

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE GOVERNOR

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

June 8, 2012

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 23 & 33 and Section 401 Water Quality Certification for the proposed replacement of Bridge No. 59 over the South Fork of the New River on SR 1331 in Watauga County, Federal Aid Project No. BRZ-1331(12); Division 11; TIP No. B-4836

\$570.00 debit WBS No. 38606.1.1

Dear Sir:

The North Carolina Department of Transportation (NCDOT) proposes to replace Bridge No. 59 (a one-lane bridge) over the South Fork of the New River on SR 1331 with a 2-lane, 217-foot long, 4-span bridge. Impacts will be as follows:

To South Fork New River (SFNR):

- 63 linear feet of streambank stabilization to minimize erosion and sedimentation, and
- 0.05 acre of temporary impacts for the placement of temporary work pads. Please note that the temporary work pads on one bank are to be removed before installation of the temporary work pads on the opposite bank, as noted on the permit drawings (Sheet 4-6 of 8).

To a UT to SFNR, due to relocation of the UT:

- 174 linear feet of permanent stream impact (158 LF of fill and 16 LF of stream bank stabilization) and,
- 0.06 acre of permanent impacts to a wetland.

NCDOT does not propose mitigation for stream bank stabilization along the SFNR. Stabilizing the bank of a stream does not require fill in the stream bed and, therefore, under Section 404 of the Clean Water Act, does not constitute Loss of Waters of the U.S. and is not subject to compensatory mitigation by the USACE.

WEBSITE: WWW.NCDOT.ORG

Mitigation for the stream bank stabilization along the **UT to SFNR** will be required by NCDWQ, as the total impacts to the UT exceed 150 linear feet. Mitigation confirmation has been received from EEP. As noted in the PCN, the USACE is not requiring mitigation for impacts to the **UT to SFNR** (due to lack of function) or for impacts to the associated wetland (due to limited function). This determination was made in the field by Monte Mathews during the June 17, 2011 site visit, and confirmed by him in a March 9, 2012 e.mail.

Please see enclosed copies of the Pre-Construction Notification (PCN), EEP acceptance letter, Stormwater Management Plan, permit drawings, and design plans. Rapanos forms were included in a letter submitted (dated September 21, 2011), requesting a Jurisdictional Determination at the time of permitting. A Categorical Exclusion (CE) was completed in July 2011 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 15, 2013 and a review date of November 27, 2012; however, the let date may advance as additional funding becomes available.

A copy of this permit application and its distribution list will be posted on the NCDOT Website at: http://www.ncdot.org/doh/preconstruct/pe/neu/permit.html. If you have any questions or need additional information, please call Bill Barrett at (919) 707-6103.

Sincerely, Lunk

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.	. Type(s) of approval sought from the Corps:					
1b.	Specify Nationwide Permit (NWP) number: 2	or General Permit (G	SP) number:		
1c.	Has the NWP or GP number bee	en verified b	by the Corps?	☐ Yes	⊠ No	
1d.	Type(s) of approval sought from	the DWQ (check all that apply):			
		n – Regula	r Non-404 Jurisdiction	onal General Perm	it	
	☐ 401 Water Quality Certification	n – Expres	s Riparian Buffer Au	horization		
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:	
	because writterr approvar is not r	equired:	Yes No	☐ 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-lieu fee program.					
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 Concern (AEC)?	Yes	⊠ No	
2.	Project Information			<u> </u>		
2a.	Name of project:	Replacem	ent of Bridge No. 59 over the Sou	th Fork of the New	River on SR 1331	
2b.	County:	Watauga	County			
2c.	Nearest municipality / town:	Boone				
2d.	Subdivision name:	not applica	able			
2e.	NCDOT only, T.I.P. or state project no:	B-4836				
3.	Owner Information					
3a.	Name(s) on Recorded Deed:	North Care	olina Department of Transportation	1		
	Deed Book and Page No.	not applica	able			
3c.	Responsible Party (for LLC if applicable):					
3d.	Street address: 1598 Mail Service Center					
3e.	. City, state, zip: Raleigh, NC 27699-1598					
3f.	Telephone no.:	(919) 707-	6103			
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 applicabl	е			
1b.	Site coordinates (in decimal degrees):	Latitude: 36.2 (DD.DDI		Longitude: - 81.6210 (-DD.DDDDDD)		
1c.	Property size:	2.1 acres				
2.	Surface Waters					
2a.	Name of nearest body of water (stream, river, etc.) to proposed project:	South Fork o	f the New River	-		
2b.	Water Quality Classification of nearest receiving water:	C+				
2c.	River basin:	New				
3.	Project Description					
3a.	Describe the existing conditions on the site and the general land use in the vicinity of the project at the time of this application:Land use in the project area is generally forested with several small fields on the west side of SR 1331.					
3D.	b. List the total estimated acreage of all existing wetlands on the property:0.06					
3c.	List the total estimated linear feet of all existing streams (interm 3,500	nittent and pere	nnial) on the pr	operty:		
3d.	Explain the purpose of the proposed project:					
	To replace a structurally deficient bridge (sufficiency rating of a geometry of 2 out of 9).	46.1 out of 100)	/ functionally o	bsolete bridge (deck		
3e.	Describe the overall project in detail, including the type of equi The project involves replacing a 153-foot bridge with a 217-foo structure. Traffic will be maintained on-site using the existing leading to the contract of	ot, 4-span bridg	e on new alignr			
	equipment, such as trucks, dozers, and cranes will be used.					
4.	Jurisdictional Determinations	T				
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: JD Site visit conducted June 17, 2011.	⊠ Yes	□No	Unknown		
4b.	If the Corps made the jurisdictional determination, what type of determination was made?	☐ Preliminar	y 🔲 Final			
4c.	If yes, who delineated the jurisdictional areas? Name (if known): Jason Dilday	Agency/Cons Other:	ultant Company	r: NCDOT-NES		
4d.	If yes, list the dates of the Corps jurisdictional determinations of NCDWQ Determination dated September 21, 2011. JD package time of permitting.					
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 Impacts Inventory								
1. Impacts Summ	nary							
1a. Which sections	were completed b	elow for your project	(check all that	apply):				
☑ Wetlands	🛛 :	Streams - tributaries	Bι	uffers				
☐ Open Water	s 🔲	Pond Construction						
2. Wetland Impac	:ts							
If there are wetland	impacts proposed	on the site, then com	plete this ques	tion for each wetland	area impacted	l		
2a.	2b.	2c.	2d.	2e.	1: -4:	2f.		
Wetland impact number –	Type of impact	Type of wetland	Forested	Type of juriso (Corps - 404	1, 10	Area of impact		
Permanent (P) or Temporary (T)		(if known)		DWQ – non-404	4, other)	(acres)		
Site 1 P T			☐ Yes ☐ No	☐ Corps ☐ DWQ				
Site 2 ⊠ P □ T	fill	non-tidal FW	Yes	☑ Corps		0.06		
	""	marsh	⊠ No □ Yes	DWQ				
Site 3 P T			☐ Yes	☐ Corps ☐ DWQ				
Site 4 P T P T Corps No DWQ								
Site 5 P T			Yes	Corps				
Site 5 L F L I			□ No	DWQ				
Site 6 P T			│	☐ Corps ☐ DWQ				
				2g. Total wetla	nd impacts	0.06 Permanent		
2h. Comments: Per	June 17, 2011 JD	site visit, mitigation w	vill not be requir	red for impacts to wet	and, per USA	CE.		
3. Stream Impacts If there are perennia question for all strea	l or intermittent str	ream impacts (includi	ng temporary ir	npacts) proposed on t	the site, then o	complete this		
3a.	3b.	3c.	3d.	3e.	3f.	3g.		
Stream impact number -	Type of impact	Stream name	Perennial (PER) or	Type of jurisdiction	Average stream	Impact length (linear feet)		
Permanent (P) or			intermittent	(Corps - 404, 10	width	(
Temporary (T)			(INT)?	DWQ – non-404, other)	(feet)			
Site 1 ⊠ P □ T	bank	South Fork New	⊠ PER	⊠ Corps	80	63		
Site 1 ☐ P ☑ T	stabilization	River South Fork New	☐ INT ☐ PER	☐ DWQ ☐ Corps	80	65		
Site I L P M I	work pads	River	☐ INT	☐ DWQ	00	65		
Site 2 ⊠ P □ T	fill	UT to South Fork New River	☐ PER ☐ INT	⊠ Corps □ DWQ	3	158		
Site 2 ⊠ P □ T	bank stabilization	UT to South Fork New River	☐ PER ☑ INT	☐ Corps☐ DWQ	3	16		
Site 5 P T			☐ PER☐ INT	☐ Corps☐ DWQ				
Site 6 P T			☐ PER ☐ INT	☐ Corps ☐ DWQ				
	3h Total stream and tributary impacts 237 Perm							
3i. Comments:	******					65 Temp		

