NW 23 for bridge construction.

<u>Section 401 Permit</u>: We anticipate 401 General Certification number 3891 will apply to this project. NCDOT is requesting written concurrence from the North Carolina Department of

TELEPHONE: 919-707-6000

Environmental and Natural Resources, Division of Water Resources. We are providing two copies of this application to the NCDWR for their approval.

A copy of this permit application and its distribution list will be posted on the NCDOT Website at https://connect.ncdot.gov/resources/Environmental/Pages/default.aspx, under Quick Links > Permit Applications. A copy of the CE is also available at the above website address under Quick Links > Environmental Documents. 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,

Richard W Hancock, P.E., Manager Project Development and Environmental Analysis Unit

NCDOT Permit Application Standard Distribution List cc:





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

	Pre-Construction Notification (PCN) Form						
A.	Applicant Information						
1.	Processing						
1a.	. Type(s) of approval sought from the Corps:						
1b.	Specify Nationwide Permit (NWP	) number: 2	or General Permit (G	P) number:			
1c.	Has the NWP or GP number bee	n verified b	y the Corps?	☐ Yes	⊠ No		
1d.	Type(s) of approval sought from	the DWQ (	check all that apply):			_	
		n – Regula	r Non-404 Jurisdiction	al General Permi	t		
	☐ 401 Water Quality Certificatio	n – Expres	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	☐ 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.	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 No. 17 over Lake Cree	ek on NC 210			
2b.	County:	Bladen Co	0.				
2c.	Nearest municipality / town:	Ivanhoe					
2d.	Subdivision name:	not applic	able				
2e.	NCDOT only, T.I.P. or state project no:	B-5117					
3.	Owner Information					_	
3a.	Name(s) on Recorded Deed:	North Car	olina Department of Transportation				
3b.	Deed Book and Page No.	not applic	able				
3c.	Responsible Party (for LLC if applicable):	not applicable					
3d.	Street address:	Street address: 1598 Mail Service Center					
3e.	City, state, zip:	Raleigh, N	NC 27699-1598				
3f.	Telephone no.:	(919) 707	-6156				
3g.	Fax no.:	(919) 250	-4224				
3h.	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, 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.:			
<b>5</b> f.	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: 34.8501 Longitude: - 78.5131 (DD.DDDDDD) (-DD.DDDDDD)				
1c.	Property size:	6.06 acres				
2.	Surface Waters					
2a.	Name of nearest body of water (stream, river, etc.) to proposed project:	Lake Creek				
2b.	Water Quality Classification of nearest receiving water:	C;Sw				
2c.	River basin:	Cape Fear				
3.	Project Description					
За.	Describe the existing conditions on the site and the general land use in the vicinity of the project at the time of this application: Existing conditions at the site include maintained/disturbed roadside shoulder and forested areas. Land use in the project vicinity is predominantly forested with some agriculture, and light residential development.					
3b.	Bb. List the total estimated acreage of all existing wetlands on the property: 0.60					
3c.	List the total estimated linear feet of all existing streams (interm	nittent and perennial) on the property: 197				
3d.	Explain the purpose of the proposed project: To replace a stru	acturally deficient and functionally obsolete bridge				
3e.	Describe the overall project in detail, including the type of equi					
	The project involves replacing a 69-foot, 4-span bridge with a 1 existing. Traffic will remain on-site during construction. Standarranes will be used.					
4.	Jurisdictional Determinations					
4a.	Have jurisdictional wetland or stream determinations by the Corps or State been requested or obtained for this property / project (including all prior phases) in the past?  Comments:	⊠ 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): Tyler Stanton	Agency/Consultant Company: NCDOT Other:				
4d.	If yes, list the dates of the Corps jurisdictional determinations of November 20, 2013	or State determinations and attach documentation.				
5.	Project History					
5a.	Have permits or certifications been requested or obtained for this project (including all prior phases) in the past?	☐ Yes ☐ 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	1. Impacts Summary						
1a. Which sections	were completed be	elow for your project (	check all that a	apply):			
	$\boxtimes$ S	Streams - tributaries	□Bu	ffers			
Open Waters	5 □ F	ond Construction					
2. Wetland Impac	ts						
				tion for each wetland a	area impacted		
2a. Wetland impact number – Permanent (P) or Temporary (T)	2b.  Type of impact	2c.  Type of wetland  (if known)	2d. Forested	Ze. Type of jurisdi (Corps - 404 DWQ – non-404	, 10	2f.  Area of impact (acres)	
Site 1 P T	Fill	Riverine	⊠ Yes □ No	⊠ Corps □ DWQ		< 0.01	
Site 2 ⊠ P □ T	Fill	Riverine	⊠ Yes □ No	□ Corps     □ DWQ		< 0.01	
Site 2 ⊠ P □ T	Excavation	Riverine	⊠ Yes □ No	□ Corps     □ DWQ		< 0.01	
Site 3 ⊠ P ☐ T	Fill	Riverine	⊠ Yes □ No	□ Corps     □ DWQ		0.15	
Site 3 ⊠ P □ T	Excavation	Riverine	⊠ Yes □ No	☐ Corps☐ DWQ		0.06	
				2g. Total wetlar	nd impacts	<ul><li>0.21 Permanent</li><li>0.00 Temporary</li></ul>	
	ands in the hand c	learing areas for the i		oosed temporary impa rosion control measur			
3. Stream Impacts	6						
If there are perennia question for all strea		eam impacts (includii	ng temporary in	npacts) proposed on t	he site, then	complete this	
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 4 ⊠ P □ T	Pipe	Ut to Lake Creek	⊠ PER   □ INT	⊠ Corps □ DWQ	2	36	
Site 4 ⊠ P □ T	Bank Stabilization	Ut to Lake Creek	⊠ PER □ INT	□ Corps     □ DWQ	2	12	
Site 4 ☐ P ⊠ T	Bank Stabilization	Ut to Lake Creek	⊠ PER □ INT	□ Corps     □ DWQ	2	20	
Site 4 P T			☐ PER ☐ INT	☐ Corps ☐ DWQ			
			3h. <b>T</b>	otal stream and tribu	itary impacts	48 Perm 20 Temp	
3i. Comments:							

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		Name of		<b>-</b>	( )	1	\\\ - ( - \  - \  - \		A	
impact nu Permaner		waterbody (if applicable)		Тур	e of impact	I	Waterbod	ly type	Area of im	pact (acres)
Tempora		(ii applicable)								
01 🗆 F	P $\square$ T									
01 🗌 F	Р∏Т									
O2 🗌 F	ТПС									
O3 🗌 F	P 🗌 T									
						4f. Total o	pen water i	mpacts		manent mporary
4g. Comm	4g. Comments:									
5. Pond	5. Pond or Lake Construction									
If pond or	lake cons	truction proposed,	then con	nplete	the chart b	elow.				
5a.	5b.		5c.				5d.			5e.
Pond ID	Pro	posed use or	We	Vetland Impacts (acres)		Stream Impac		ets (feet)	Upland (acres)	
number		pose of pond	Flood	ded	Filled	Excavat ed	Flooded	Filled	Excavated	Flooded
P1										
P2										
		5f. Total								
5g. Comm	ents:									
5h. Is a dam high hazard permit required?			□ Y	es	□No	If yes, peri	mit ID no	:		
5i. Expected pond surface area (acres):							-			
5j. Size o	of pond wa	atershed (acres):								
5k. Method of construction:										

6. Buffer Impacts (for DWQ)								
	If project will impact a protected riparian buffer, then complete the chart below. If yes, then individually list all buffer impacts below. If any impacts require mitigation, then you <b>MUST</b> fill out Section D of this form.							
6a. Project is in which	protected basin?	☐ Neuse ☐ Catawba	☐ Tar-Pamlico ☐ Randleman	Other:				
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					
B3 🗌 P 🗌 T			☐ Yes ☐ No					
	6h. Total buffer impacts							
6i. Comments:	6i. Comments:							

D.	D. Impact Justification and Mitigation					
1.	Avoidance and Minimization					
1a.	Specifically describe measures taken to avoid or minimize t	he proposed impacts i	n designing project.			
	The proposed bridge is 36 feet longer than the existing bridge. The removal of existing road fill for longer bridge and increasing bridge openings will improve hydrological conveyance and wildlife passage, and reduce bridge opening velocities.					
1b.	Specifically describe measures taken to avoid or minimize t	he proposed impacts t	hrough construction techniques.			
	Construction will be top-down. Best Management Practices Management Practices for Construction and Maintenance					
2.	Compensatory Mitigation for Impacts to Waters of the U	J.S. or Waters of the	State			
2a.	Does the project require Compensatory Mitigation for impacts to Waters of the U.S. or Waters of the State?					
2b.	If yes, mitigation is required by (check all that apply):	☐ DWQ ⊠ Co	rps			
2c.	If yes, which mitigation option will be used for this project?	<ul><li>☐ Mitigation bank</li><li>☑ Payment to in-lie</li><li>☐ Permittee Respo</li></ul>	. •			
3.	Complete if Using a Mitigation Bank					
3a.	Name of Mitigation Bank: not applicable					
3b.	Credits Purchased (attach receipt and letter)	Туре	Quantity			
3c.	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:	36 linear feet				
4c.	If using stream mitigation, stream temperature:	⊠ warm □ co	ol			
4d.	Buffer mitigation requested (DWQ only):	square feet				
4e.	Riparian wetland mitigation requested:	0.21 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 P	Plan				
5a.	If using a permittee responsible mitigation plan, provide a d	escription of the propo	sed mitigation plan.			