4. Open	4. Open Water Impacts									
		ed impacts to lakes dually list all open v				ries, sound	s, the Atlanti	c Ocean,	or any other o	pen water of
4a.		4b.	4c.			4d.		4e.		
Open v impact nu		Name of waterbody		Tvn	e of impac	t	Waterboo	lv tvne	Area of im	pact (acres)
Permanent (P) or (if applicable)			.,,,,	o or impao	•	Water Bee	., .,,,	7 0	,pub. (ub. 00)	
Temporary (T) O1 P T										
	片									
		 							<u> </u>	
4f. Total open water impacts X Permanent X Temporary										
4g. Comm	4g. Comments:									
5. Pond	5. Pond or Lake Construction									
If pond or		struction proposed,	then cor	nplete	the chart b	elow.				
5a.	5b.		5c.				5d.			5e.
Pond ID	Pro	posed use or	VV	etland Impacts (acres) Stream Impac		cts (feet) Upland (acres)				
number	pur	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?			ed?	□ Y	es	☐ No	If yes, perr	nit ID no:		
5i. Expec	ted pond	surface area (acres	s):							
5j. Size o	f pond wa	atershed (acres):								
5k. Metho	d of cons	truction:								

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

D. Impact Justification and Mitigation					
Avoidance and Minimization					
1a. Specifically describe measures taken to avoid or minimize	the proposed impacts	in designing project.			
The proposed bridge is 54 feet longer than the existing bridge; Design Standards in Sensitive Watersheds will be implemented; 2:1 slopes will be utilized where practicable (see Plans); and there will be no riprap in the channel of the South Fork New River, just along the banks. Public access and parking for anglers has been maintained and NCDOT has incorporated canoe access into the project design.					
1b. Specifically describe measures taken to avoid or minimize the proposed impacts through construction techniques.					
The temporary work pads installed one one bank of the So temporary work pads on the opposite bank.	outh Fork New River wi	III be removed before installation of			
2. Compensatory Mitigation for Impacts to Waters of the	U.S. or Waters of the	State			
Pa. Does the project require Compensatory Mitigation for impacts to Waters of the U.S. or Waters of the State? ✓ Yes If no, explain:					
2b. If yes, mitigation is required by (check all that apply):	☑ DWQ ☐ Co	orps			
If yes, which mitigation 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			
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:	174 linear feet				
4c. If using stream mitigation, stream temperature:	☐ warm	ol			
4d. Buffer mitigation requested (DWQ only):	square feet				
4e. Riparian wetland mitigation requested:	NA acres				
4f. Non-riparian wetland mitigation requested:	acres				
4g. Coastal (tidal) wetland mitigation requested:	acres				
4h. Comments: Mitigation was not requested, nor is it required, for streambank stabilization along the South Fork New River (SFNR), as bank stabilization does not require fill in the stream bed; therefore, under Section 404 of the CWA, does not constitute Loss of Waters of the US and is not subject to compensatory mitigation. Bank stabilization is necessary to prevent erosion and sedimentation.					
Mitigation is required by NCDWQ, and has been obtained, for the SFNR, as the combined impacts to the UT exceed 150 linear festabilization to the UT to SFNR).	eet (158 LF of impact fr	om fill and 16 LF of streambank			
Pursuant to a 6/17/2011 site visit, the USACE is not requiring m of function), nor for impacts to the wetland (due to limited function)		impacts to the UT to SFNR (due to lack			
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 I	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 Uses Uses Uses Uses Uses Uses Uses U							
	nen identify the square feet of mitigation required.	f impact to each zone	of the riparian buffer th	nat requires mitigation. Calculate the			
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	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.	☐Yes	□No		
	Comments: If required from 1a, see attached buffer permit drawings.	Li fes	□ NO		
2.	Stormwater Management Plan				
2a.	What is the overall percent imperviousness of this project?	N/A			
2b.	Does this project require a Stormwater Management Plan?	⊠ Yes	□No		
2c.	If this project DOES NOT require a Stormwater Management Plan, explain why:				
2d.	2d. If this project DOES require a Stormwater Management Plan, then provide a brief, narrative description of the plan: See attached permit drawings.				
2e.	Who will be responsible for the review of the Stormwater Management Plan?		cal Government water Program nit		
3.	Certified Local Government Stormwater Review				
За.	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		
	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	nties w 2006-246		
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			
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)					
За.	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 impmost 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.	4. Sewage Disposal (DWQ Requirement)					
4a.	4a. Clearly detail the ultimate treatment methods and disposition (non-discharge or discharge) of wastewater generated from the proposed project, or available capacity of the subject facility. not applicable					

5.	Endangered Species and Designated Critical Habitat (Corps Requirement)							
5a.	Will this project occur in or near an area with feder habitat?	ally protected species or	⊠ Yes	□No				
5b.	Have you checked with the USFWS concerning Er impacts?	ndangered Species Act	Yes	⊠ No				
5c.	If yes, indicate the USFWS Field Office you have o	ontacted.	☐ Raleigh					
5d.	What data sources did you use to determine wheth Habitat?	er your site would impact E	ndangered Species or	Designated Critical				
	On-site surveys, NHP and USFWS websites. Habitat is present for only one species, the bog turtle, and no biological conclusion is required fo rthe bog turtle.							
6.	Essential Fish Habitat (Corps Requirement)							
6a.	6a. Will this project occur in or near an area designated as essential fish habitat?							
6b.	What data sources did you use to determine whether your site would impact Essential Fish Habitat? NMFS County Index							
7.	Historic or Prehistoric Cultural Resources (Cor	ps 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 ☐ No							
7b.	What data sources did you use to determine wheth NEPA Documentation	er your site would impact his	storic or archeological	resources?				
8. F	Flood Zone Designation (Corps Requirement)							
8a.	Will this project occur in a FEMA-designated 100-ye	ear floodplain?	⊠ Yes	□No				
8b.	If yes, explain how project meets FEMA requirement	ts: NCDOT Hydraulics Unit	coordination with FEN	1A				
8c.	What source(s) did you use to make the floodplain of	determination? FEMA Maps						
	Dr. Gregory J. Thorpe, Ph D Applicant/Agent's Printed Name Applicant/Agent's Signature (Agent's signature is valid only if an authorization letter from the applicant is provided.)							



March 14, 2012

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

Dear Dr. Thorpe:

Subject: EEP Mitigation Acceptance Letter:

B-4836, Replace Bridge Number 59 on SR 1331 over the South Fork of the New River, Watauga County

The purpose of this letter is to notify you that the Ecosystem Enhancement Program (EEP) will provide the compensatory stream mitigation for the subject project. Based on the information supplied by you on March 12, 2012, the impacts are located in CU 05050001 of the New River basin in the Northern Mountains (NM) Eco-Region, and are as follows:

New		Stream			Wetlands		Buffer	(Sq. Ft.)
05050001 NM	Cold	Cool	Warm	Riparian	Non- Riparian	Coastal Marsh	Zone 1	Zone 2
Impacts (feet/acres)	0	174	0	0	0	0	0	0

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

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

Sincerely,

Michael Ellison EEP Deputy Director

and Starfell for

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

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

File: B-4836







North Carolina Department of Transportation Highway Stormwater Program STORMWATER MANAGEMENT PLAN

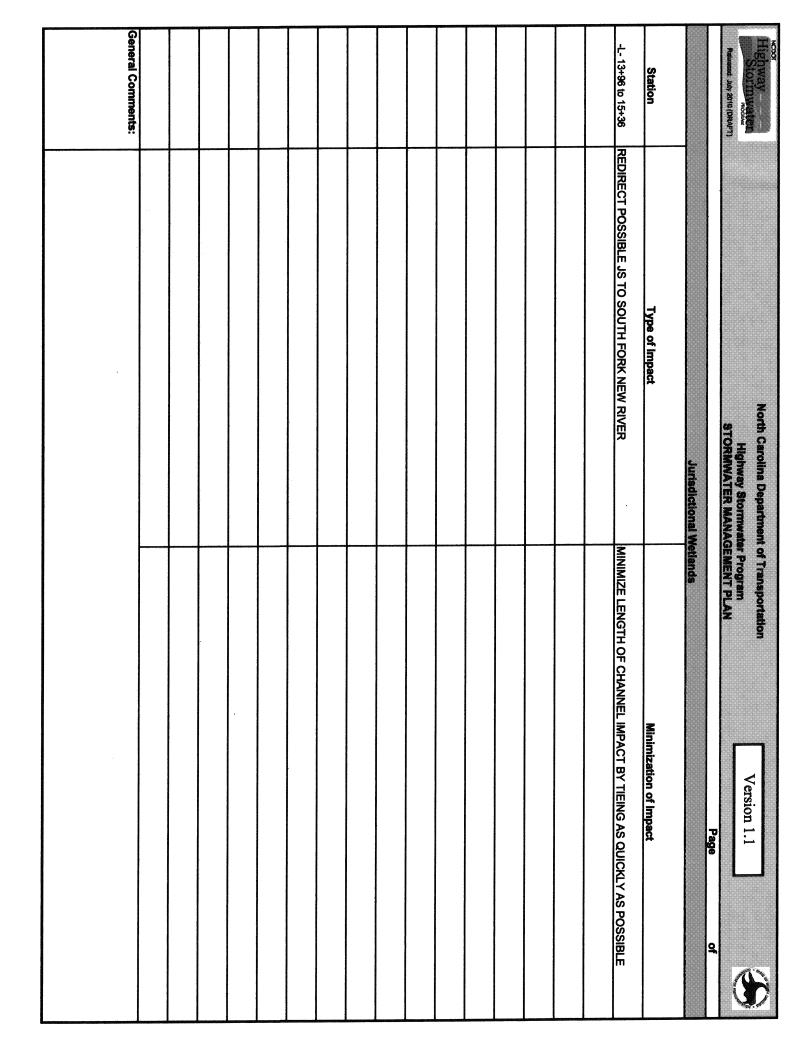
Version 1.1

(6)

				Page	of.
	General Project In	formation			
B-4836		Date:		11-May-11	
BOONE		Designer:		PA/DDC	
Watauga County		Project Manager:		JWT	
New		CAMA County?	М	TVA County?	no
	/ River	NCDWQ Stream Index:		10-1-(3.5)	
NCDWQ Surface Water Classification for Primary Receiving Water	Primary: (C+)	Class C			
	Supplemental:				
ಗಾ	Type(s) of Impairment:				
3	If yes, why?				
red Species?		ത			
no					
ത		Buffer Rules:			
	Existing S	8			
BRIDGE NO. 59 OVER T	THE SOUTH FORK OF THE		GREENE RD)		
ADT 2013 = 115					
24' WIDE GRAVEL ROA		EXISTING BRIDGE: GRAVEL SUR	FACE, 1 LANE, 11.2	FT. CURB-TO-CURE	3
WOODED MOUNTAINS	IDE or FIELD/CROPLAND				
	Project Desci	ription			
REALIGN ROADWAY IN ALIGNMENT, & REMOV	MEDIATELY UPSTREAM E EXISTING BRIDGE. IMP	OF EXISTING CROSSING. CONS PROVE (1) -Y- ALIGNMENT & POS	TRUCT NEW BRIDG SIBLY ADD A CANO	E, SHIFT TRAFFIC 1 E ACCESS PARKING	O PROPOSED
ADT 2033 = 192					
(2) 9 FT. LANES w/ 4 FT	to 9 FT. SHOULDERS ON	ΙΞ.	WITH 2 FT. SHOUL	DERS ON -Y- ALIGN	MENT.
8					
APPROX. 300' SOUTH (OF S. FORK OF THE NEW	RIVER TOWARD SR 1391.			
APPROX. 554' NORTH (OF S. FORK OF THE NEW	RIVER TOWARD SR 1356.			
0.160 MI.	responses constituent en barron response area describantes característicos de presidentes de porte de porte de	Added Impervious Area (ac.):	0.3+/-		
uda ta'a guda PayPen					
	Project No.: B-4836	Receiving Water New River Receiving Water Now River Receiving Water Supplemental: no Type(s) of Impairment: no If yes, why? red Species? Red Species Red Speci	General Project Information Date: Designer: Designer: CAMA County? New River Project Manager: CAMA County? CAMA County? New River NCDWQ Stream Index: Project Manager: CAMA County? Class C Class C	General Project Information Date: Designer: Designer: Project Manager: CAMA County? New River NCDWQ Stream Index: Project Manager: CAMA County? New River NCDWQ Stream Index: Project Manager: CAMA County? Class C Cl	Ceneral Project Information Date: Date:

General Comments: -L- 12+76 to 14+91 -L- 13+96 to 15+36 Reterred July 2010 (DRAFT) Station SOUTH FORK NEW RIVER (POSSIBLE JS) UT Stream Name Stream Type Perennial Riparian Buffer and Jurisdictional Stream impacts and Associated SCMs RPW Jurisdict. Stream Buffer? Highway Stormwater Program STORMWATER MANAGEMENT PLAN ₹ 중 **Environmental Summary** Classific-ation? Class C 1@45', 1@70', 2@50' 24" CORED SLAB Proposed Structure Checklist SCM Type | Complete? | DA (ac.) 8 8 Version 1.1 Page 71.6 SQ. MI. (ft³/s) Ω₁₀ 잋 (1°, **2**°,

North Carolina Department of Transportation



					>	VETLAND	WETLAND PERMIT IMPACT SUMMARY	ACT SUM	MARY				
					WET	WETLAND IMPACTS	CTS			SURFACE	SURFACE WATER IMPACTS	ACTS	
	-		CAMA	404	ŀ	L		Hand			Existing	Existing	
Site	Station	Structure	Fill In	Fill In	G III	Excavation	Excavation Mechanized in Clearing	Clearing	Permanent SW	Temp.	Channel	Channel	Natural Stream
ģ	(From/To)	Size / Type	Wetlands	Wetlands	Wetlands	Wetlands	.⊑	Wetlands	impacts	impacts	Permanent		Design
			(ac)	(ac)	(ac)	(ac)	(ac)	(ac)	(ac)	(ac)	Œ		€
-	-L- STA 13+15 TO	BRIDGE								100		01	
	-L- STA 14+07									3		8	
-	-L- STA 13+07 TO	BANK STABILIZATION									63		
	-L- STA 14+12												
2	-L- STA 13+95 TO	BRIDGE		90.0					\$0.04		158		
	-L- STA 15+52												
7	-L-STA 15+37 TO	BANK STABILIZATION									16		
	-L- STA 15+52												
1													
TOTALS:	.S:		0.00	90.0	0.00	0.00	000	000	<0.01	0.05	237	58	c
													,

N.C.D.O.T.
DIVISION OF HIGHWAYS
WATAUGA COUNTY
PROJECT: 38606.1.1 (B-4836)
BRDGE NO. 59 OVER
THE SOUTH FORK OF THE
NEW RIVER ON SR 1331

Permit Drawing Sheet of S

(03/07/2012)

SHEET 8 OF 8

PROPERTY OWNERS

NAMES AND ADDRESSES

PARCEL NO.