6. Buffer N	. Buffer Mitigation (State Regulated Riparian Buffer Rules) – required by DWQ						
•	project result in an impact wit uitigation?	n buffer that requires	☐ Yes ☐ No				
	6b. If yes, then identify the square feet of impact to each zone of the riparian buffer that requires mitigation. Calculate the amount of mitigation required.						
	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. 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	⊠ 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.	If this project DOES require a Stormwater Management Plan, then provide a brief, national See attached permit drawings and stormwater management plan.	rrative description	n of the plan:
2e.	Who will be responsible for the review of the Stormwater Management Plan?		al Government water Program nit
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 Suppl Other:	y Watershed
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 cou HQW ORW Session La Other:	nties w 2006-246
4b.	Has the approved Stormwater Management Plan with proof of approval been attached?	Yes	□ No N/A
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?		□ 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.)	⊠ 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 improst recent DWQ policy. If you answered "no," provide a short narrative description.	pact analysis in ac	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 wastewate	er generated from

5.	Endangered Species and Designate	d Critical Habitat (Corps Requirement	t)			
5a.	Will this project occur in or near an are habitat?	ea with federally protected species or	☐ Yes	⊠ No		
5b.	Have you checked with the USFWS co	oncerning Endangered Species Act	☐ Yes	⊠ No		
5c.	If yes, ind icate the USFWS Field Office	☐ Raleigh ☐ Asheville				
5d.	What data sources did you use to determine whether your site would impact Endangered Species or Designated Critical Habitat?					
	NCNHP, USFWS website, field survey	/s				
6.	Essential Fish Habitat (Corps Requi	rement)				
6a.	Will this project occur in or near an are	a designated as essential fish habitat?	☐ Yes [	⊠ No		
6b.	What data sources did you use to determine whether your site would impact Essential Fish Habitat?  NMFS County Index					
7.	Historic or Prehistoric Cultural Res	ources (Corps Requirement)				
7a.	a. 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)?					
7b.	What data sources did you use to dete	ermine whether your site would impact h	istoric or archeological re	sources?		
	NEPA Documentation					
8. F	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 FEM	A requirements: NCDOT Hydraulics Unit	coordination with FEMA			
8c.	What source(s) did you use to make th	e floodplain determination? FEMA Maps	3			
	<u>Richard W. Hancock, P.E.</u> Applicant/Agent's Printed Name	Applicant/Agent's Sig (Agent's signature is valid only if an authoriza is provided.)	gnature tion letter from the applicant	01/24/2014 Date		



December 19, 2013

Mr. Richard W. Hancock, P.E. Project Development and Environmental Analysis Unit North Carolina Department of Transportation 1548 Mail Service Center Raleigh, North Carolina 27699-1548

Dear Mr. Hancock:

Subject: EEP Mitigation Acceptance Letter:

B-5117, Replace Bridge Number 17 over Lake Creek on NC 210, Bladen 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 December 17, 2013, the impacts are located in CU 03030006 of the Cape Fear River basin in the Southern Inner Coastal Plain (SICP) Eco-Region, and are as follows:

Cape Fear		Stream		Wetlands			Buffer (Sq. Ft.)		
03030006 SICP	Cold	Cool	Warm	Riparian	Non- Riparian	Coastal Marsh	Zone 1	Zone 2	
Impacts (feet/acres)	0	0	36.0	0.21	0	0	0	0	

<sup>\*</sup>Some of the stream and wetland impacts may be proposed to be mitigated at a 1:1 mitigation ratio. See permit application for details.

This impact and associated mitigation need were under projected by the NCDOT in the 2013 impact data. EEP will commit to implement sufficient compensatory stream and riparian wetland mitigation credits to offset the impacts associated with this project as determined by the regulatory agencies using the delivery timeline listed in Section F.3.c.iii of 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 919-707-8420.

Sincerely,

James B. Stanfill

EEP Asset Management Supervisor

Mr. Ronnie Smith, USACE – Wilmington Regulatory Field Office

Mr. Mason Herndon, Division of Water Quality, Fayetteville Office

File: B-5117

cc:



## U.S. ARMY CORPS OF ENGINEERS

#### WILMINGTON DISTRICT

Action Id. SAW-2013-02241 County: Bladen U.S.G.S. Quad: Rowan

### NOTIFICATION OF JURISDICTIONAL DETERMINATION

Property Owner/Agent: Mr. Tyler Stanton

NCDOT

Address: 1598 Mail Service Center

Raleigh, North Carolina 27699

Telephone No.:

Property description:

Size (acres) ~7 Nearest Town Nearest Waterway Lake Creek River Basin Cape Fear

USGS HUC <u>03030006</u> Coordinates N <u>34.589458</u> W <u>-78.297734</u>

Location description: B-5117. The project area is located at Bridge Number 47 over the Lake Creek along NC 210,

southeast of White Lake, Bladen County. North Carolina.

### **Indicate Which of the Following Apply:**

## A. Preliminary Determination

X Based on preliminary information, there may be waters of the U.S. including wetlands on the above described project area. This preliminary determination is not an appealable action under the Regulatory Program Administrative Appeal Process (Reference 33 CFR Part 331).

## **B.** Approved Determination

There are Navigable Waters of the United States within the above described project area subject to the permit requirements of Section 10 of the Rivers and Harbors Act and Section 404 of the Clean Water Act. Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.

There are waters of the U.S. including wetlands on the above described project area subject to the permit requirements of Section 404 of the Clean Water Act (CWA)(33 USC § 1344). Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.

- We strongly suggest you have the wetlands on your property delineated. Due to the size of your property and/or our present workload, the Corps may not be able to accomplish this wetland delineation in a timely manner. For a more timely delineation, you may wish to obtain a consultant. To be considered final, any delineation must be verified by the Corps.
- \_ The waters of the U.S. including wetland on your project area have been delineated and the delineation has been verified by the Corps.
- \_ The waters of the U.S. including wetlands have been delineated and surveyed and are accurately depicted on the plat signed by the Corps Regulatory Official identified below on September 29, 2010. Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.
- There are no waters of the U.S., to include wetlands, present on the above described project area which are subject to the permit requirements of Section 404 of the Clean Water Act (33 USC 1344). Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.
- The property is located in one of the 20 Coastal Counties subject to regulation under the Coastal Area Management Act (CAMA). You should contact the Division of Coastal Management in Wilmington, NC at (910) 796-7215 to determine their requirements.

Placement of dredged or fill material within waters of the US and/or wetlands without a Department of the Army permit may constitute a violation of Section 301 of the Clean Water Act (33 USC § 1311). If you have any questions regarding this determination and/or the Corps regulatory program, please contact Ronnie Smith at 910-251-4829.

#### C. Basis For Determination

The site exhibits wetland criteria as described in the 1987 Corps Wetland Delineation Manual and appropriate regional supplement. The water bodies exhibit ordinary high water marks as indicated by the absence of vegetation in the stream channel and the presence of wrack lines and bed and banks.

#### D. Remarks

The review area has been revised and extended to the north to include the waterbody labeled UT to Lake Creek. The review area is shown on the attached map (Figure 3).

## E. Attention USDA Program Participants

This delineation/determination has been conducted to identify the limits of Corps' Clean Water Act jurisdiction for the particular site identified in this request. The delineation/determination may not be valid for the wetland conservation provisions of the Food Security Act of 1985. If you or your tenant are USDA Program participants, or anticipate participation in USDA programs, you should request a certified wetland determination from the local office of the Natural Resources Conservation Service, prior to starting work.

## F. Appeals Information (This information applies only to approved jurisdictional determinations as indicated in B. above)

This correspondence constitutes an approved jurisdictional determination for the above described site. If you object to this determination, you may request an administrative appeal under Corps regulations at 33 CFR part 331. Enclosed you will find a Notification of Appeal Process (NAP) fact sheet and request for appeal (RFA) form. If you request to appeal this determination you must submit a completed RFA form to the following address:

District Engineer, Wilmington Regulatory Division Attn: Ronnie Smith, Project Manager, Wilmington Regulatory Field Office 69 Darlington Ave Wilmington, North Carolina 28403

In order for an RFA to be accepted by the Corps, the Corps must determine that it is complete, that it meets the criteria for appeal under 33 CFR part 331.5, and that it has been received by the District Office within 60 days of the date of the NAP. Should you decide to submit an RFA form, it must be received at the above address by January 19, 2014.

\*\*It is not necessary to submit an RFA form to the District Office if you do not object to the determination in this correspondence.\*\*

Corps Regulatory Official: Ronnie Smith

ALE.1281725242 ou=DoD, ou=PKI, ou=USA, cn=SMITH.RONNIE.DALE.1281725242

Digitally signed by SMITH.RONNIE.D SMITH.RONNIE.DALE.1281725242 DN: c=US, o=U.S. Government,

Date: 2013.11.20 14:13:30 -05'00'

Date: November 20, 2013

The Wilmington District is committed to providing the highest level of support to the public. To help us ensure we continue to do so, please complete the Customer Satisfaction Survey located at our website at http://per2.nwp.usace.army.mil/survey.html to complete the survey online.

Copy Furnished: Chris Rivenbark-NCDOT NES (Electronic Only)



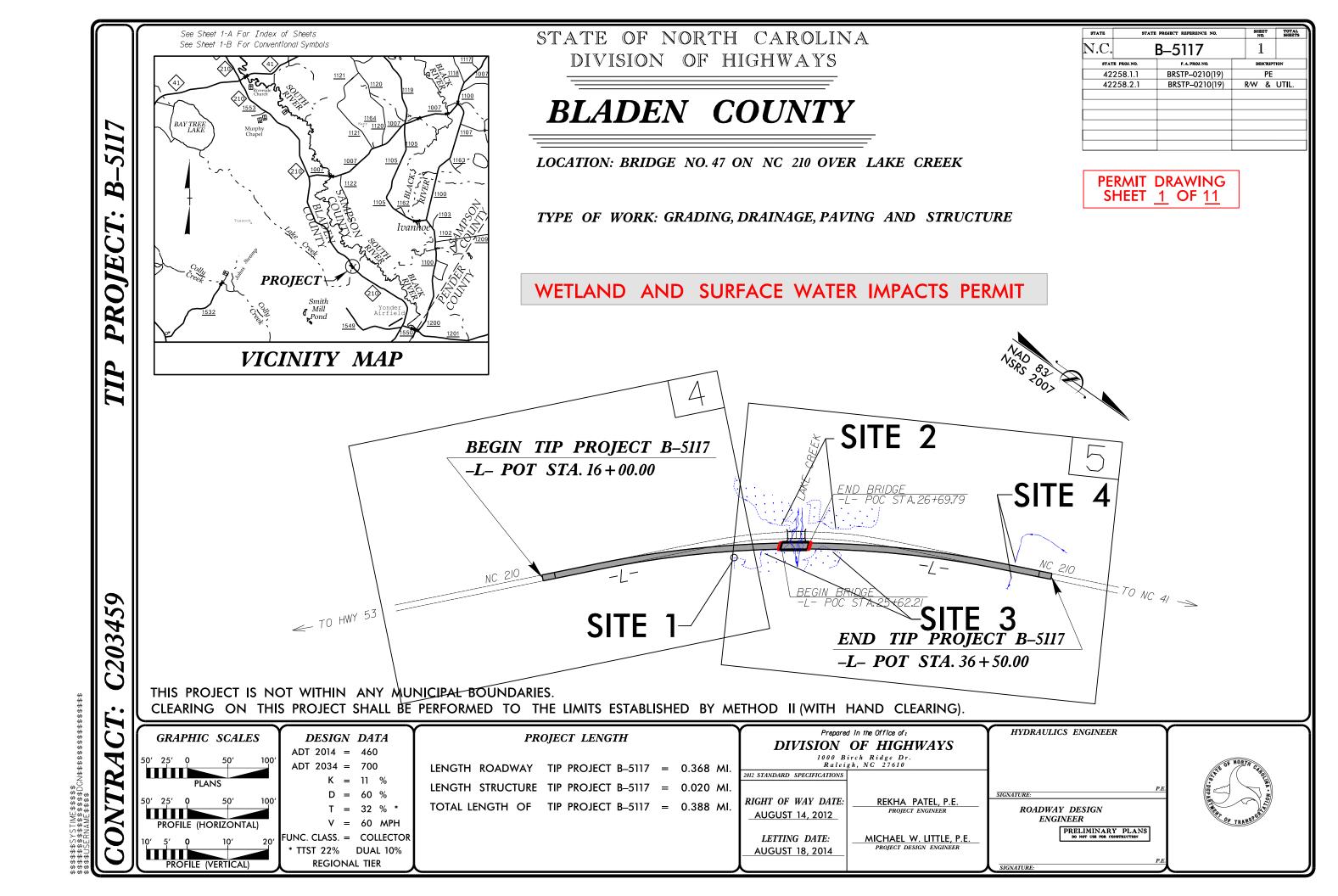
## North Carolina Department of Transportation

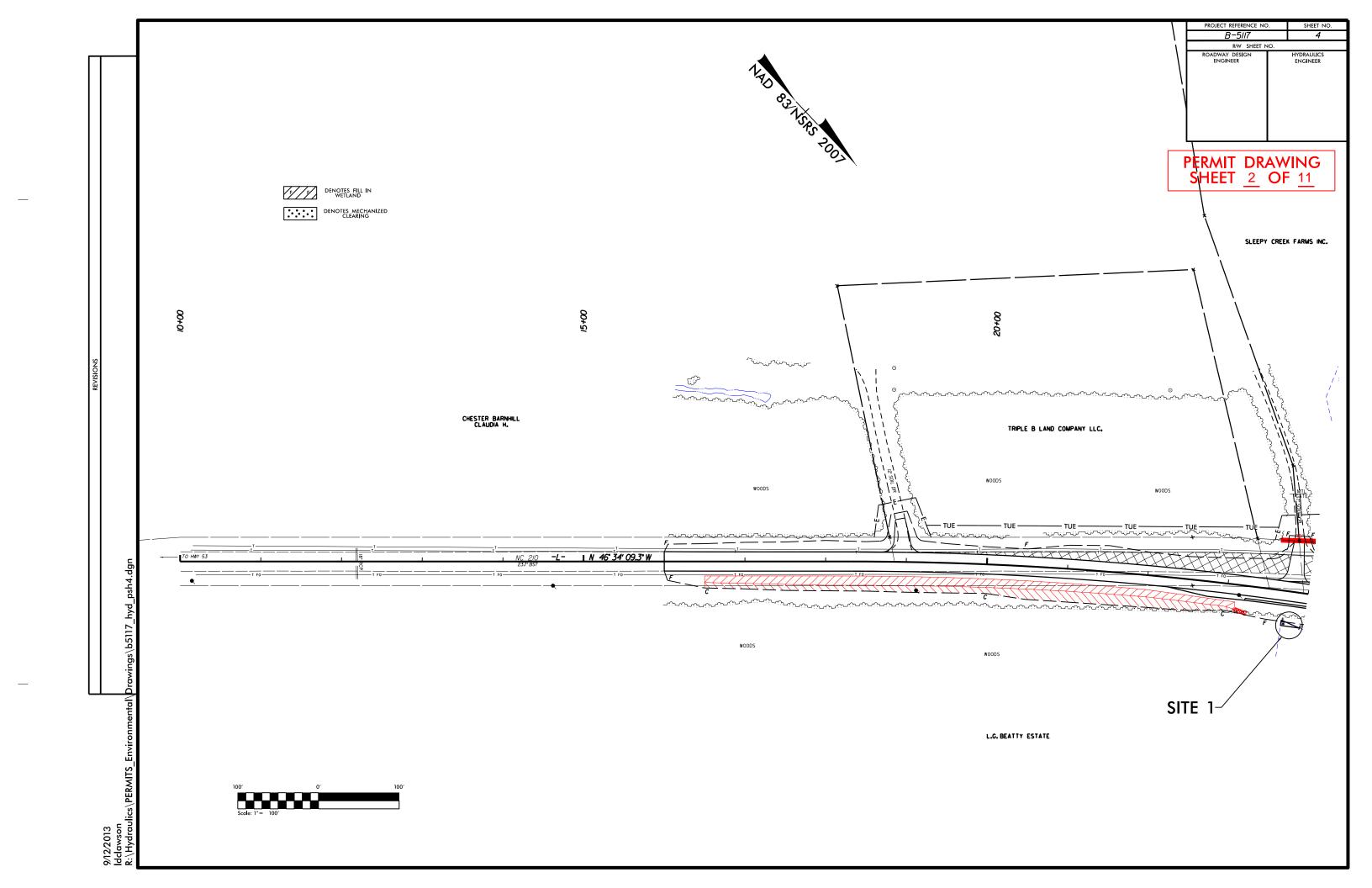
## Highway Stormwater Program STORMWATER MANAGEMENT PLAN FOR LINEAR ROADWAY PROJECTS