NAMES

ADDRESSES

2 Blackburn Charles

675 Tracy Circle Boone NC 28607

Permit Drawing Sheet 2 of 8

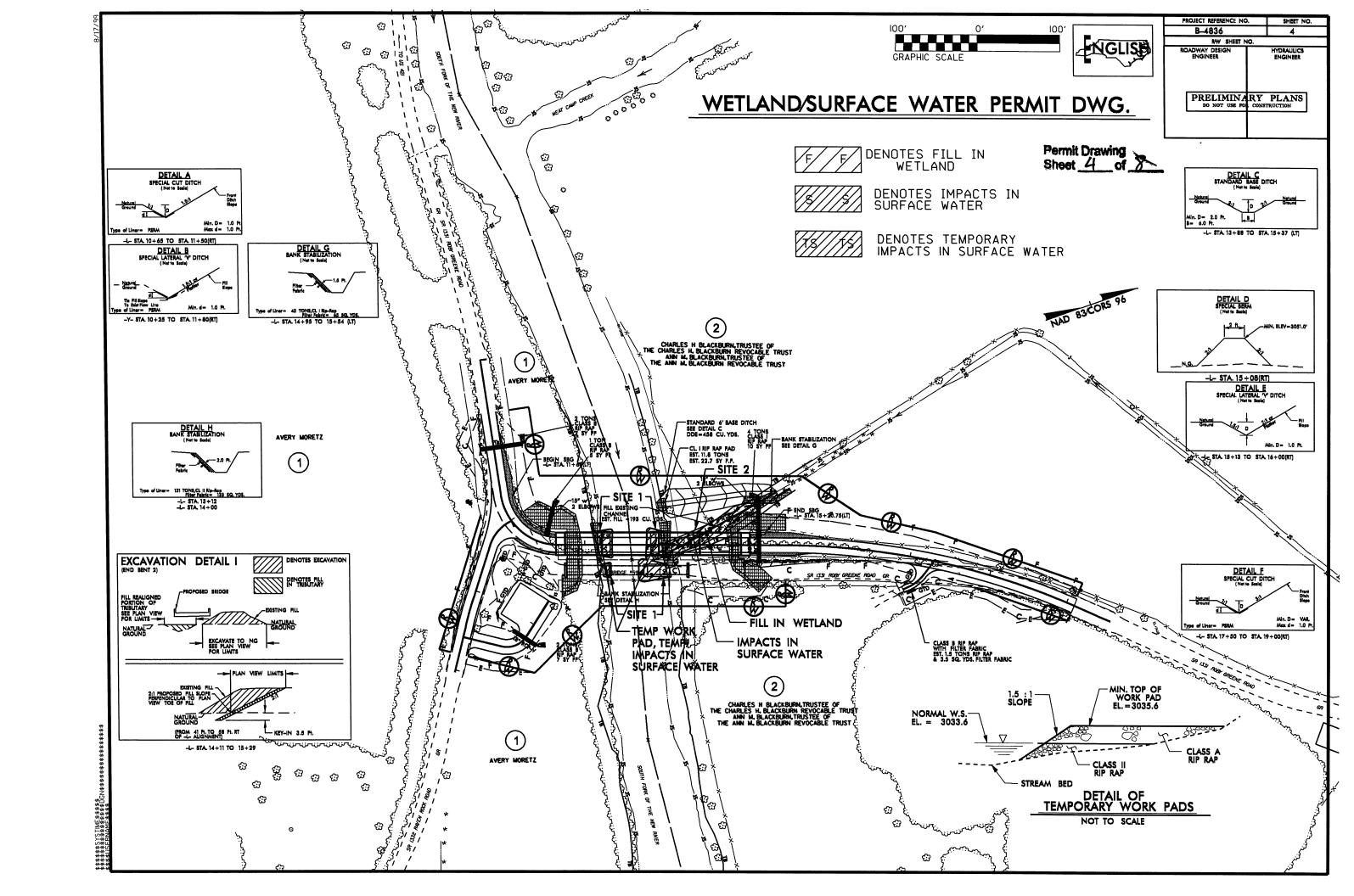
NCDOT

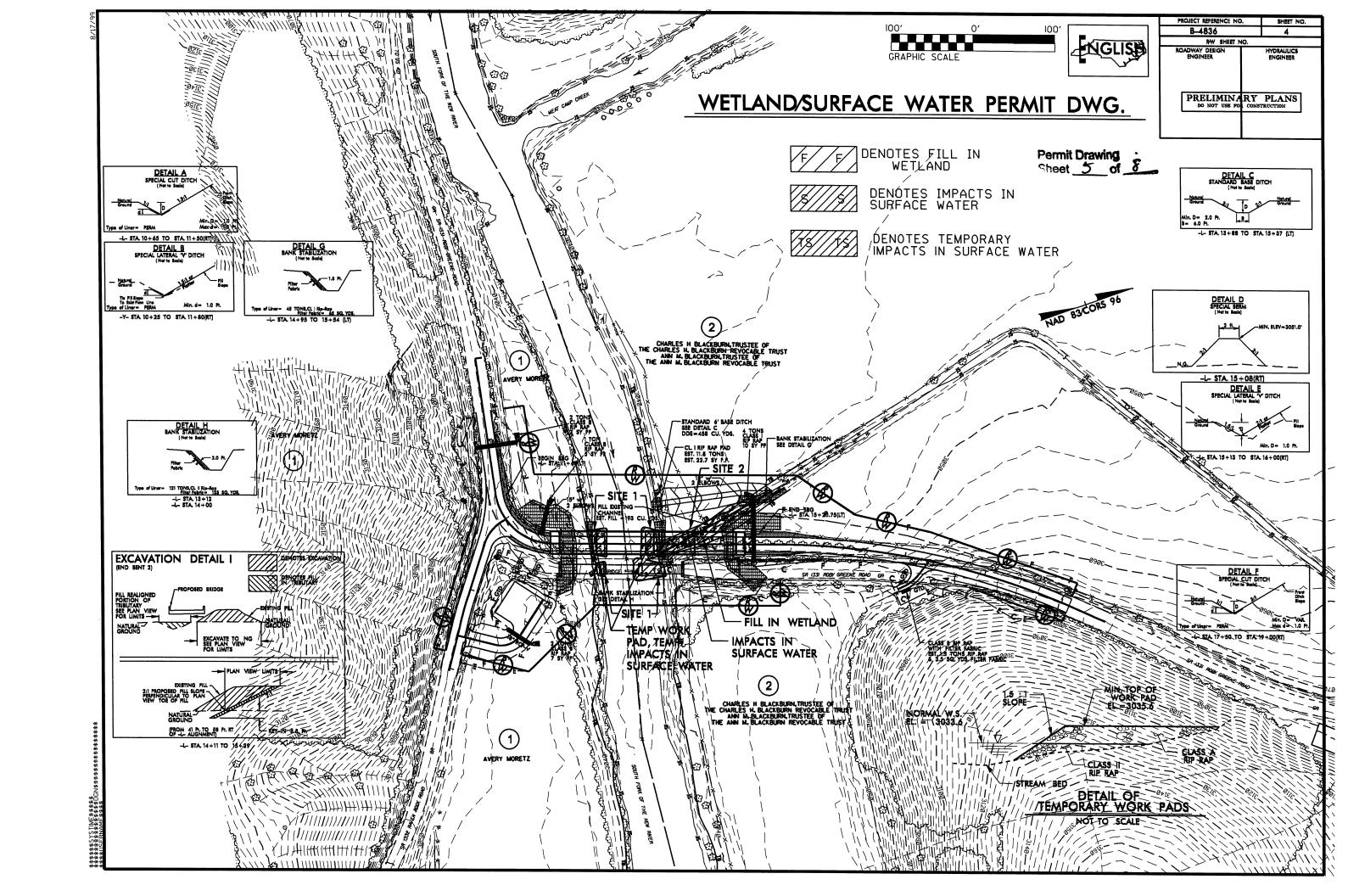
DIVISION OF HIGHWAYS
CATAWBA COUNTY
PROJECT: 38606.1.1 (B-4836)
BRIDGE NO. 59 OVER THE
SOUTH FORK OF THE
NEW RIVER ON SR 1331