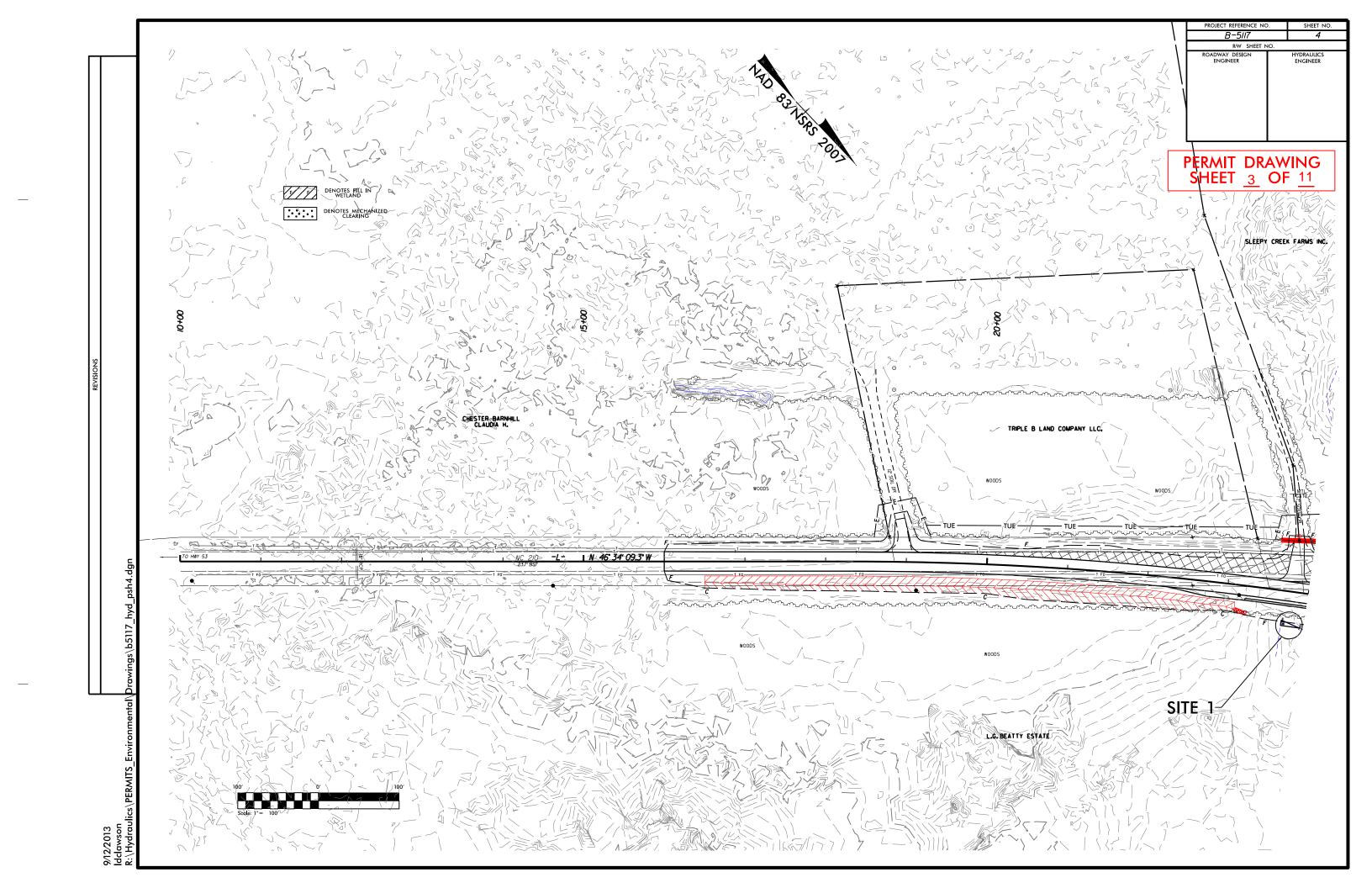


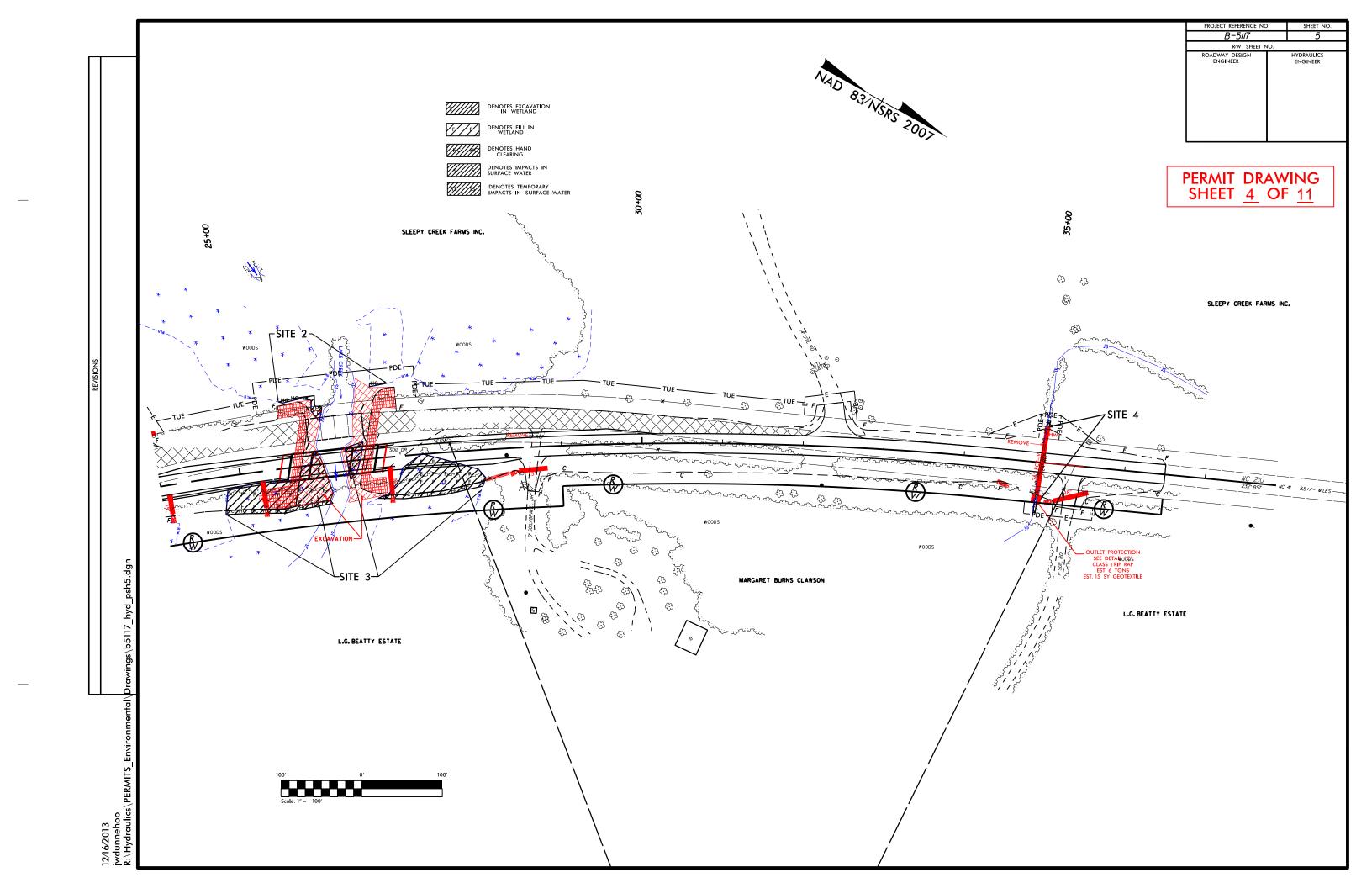
(Version 1.2; Released September 2011)

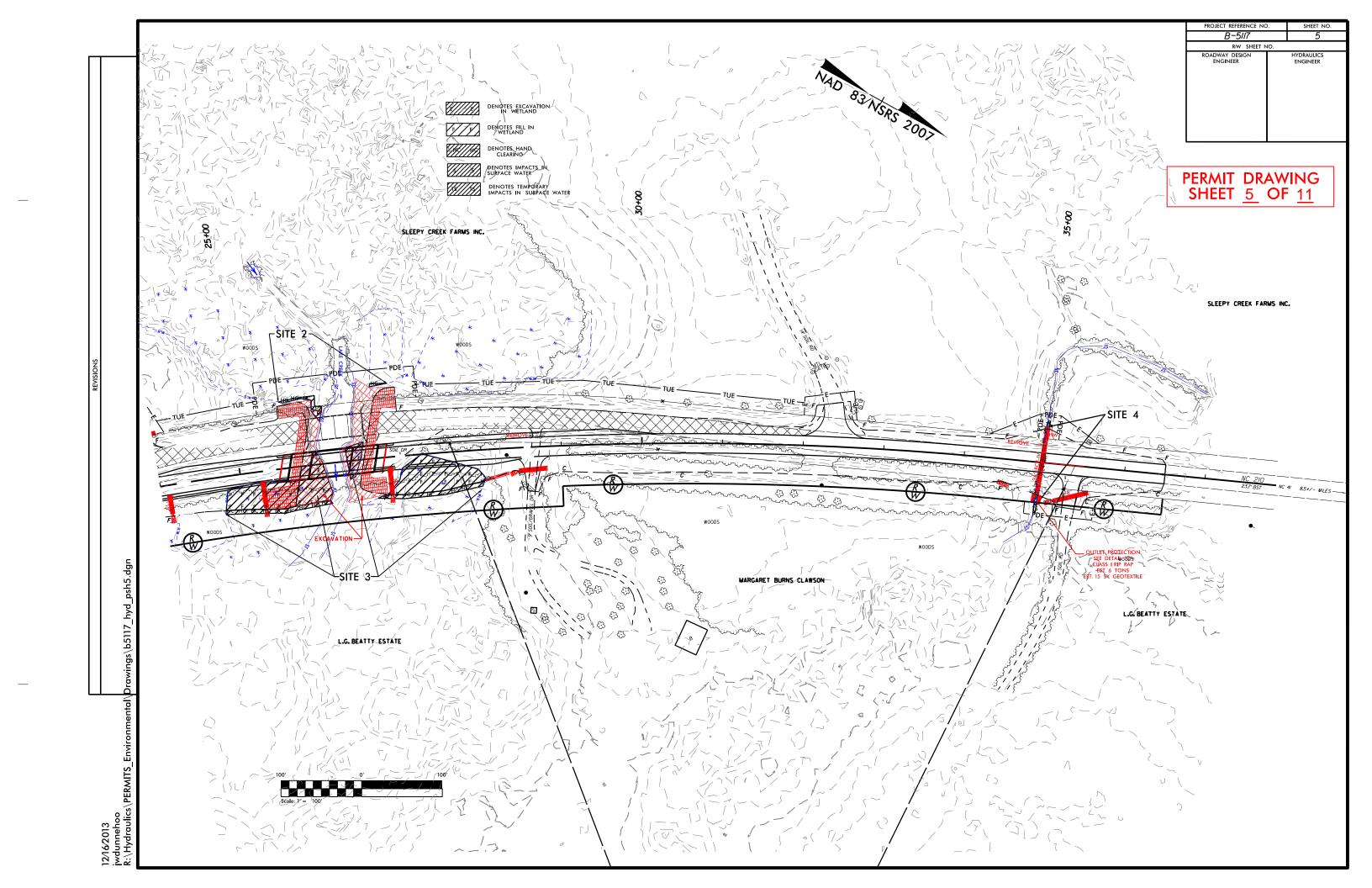
Project/TIP No.:	B-5117	County(ies):	Bladen					Pag	je 1	of	1
			General Project	ct Information							
Project No.:		B-5117		Project Type:	Bridge Replac	cement		Date:	9/12/2013		
NCDOT Contact:		Galen W. Cail	Contractor / Designer: Joe Dunnehoo								
	Address:	1020 Birch Ridge Drive			Address:	1020 Birch	Ridge Drive				
		Raleigh, NC 27610				Raleigh, NC 27610					
		919-707-6711		Phone: 919-707-6717							
	Email:	gcail@ncdot.gov				: jwdunnehoo@ncdot.gov					
City/Town:		Ivanhoe		County(ies):	Blac						
River Basin(s):	_	Cape Fear		CAMA County?	No.						
Primary Receiving W	ater:	Lake Creek	T	NCDWQ Stream In		18-68-12-1	8	1			
NCDWQ Surface Wat	ter Classification	for Primary Receiving Water	Primary:	Class C						ł	
01 01 11		.,	Supplemental:	Swamp Wate	vamp Waters (Sw)						
Other Stream Classif	rication:	None									
303(d) Impairments: Buffer Rules in Effec	4	N/A None									
Buller Rules III Ellec	i.	IN/A	Project De	carintian							
Project Length (lin. N	files or feet):	.388 Mi.	Surrounding Land Use:	scription		Wooded	d and Agricultura	al areas			
r roject Length (iiii: ii	mics of feety.		Proposed Project				<del>-</del>	ting Site			
Project Built-Upon A	rea (ac.)	1.28		1.16 ac.							
Typical Cross Sectio		Two - 12' Travel Lanes, 6' Grass S	ac. houlders, 3:1 Side Slopes		Two - 10 ft. lanes with 6 ft. grass shoulders						
Average Daily Traffic		Design/Future:	700 (2035)		Existing: 470 (2015)						
General Project Narra	ative:	Replace bridge # 47 over Lake Cre									
		@ 17'8", 1@ 16'11", 1@ 16'10", 1@ 17'8") total length of 69' will be replaced with a 1 @ 25', 1@50', 1@30' 21" cored slab bridge. The new bridge reduces the number of bents									
		in Lake Creek.									
		Best Mgmt. Practices:									
		- Promotion of sheet flow and infiltr		cept where shoulder	berm gutter to	2 GI in the r	northeast and so	outheast quad	Irants of the brid	ige.	
		- Drainage systems oulet to rip rap		de conveyance and i	reduce bridge	oneniha vela	ocities				
		- Removal of existing roadway fill under the bridge will improve bridge conveyance and reduce bridge openibg velocities 3:1 side slopes used in the wetlands.									
		- 4:1 front slopes and 3:1 back slop		١.							
			Pefere	2222							