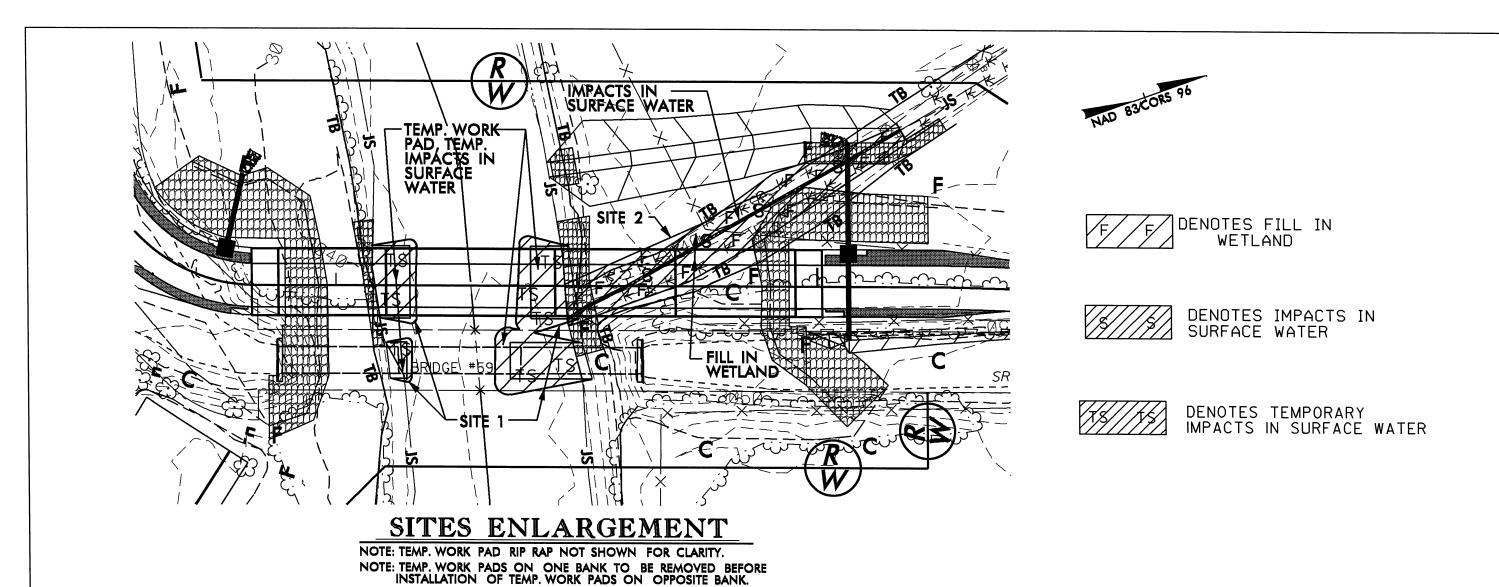
SHEET 7 OF 8

02/16/12

See Sheet 1-A For Index of Sheets See Sheet 1-B For Conventional Symbols STATE OF NORTH CAROLINA SHRET NO. NGLISE B-4836 1 DIVISION OF HIGHWAYS 38606.1.1 BRZ-1331(12) BRZ-1331(12) RW & UTIL. WATAUGA COUNTY 4836 LOCATION: BRIDGE NO. 59 OVER THE SOUTH FORK Permit Drawing Sheet _____ of _____ OF THE NEW RIVER ON SR 1331 TYPE OF WORK: GRADING, PAVING, DRAINAGE, AND STRUCTURE PROJECT: **PLANS** WETLAND/SURFACE WATER PERMIT DWG. ROW BEGIN BRIDGE -L- STA. 12 + 74.81 VICINITY MAP N.T.S END BRIDGE -L- STA. 14+92.19 SITE 2 END TIP PROJECT B-4836 -L- STA, 19 + 10,00 **BEGIN TIP PROJECT B-4836** -L-STA.10+65.00SR 1331 (ROBY GREENE RD) SITE ' -DR-THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES. PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION CLEARING ON THIS PROJECT SHALL BE PREFORMED TO THE LIMITS ESTABLISHED BY METHOD III. HYDRAULICS ENGINEER GRAPHIC SCALES DESIGN DATA PROJECT LENGTH Prepared in the Office of: **DIVISION OF HIGHWAYS** ADT 2013 = 1151000 Birch Ridge Dr., Raleigh NC, 27610 ADT 2033 = 195 LENGTH OF ROADWAY TIP PROJECT B-4836 = 0.109 MI 2012 STANDARD SPECIFICATIONS DHV = 10 %D = 60 %LENGTH OF STRUCTURES TIP PROJECT B-4836 = 0.041 MI RIGHT OF WAY DATE: T = 5 %BRENDA MOORE, PE ROADWAY DESIGN V = 20 MPH**DECEMBER 19,2011 ENGINEER** PROFILE (HORIZONTAL) * (TTST = 2% + DUAL 3%) TOTAL LENGTH OF TIP PROJECT B-4836 = 0.160 MI FUNC CLASS = RURAL LETTING DATE: TATIA L. WHITE, PE LOCAL JANUARY 15, 2013 PROFILE (VERTICAL) SUBREGIONAL TIER







CLASS A

RIP RAP

FILTER FABRIC

MIN. TOP OF

WORK PAD EL. = 3035.6

MN.

CLASS II RIP RAP

DETAIL OF

NOT TO SCALE

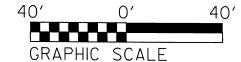
TEMPORARY WORK PADS

1.5 : 1 -SLOPE

STREAM BED

NORMAL W.S.-

EL. = 3033.6

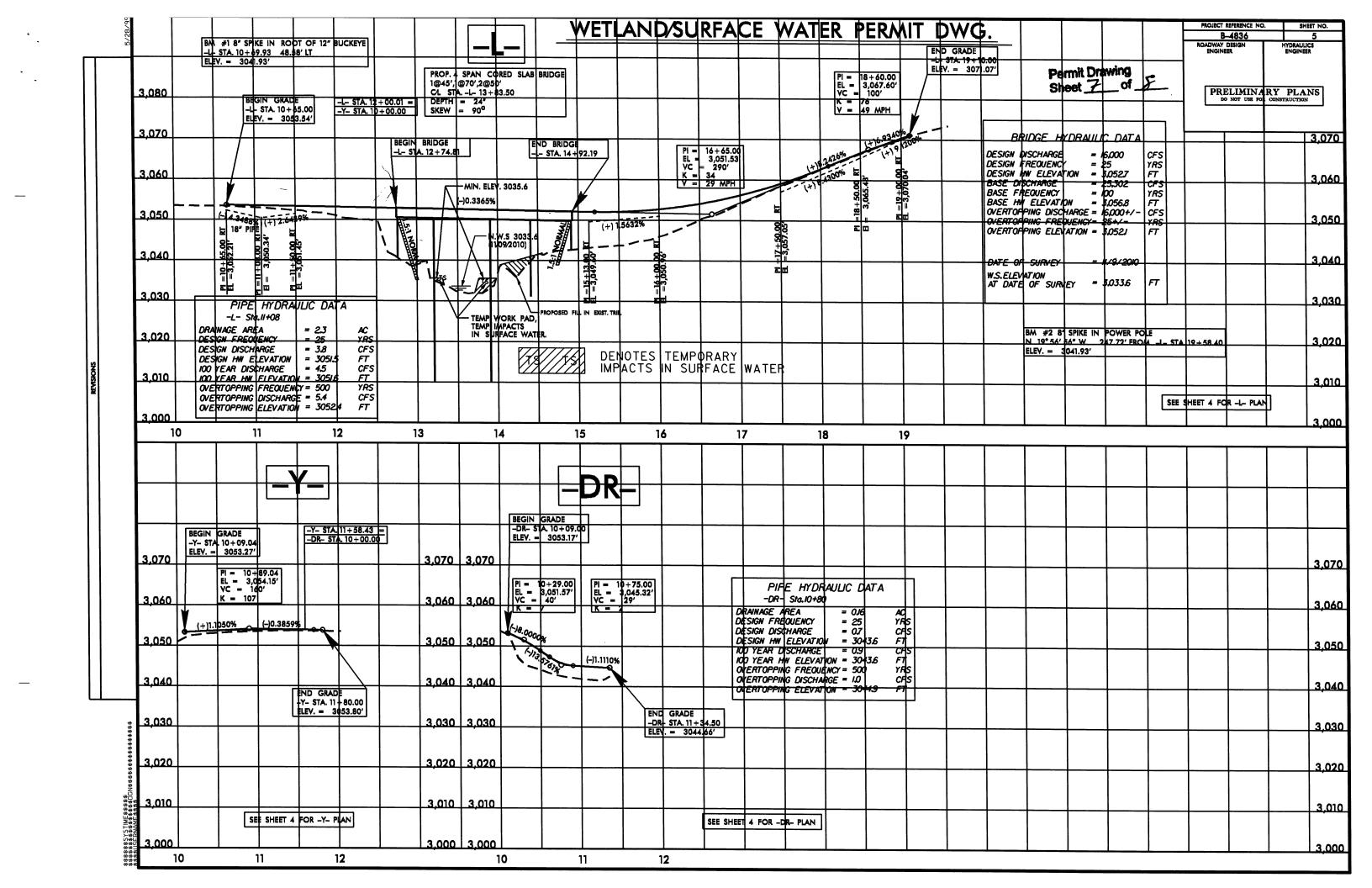


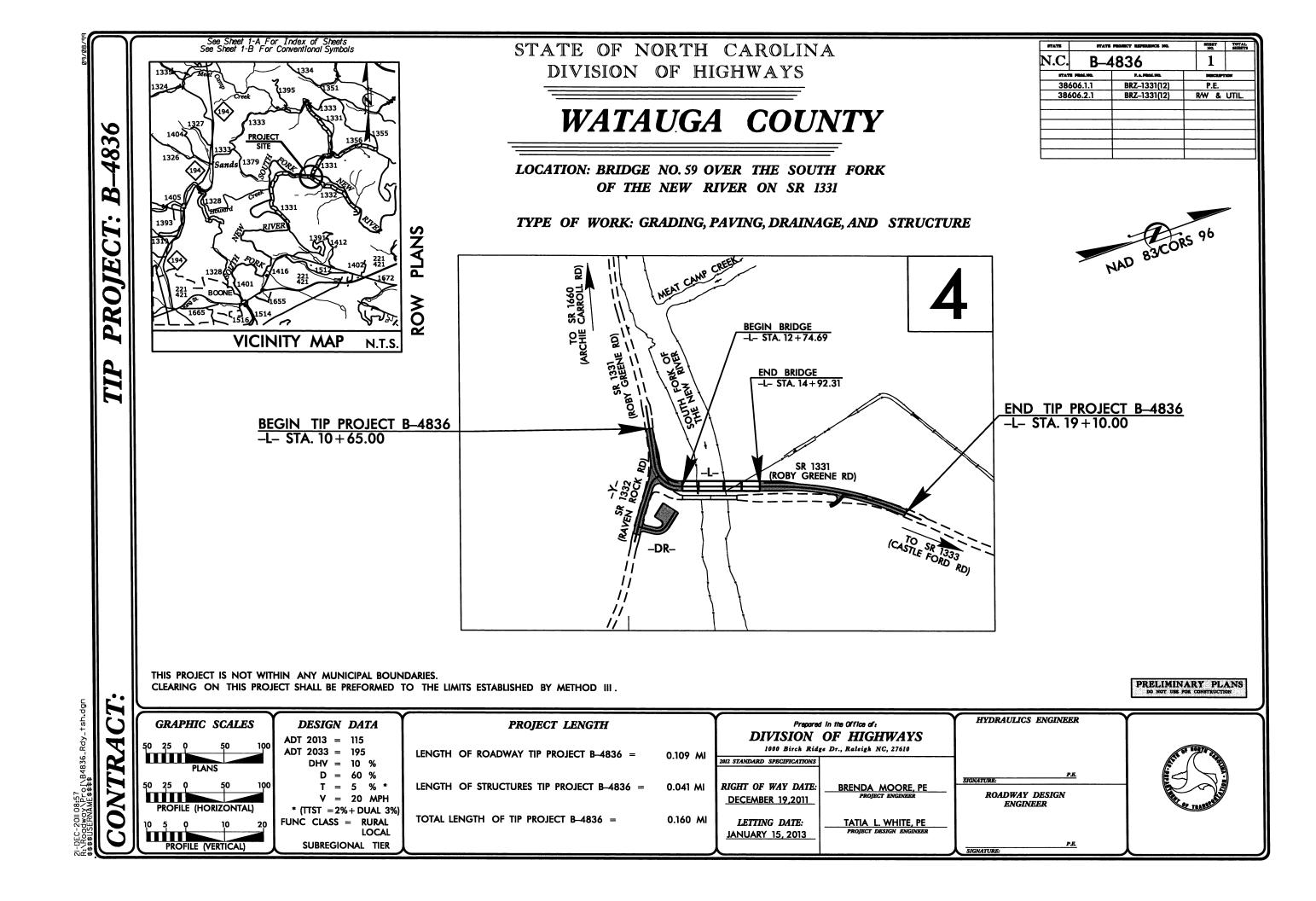
NCDOT

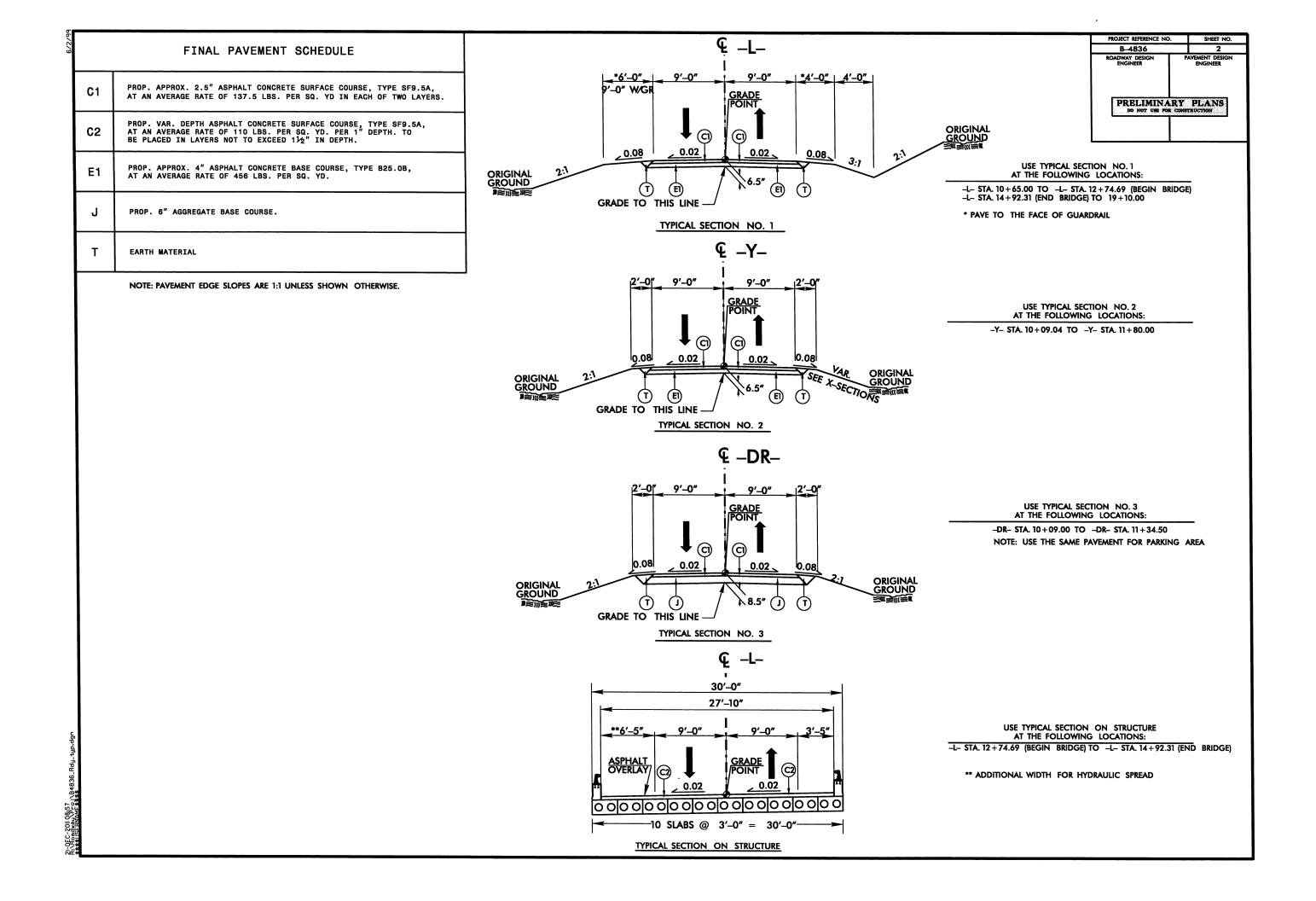
DIVISION OF HIGHWAYS
WATAUGA COUNTY
PROJECT: 38606.1.1 (B-4836)
BRIDGE NO. 59 OVER
THE SOUTH FORK OF THE
NEW RIVER ON SR 1331