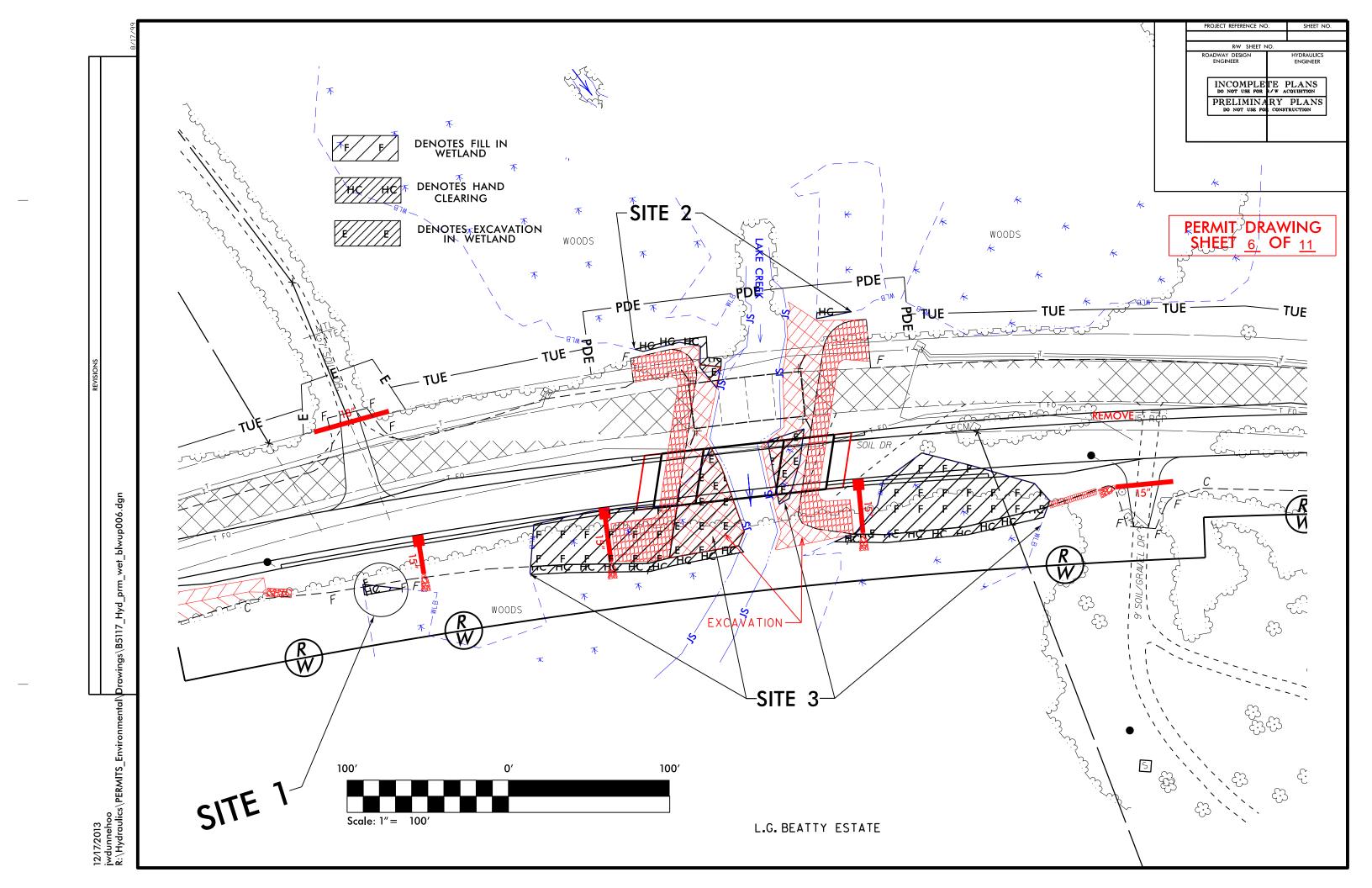


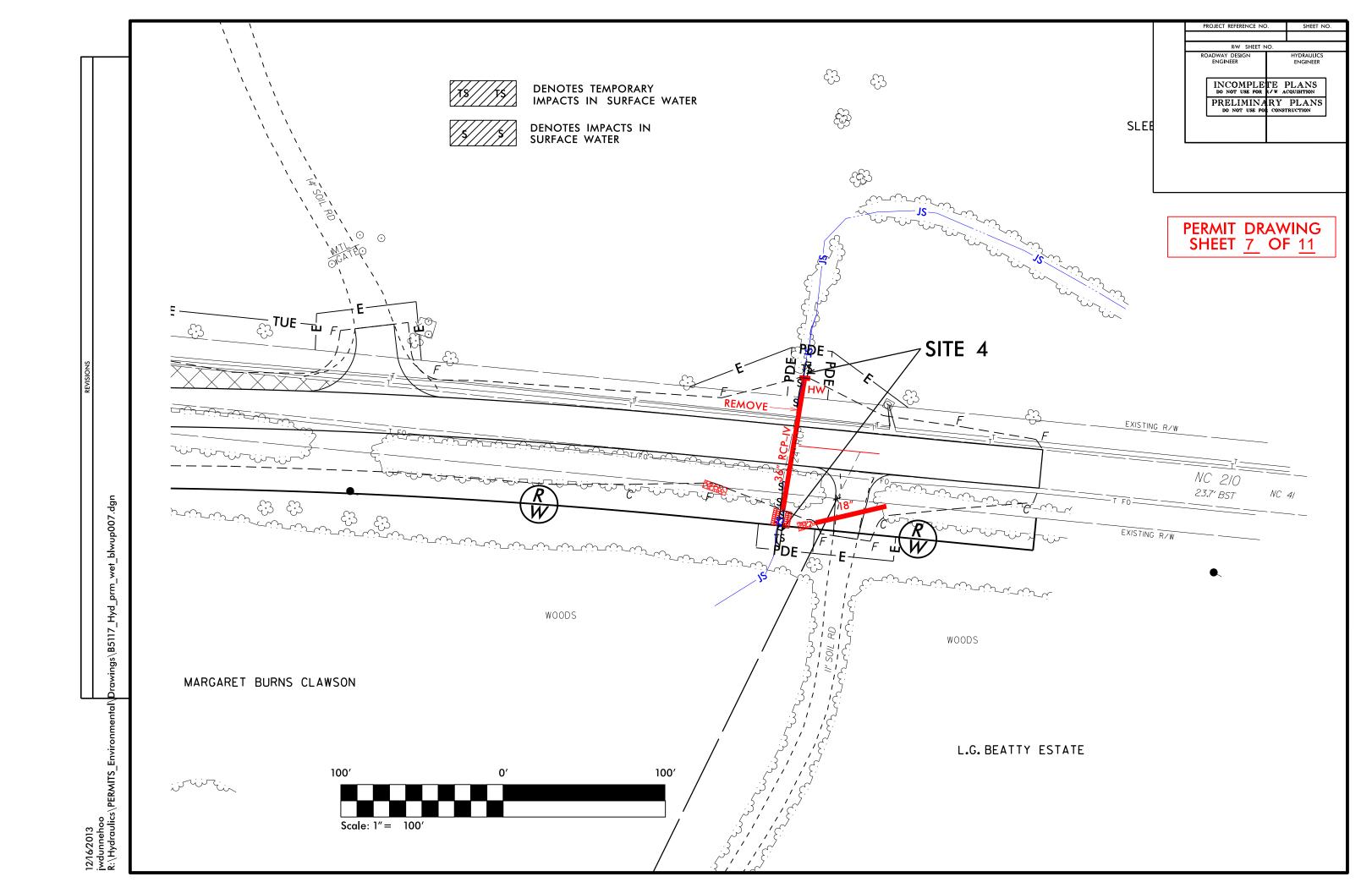


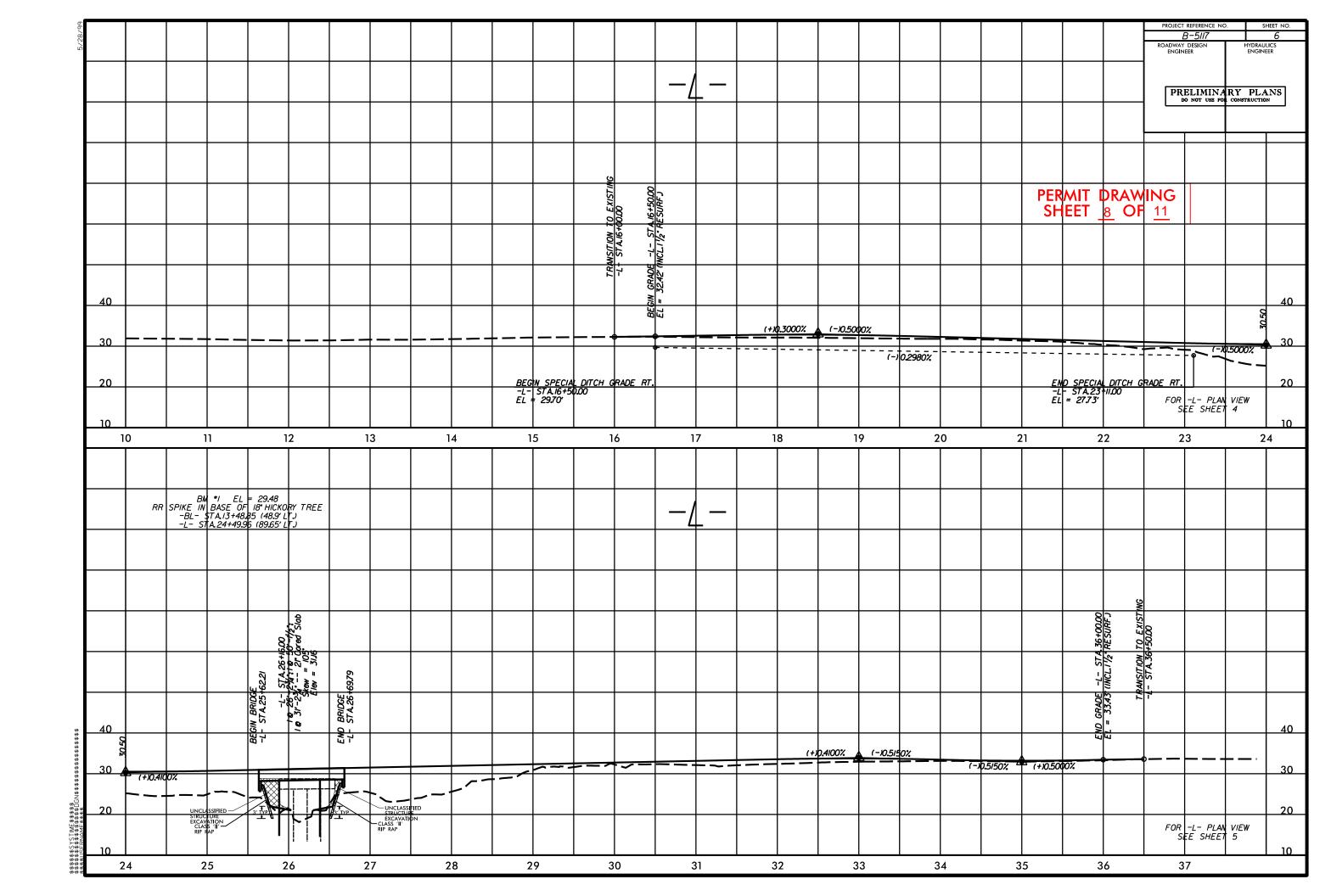


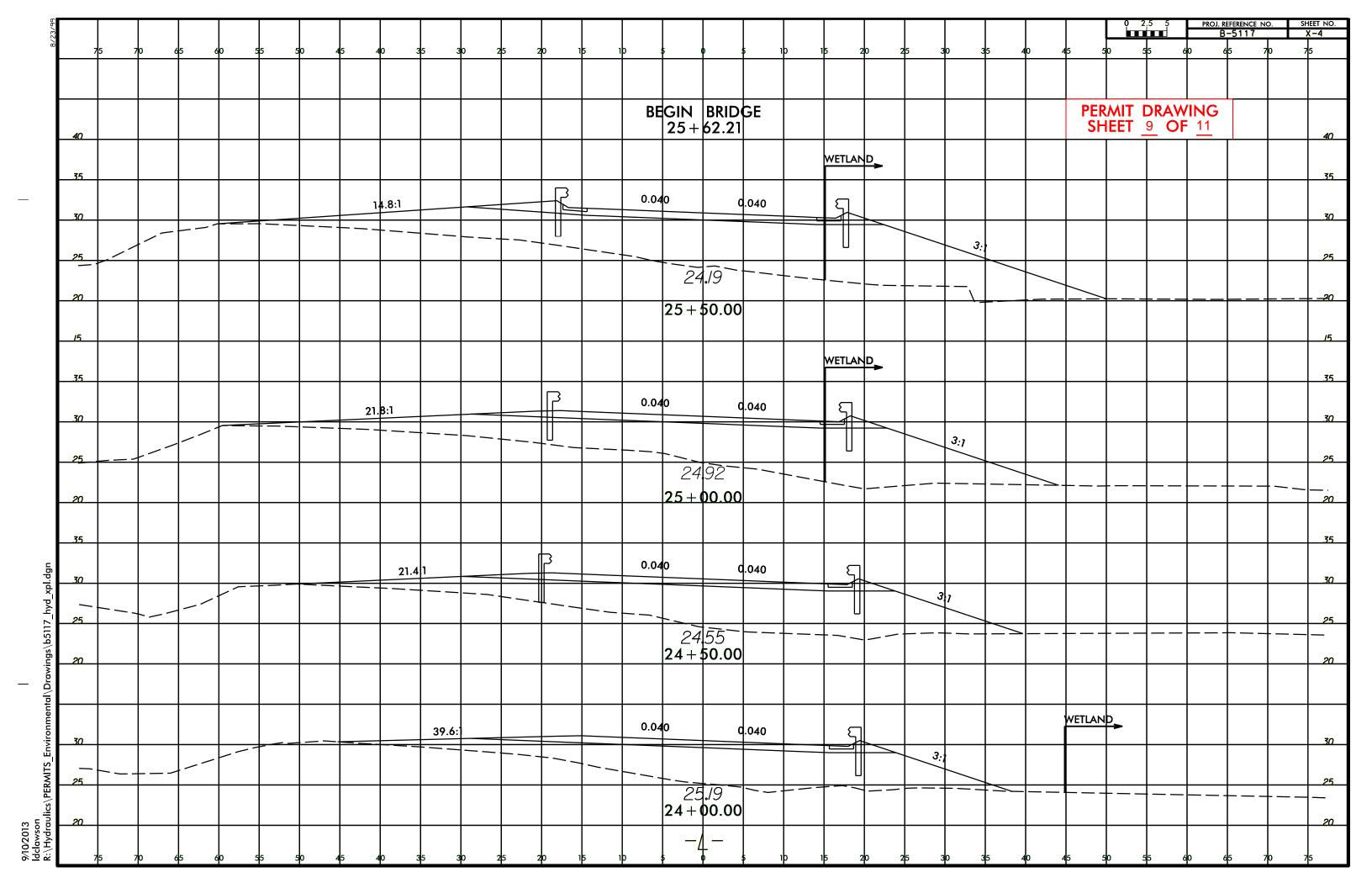


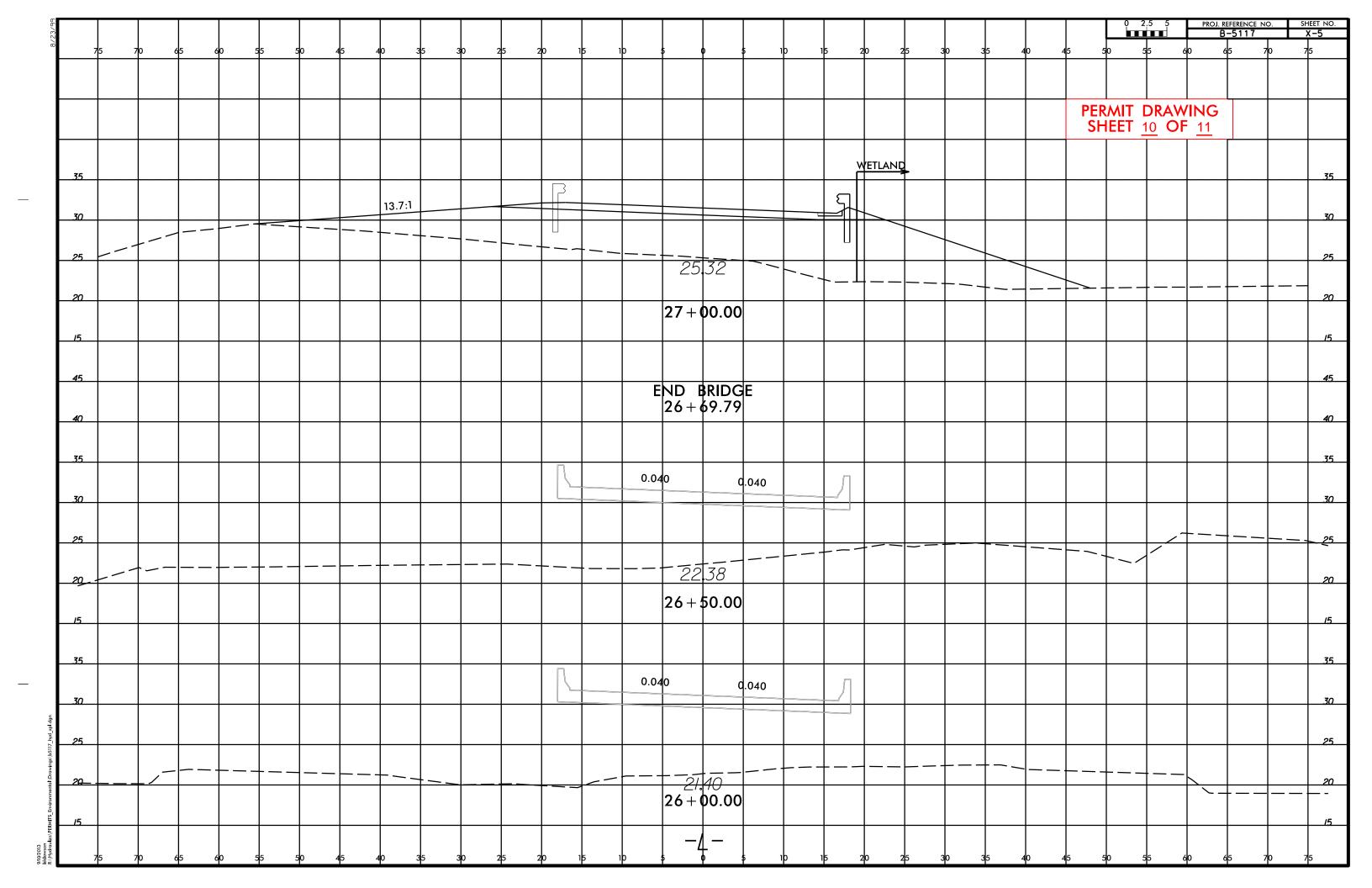












					WI	ETI AND PEI	OMIT IMPA	CT SUMMA	PV	1		
		I	WETLAND PERMIT IMPACT SUMMARY WETLAND IMPACTS SURFACE WATER IMPACTS					PACTS				
Site No.	Station (From/To)	Structure Size / Type	Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
1	23+71 LT	FILL	<.01				<.01					
2	25+60-26+90 LT	FILL	<.01		<.01		<.01					
3	24+76-28+04 RT	FILL/EXCAVATION	0.15		0.06		0.03					
4	34+97 RT & LT	36" RCP						<.01		36		
		BANK						<.01	<.01	12	20	
		STABILIZATION										
										3		
		. ,										
		1,										
									9 11			
			20									
TOTAL	S:		0.15		0.06		0.04	<.01	<.01	48	20	

0.01 acre of Temporary Fill in Wetlands in the Hand Clearing areas for erosion control measures.

Permit Drawing
Sheet 11 of 11

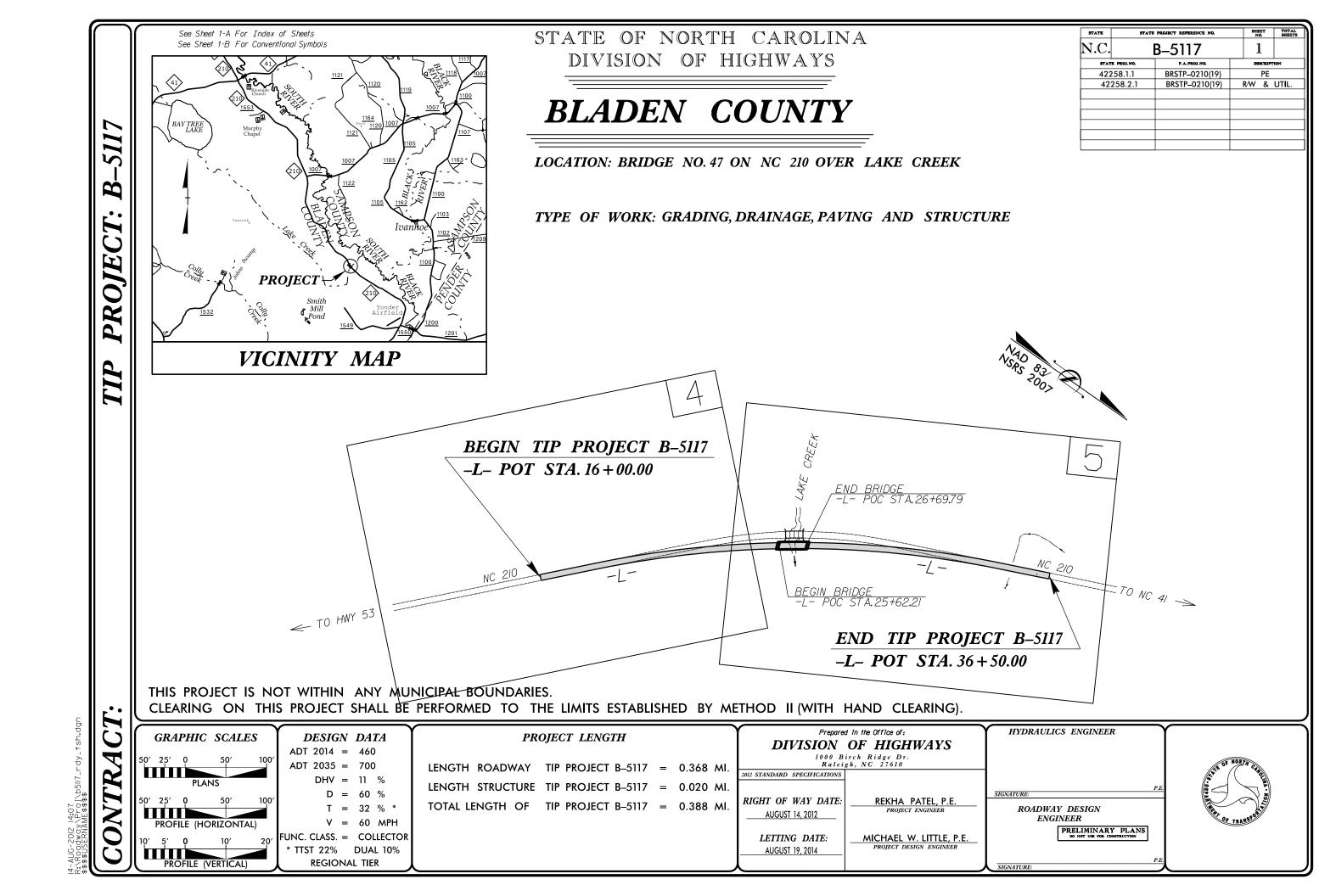
NC DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

BLADEN COUNTY
WBS - 42258.1.1 (B-5117)