SHEET 6 OF 8

02 // 16 // 12







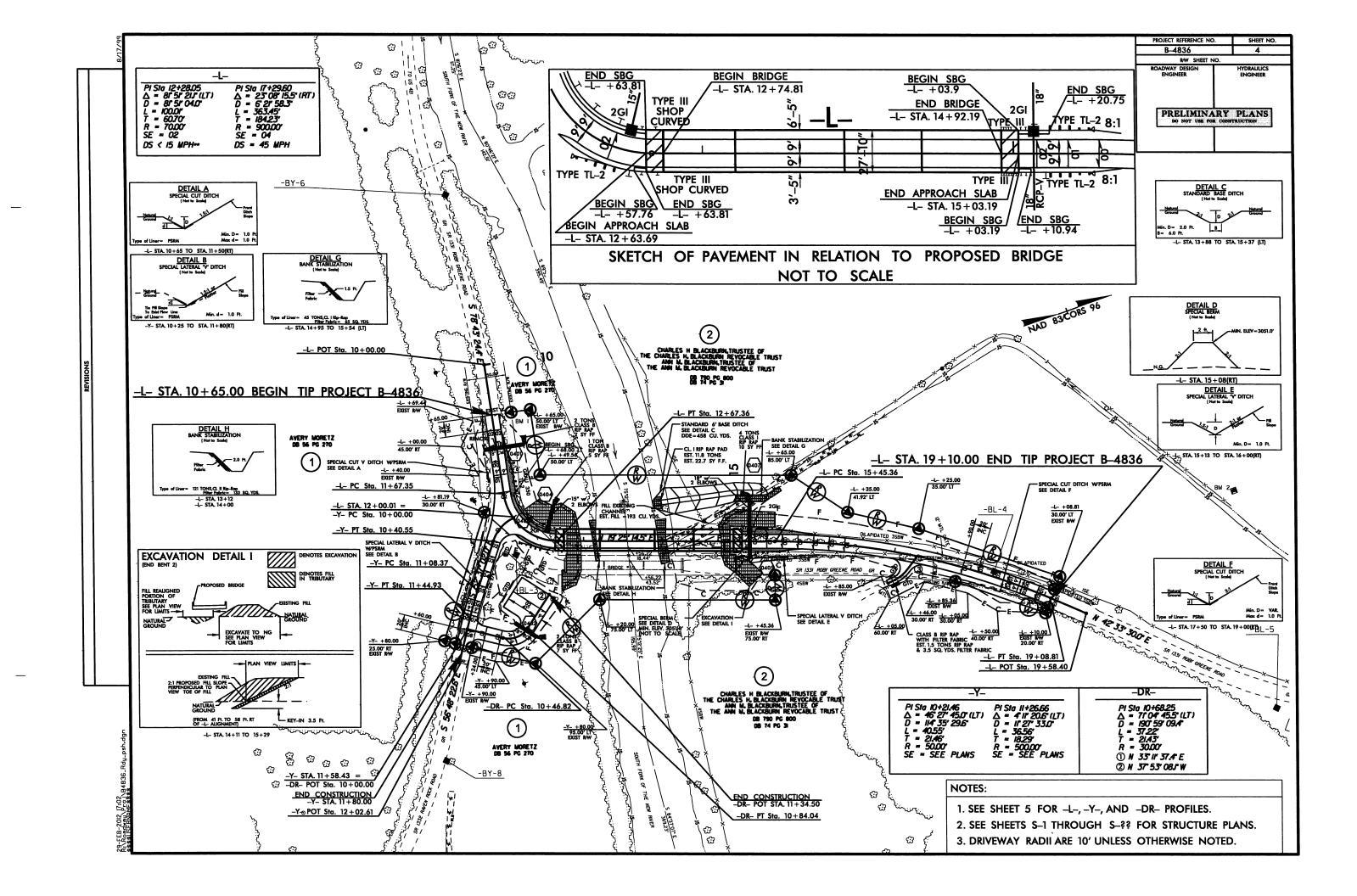
*S.U.E. = Subsurface Utility Engineering