SHEET

1/21/2014

ATN Revised 3/31/05



## STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

Recorded U/G Fiber Optics Cable ———

Designated U/G Fiber Optics Cable (S.U.E.\*) ---- --

# CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:			
State Line County Line		D 4 H DO 4 D C	
•		RAILROADS:	
Township Line		Standard Gauge	CSX TRANSPORTATION
City Line		RR Signal Milepost	MILEPOST 35
Reservation Line		Switch —	
Property Line		RR Abandoned —	
Existing Iron Pin		RR Dismantled	
Property Corner		RIGHT OF WAY:	
Property Monument		Baseline Control Point	<b>•</b>
Parcel/Sequence Number		Existing Right of Way Marker —————	$\triangle$
Existing Fence Line		Existing Right of Way Line	
Proposed Woven Wire Fence	<del></del>	Proposed Right of Way Line —————	<del></del>
Proposed Chain Link Fence		Proposed Right of Way Line with Iron Pin and Cap Marker	_
Proposed Barbed Wire Fence		Proposed Right of Way Line with	
Existing Wetland Boundary		Concrete or Granite R/W Marker	<del>*************************************</del>
Proposed Wetland Boundary —————		Proposed Control of Access Line with	<b>A</b>
Existing Endangered Animal Boundary ———		Concrete C/A Marker	
Existing Endangered Plant Boundary ———	ЕРВ	Existing Control of Access	707
Known Soil Contamination: Area or Site ——	<b></b> ∞ <b>∑</b>	Proposed Control of Access	<del></del>
Potential Soil Contamination: Area or Site —	——xx—— XX	Existing Easement Line ————————————————————————————————————	——Е——
BUILDINGS AND OTHER CULT	TURE:	Proposed Temporary Construction Easement –	Е
Gas Pump Vent or U/G Tank Cap ———	<b>–</b> o	Proposed Temporary Drainage Easement ——	TDE
Sign —	⊙ §	Proposed Permanent Drainage Easement ——	PDE
Well		Proposed Permanent Drainage / Utility Easemen	ntDUE
Small Mine		Proposed Permanent Utility Easement ———	PUE
Foundation —		Proposed Temporary Utility Easement ———	TUE
Area Outline		Proposed Aerial Utility Easement ————	AUE
Cemetery —		Proposed Permanent Easement with	^
Building —		Iron Pin and Cap Marker	<b>*</b>
School —		ROADS AND RELATED FEATUR	ES:
Church —	#	Existing Edge of Pavement ————	
	_ 25	Existing Curb —————	
Dam —		Proposed Slope Stakes Cut ————	<u>c</u>
HYDROLOGY:		Proposed Slope Stakes Fill —————	
Stream or Body of Water ——————		Proposed Curb Ramp —	CR
Hydro, Pool or Reservoir ———————	- []	Existing Metal Guardrail —————	
Jurisdictional Stream		Proposed Guardrail ————————————————————————————————————	
Buffer Zone 1	BZ 1	Existing Cable Guiderail	
Buffer Zone 2 ———————————————————————————————————	BZ 2	Proposed Cable Guiderail	
Flow Arrow —	-	Equality Symbol	•
Disappearing Stream ———————	->	Pavement Removal —	
Spring ————	-0	VEGETATION:	r V V V V V
Wetland	<b>-</b>	Single Tree	÷
Proposed Lateral, Tail, Head Ditch ————	_ >>>>	Single Shrub	
False Sump —	- Š	Hedge	
	-	Woods Line	
		Woods Line	יניטרע גירע גירע גירע

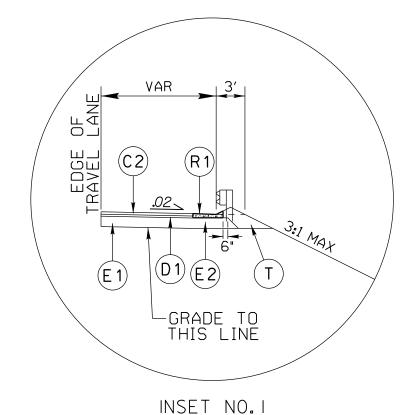
		WATER:
		Water Ma
		Water Me
Orchard —	- 6 6 6 6	Water Val
Vineyard —	- Vineyard	Water Hyd
vineyara	, moyar o	Recorded
EXISTING STRUCTURES:		Designate
MAJOR:		Above Gr
Bridge, Tunnel or Box Culvert ————	CONC	
Bridge Wing Wall, Head Wall and End Wall		TV:
MINOR:		TV Satelli
Head and End Wall ———————		TV Pedes
Pipe Culvert ————		TV Tower
Footbridge —	<b>&gt;</b>	U/G TV (
Drainage Box: Catch Basin, DI or JB	СВ	Recorded
Paved Ditch Gutter		Designate
Storm Sewer Manhole —		Recorded
Storm Sewer —		Designate
Sioriii Sewei	•	
UTILITIES:		GAS:
POWER:		Gas Valve
Existing Power Pole	- •	Gas Mete
Proposed Power Pole	- 6	Recorded
Existing Joint Use Pole		Designate
Proposed Joint Use Pole		Above Gr
Power Manhole		
Power Line Tower —		SANITARY
Power Transformer —		Sanitary S
U/G Power Cable Hand Hole		Sanitary S
H-Frame Pole		U/G Sani
Recorded U/G Power Line		Above Gr
Designated U/G Power Line (S.U.E.*)		Recorded
Designated 0/G Fower Line (3.0.E.)	·	Designate
TELEPHONE:		
Existing Telephone Pole	<del>-</del> -	MISCELLAN
Proposed Telephone Pole —	0-	Utility Pol
Telephone Manhole	- <b>(</b>	Utility Pol
Telephone Booth	- (	Utility Loc
Telephone Pedestal	- 🔳	Utility Tra
Telephone Cell Tower		Utility Un
U/G Telephone Cable Hand Hole	- HH	U/G Tank
Recorded U/G Telephone Cable ————	<del>_</del>	Undergro
Designated U/G Telephone Cable (S.U.E.*)—		A/G Tank
	тс	Geoenviro
Designated U/G Telephone Conduit (S.U.E.*)		U/G Test
(0.0.E. )		AI I

/ater Manhole —————	W
/ater Meter —————	0
/ater Valve ————	8
/ater Hydrant ————————————————————————————————————	•\$
ecorded U/G Water Line ————	w
esignated U/G Water Line (S.U.E.*)	
bove Ground Water Line ————	
:	
V Satellite Dish ————	$   \ll $
V Pedestal —————	
V Tower	$\otimes$
/G TV Cable Hand Hole ————	HH
ecorded U/G TV Cable ————	тv
esignated U/G TV Cable (S.U.E.*)———	
ecorded U/G Fiber Optic Cable ————	
esignated U/G Fiber Optic Cable (S.U.E.*)—	
AS:	
as Valve ————	$\Diamond$
as Meter ———————————————————————————————————	$\Diamond$
ecorded U/G Gas Line	c
esignated U/G Gas Line (S.U.E.*)———	
bove Ground Gas Line	A/G Gas
NITARY SEWER:	
anitary Sewer Manhole ————	•
anitary Sewer Cleanout ———————	
/G Sanitary Sewer Line —————	
bove Ground Sanitary Sewer ————	
ecorded SS Forced Main Line—————	FSS —
esignated SS Forced Main Line (S.U.E.*) —	FSS
SCELLANEOUS:	
tility Pole ——————	•
tility Pole with Base ——————	•
tility Located Object ——————	⊙
tility Traffic Signal Box ———————	S
tility Unknown U/G Line —————	
/G Tank; Water, Gas, Oil —————	
Inderground Storage Tank, Approx. Loc. ——	UST)
mangrooma ororago raim, Approxi 200.	
/G Tank; Water, Gas, Oil ——————	
/G Tank; Water, Gas, Oil ———————————————————————————————————	<b>─</b>
/G Tank; Water, Gas, Oil —————	<b>⊗ ⊙</b>
/G Tank; Water, Gas, Oil ———————————————————————————————————	•

PAVEMENT SCHEDULE							
C2	3" TYPE S9.5B						
С3	VAR. DEPTH TYPE S9.5B						
D1	2½" TYPE I19.0B						
E1	5" TYPE B25.0B						
R1	SHOULDER BERM GUTTER						
Т	EARTH MATERIAL						

	334	    -10"	
4'-6" MIN.	12' C 3	12' GRADE POINT .04	4'-6" MIN.
<u> 00 00</u>	00 00 00 00 MIN. 2½"	00 00 00 00	0000

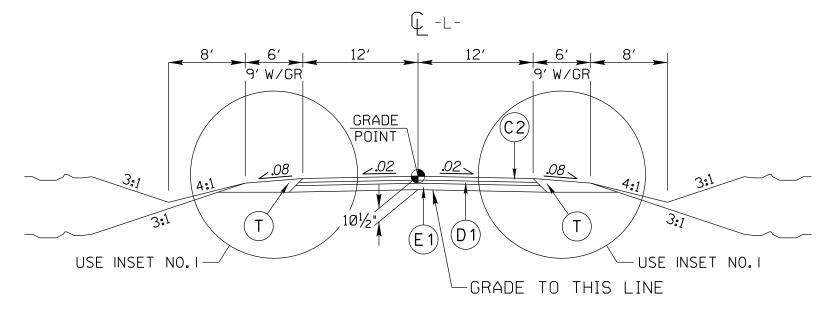
WEARING SURFACE ON CORED SLAB BRIDGE
-L- STA. 25+62.21 TO -L- STA. 26+69.79



INSET NO. I

Use with Typical Section No. 2

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



TYPICAL SECTION NO. 2

## USE TYPICAL SECTION NO. 2

- -L- STA. 22+80.00 TO -L- STA. 25+62.21 (BEGIN BRIDGE)
- -L- STA. 26+69.79 (END BRIDGE) TO -L- STA. 30+00.00

## USE INSET NO. I FOR:

- -L- STA. 23+23.00 TO BEGIN OF APPROACH SLAB (RT.)
- -L- STA. 25+49 +/- TO BEGIN OF APPROACH SLAB (LT.) REVERSE
- END OF APPROACH SLAB TO -L- STA. 27+67.00 (RT.)
- END OF APPROACH SLAB TO -L- STA. 26+91+/- (LT.) REVERSE

|4-AUG-20|2 |4:0 / |R:\Roadway\Proj\b5117\_rdy\_typ. |\$\$\$\$||GFRNAMF\$\$\$\$