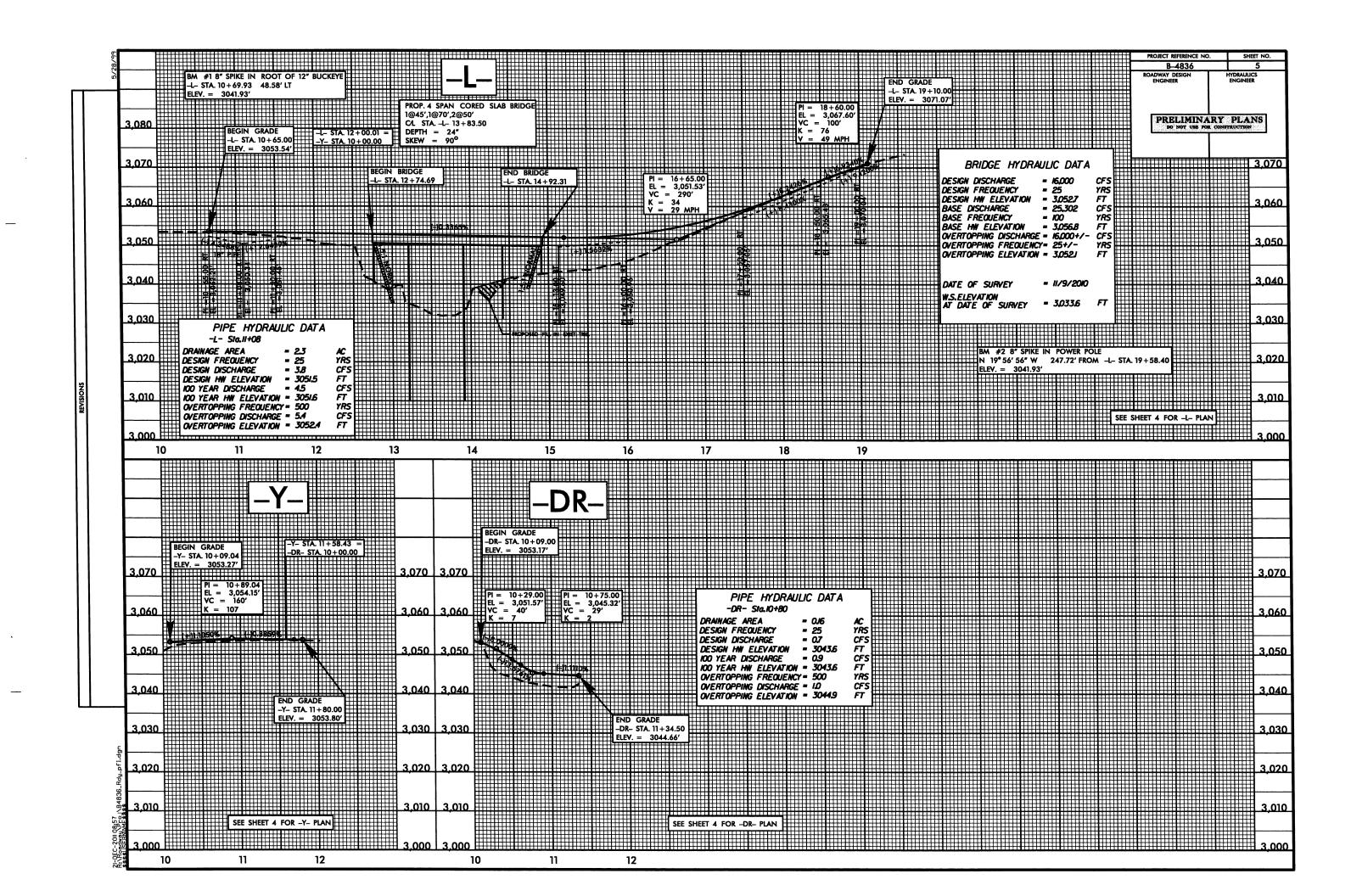
CONVENTIONAL PLAN SHEET SYMBOLS

State Line ————————————————————————————————————		
County Line ————————————————————————————————————		RAILROADS:
Township Line ————————————————————————————————————		Standard Gauge
City Line ————————————————————————————————————		RR Signal Milepost
Reservation Line		Switch
Property Line		RR Abandoned
Existing Iron Pin	Q	RR Dismantled
Property Corner ———————————————————————————————————		RIGHT OF WAY:
Property Monument		Baseline Control Point
Parcel/Sequence Number		Existing Right of Way Marker
Existing Fence Line		Existing Right of Way Line
Proposed Woven Wire Fence —————		Proposed Right of Way Line
Proposed Chain Link Fence		Proposed Right of Way Line with
Proposed Barbed Wire Fence		Iron Pin and Cap Marker
Existing Wetland Boundary		Proposed Right of Way Line with
Proposed Wetland Boundary —————		Concrete or Granite RW Marker Proposed Control of Access Line with
Existing Endangered Animal Boundary ———		Concrete C/A Marker
Existing Endangered Plant Boundary ————		Existing Control of Access
Known Soil Contamination: Area or Site		Proposed Control of Access —
Potential Soil Contamination: Area or Site	121	Existing Easement Line
BUILDINGS AND OTHER CULTU	000	Proposed Temporary Construction Easemer
		Proposed Temporary Drainage Easement—
Gas Pump Vent or U/G Tank Cap	0	Proposed Permanent Drainage Easement —
Well	© ©	Proposed Permanent Drainage / Utility Ease
	=	Proposed Permanent Utility Easement
Small Mine Foundation	*	Proposed Temporary Utility Easement ——
Area Outline		Proposed Aerial Utility Easement
		•
Cemetery		Proposed Permanent Easement with Iron Pin and Cap Marker
Building —		ROADS AND RELATED FEAT
School ————	\rightleftharpoons	Existing Edge of Pavement
Church —	4	Existing Curb
Dam		Proposed Slope Stakes Cut
HYDROLOGY:		Proposed Slope Stakes Fill
Stream or Body of Water ————————————————————————————————————		Proposed Curb Ramp
Hydro, Pool or Reservoir		Existing Metal Guardrail
Jurisdictional Stream		Proposed Guardrail
Buffer Zone 1 ———————————————————————————————————		Existing Cable Guiderail
Buffer Zone 2 ———————————————————————————————————		Proposed Cable Guiderail
Flow Arrow		Equality Symbol
Disappearing Stream ————>		Pavement Removal
	_	
Spring ————————————————————————————————————		
Spring ————————————————————————————————————	*	VEGETATION:
. •		Single Tree
Wetland	*	

Orchard —	8 8 8 8
WILEPOST 35 Vineyard	Vineyord
Switch	
EXISTING STRUCTURES:	
MAJOR:	
Bridge, Tunnel or Box Culvert	CONC
Bridge Wing Wall, Head Wall and End Wall –	CONC WW [
MINOR:	
Head and End Wall	CONC HW
Pipe Culvert	
Footbridge	>
Drainage Box: Catch Basin, DI or JB ———	Св
Paved Ditch Gutter	
Storm Sewer Manhole	S
Storm Sewer —	s
UTILITIES:	
POWER:	
Existing Power Pole ————————————————————————————————————	. •
Proposed Power Pole	6
Existing Joint Use Pole	
Proposed Joint Use Pole	_
Power Manhole	· ®
Power Line Tower	. 🛛
Power Transformer	
U/G Power Cable Hand Hole	
H-Frame Pole	. •••
Recorded U/G Power Line	P-1
Designated U/G Power Line (S.U.E.*)	
TELEPHONE:	
Existing Telephone Pole	· - • -
Proposed Telephone Pole	- o -
Telephone Manhole	- o
Telephone Booth	- 3
Telephone Pedestal ————————————————————————————————————	- 🗖
Tolonhono Coll Tower	- "
/	
Recorded U/G Telephone Cable	
Designated U/G Telephone Cable (S.U.E.*)—	
, , ,	
Designated U/G Telephone Conduit (S.U.E.*)	
Recorded LVG Fiber Ontics Cable	
Designated U/G Fiber Optics Cable (S.U.E.*)	T F0
posignates and ribor opines cubic (5.0.L.)	

WATER:	
Water Manhole	(a)
Water Meter ————	0
Water Valve	8
Water Hydrant ——————	•
Recorded U/G Water Line	
Designated U/G Water Line (S.U.E.*)	
Above Ground Water Line	
TV:	
TV Satellite Dish	K
TV Pedestal ————	
TV Tower	\otimes
U/G TV Cable Hand Hole	<u> </u>
Recorded U/G TV Cable	
Designated U/G TV Cable (S.U.E.*)	
Recorded U/G Fiber Optic Cable ———	
Designated U/G Fiber Optic Cable (S.U.E.*)—	
GAS:	
Gas Valve	♦
Gas Meter	•
Recorded U/G Gas Line	
Designated U/G Gas Line (S.U.E.*)	
Above Ground Gas Line	A/G Gas
SANITARY SEWER:	
Sanitary Sewer Manhole	•
Sanitary Sewer Cleanout ————————————————————————————————————	
U/G Sanitary Sewer Line	
Above Ground Sanitary Sewer	
Recorded SS Forced Main Line	
Designated SS Forced Main Line (S.U.E.*) —	
MISCELLANEOUS:	
Utility Pole —————	. •
Utility Pole with Base	. 🖸
Utility Located Object	. 0
Utility Traffic Signal Box	- 5
Utility Unknown U/G Line	
U/G Tank; Water, Gas, Oil ——————	
Underground Storage Tank, Approx. Loc. ——	- (us f)
A/G Tank; Water, Gas, Oil	
Geoenvironmental Boring —	-
U/G Test Hole (S.U.E.*)	_
Abandoned According to Utility Records —	_
End of Information —————	- FOI





0 5 10 PROJ. REFERENCE NO. SHEET NO.

B-4836 X-1

CROSS SECTION INDEX

_L _	X-2 TO X-8
Y	X-9 TO X-11
-DR-	X-12

