

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY
GOVERNOR

LYNDO TIPPETT SECRETARY

November 25, 2008

Mr. Bill Biddlecome U.S. Army Corps of Engineers Regulatory Field Office Post Office Box 1000 Washington, NC 27889-1000 Mr. Jim Hoadley
Division of Coastal Management
N. C. Dept. of Env. & Natural Resources
1367 U. S. Highway 17
Elizabeth City, NC 27909

Dear Sirs:

Subject: Nationwide 23 and 33 Permit Application, and CAMA Major Development Permit Application for the replacement of Bridge #14 over the Cashie River on US 17 in Bertie County, in Windsor. State Project No. 8.1010801. Federal Aid Project Number BRNHS-17(35). Debit \$400.00 from WBS 33700.1.1.TIP No. B-4434.

Please find enclosed the North Carolina Division of Coastal Management Major Permit Forms 1 and 5, PCN form, EEP acceptance letter, Stormwater permit, permit drawings, half-size plan sheets, utility narrative/drawings, and adjacent riparian landowner return receipts for the above referenced project. A Categorical Exclusion (CE) was completed for this project on February 25, 2004, and distributed shortly thereafter. Additional copies are available upon request. The North Carolina Department of Transportation (NCDOT), Division of Highways, in consultation with the Federal Highway Administration (FHWA), proposes to replace Bridge No. 14 in Bertie County, in Windsor.

Regulatory Approvals

<u>CAMA</u>: NCDOT requests that the proposed work be authorized under a Coastal Area Management Act Major Development Permit. The landowner receipts are provided with this permit application. Authorization to debit the \$400 Permit Application Fee from WBS Element 33700.1.1 is hereby given.

<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 a Nationwide Permit 23 authorize these activities. We are also requesting the issuance of a Nationwide Permit 33 for the temporary fill due to the installation of erosion control measures. (72 CFR; 11092-11198, March 12, 2007).

Section 401 Permit: We anticipate 401 General Certification numbers 3701 and 3688 will apply to this project. NCDOT is providing five copies of this application to the North Carolina

Department of Environmental and Natural Resources, Division of Water Quality, for their approval. NCDOT received a stormwater permit (SW7060619), dated August 9, 2006, from NCDWQ (attached).

A copy of this permit application 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 Mr. Chris Manley, at 919-715-1487.

Sincere

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

cc List:

W/attachment

Mr. Brian Wrenn, NCDWQ (5 Copies)

Ms. Cathy Brittingham, NCDCM

W/o attachment (see website for attachments)

Mr. Scott McLendon, USACE, Wilmington

Mr. Travis Wilson, NCWRC

Mr. Gary Jordan, USFWS

Mr. Ron Sechler, NMFS

Ms. Anne Deaton, NCDMF

Dr. David Chang, P.E., Hydraulics

Mr. Greg Perfetti, P.E., Structure Design

Mr. Mark Staley, Roadside Environmental

Mr. Victor Barbour, P.E., Project Services Unit

Mr. Anthony Roper, P.E., Division 1 Engineer

Mr. Clay Willis, Division 1 Environmental Officer

Mr. Jay Bennett, P.E., Roadway Design

Mr. Majed Alghandour, P. E., Programming and TIP

Mr. Art McMillan, P.E., Highway Design

Ms. Beth Harmon, EEP

Mr. Todd Jones, NCDOT External Audit Branch

Ms. Stacy Oberhausen, P.E., PDEA Project Planning Engineer

APPLICATION for Major Development Permit



(last revised 12/27/06)

North Carolina DIVISION OF COASTAL MANAGEMENT

1. Primary Applica	nt/ Landowner Inf	orm	ation					
Business Name			Project Name (if applicable)					
North Carolina Department Of Transportation				B-4434				
Applicant 1: First Name				Last Name			·	
Gregory		J.		Thorpe				
Applicant 2: First Name		МІ		Last Name				
		İ						
If additional applicants, plea	ase attach an additional pag	ge(s)	with names i	isted.				
Mailing Address				PO Box	City		State	
1598 Mail Service Cente	r				Raleig	jh	NC	
ZIP	Country		Phone No.		<u> </u>	FAX	No.	
27699	USA		919 – 715	- 1487 ext.		919 -	715 - 550	1
Street Address (if different t	rom above)		·	City	State	<u>,</u> _L	ZIP	
								-
Email					- 1			
<u> </u>								· · · · · · · · · · · · · · · · · · ·
2. Agent/Contract	or Information							
Business Name								
Agent/ Contractor 1: First N	lame	MI		Last Name				
Agent/ Contractor 2: First N	lame	МІ		Last Name		·····		
Mailing Address				PO Box	City			State
ZIP		Pho	ne No. 1		' 	Phone No. 2		
			-	- ext.		-	-	ext.
FAX No.		Cor	tractor#					
Street Address (if different t	rom above)	<u></u>		City	State		ZIP	
,	•							-
Email				I		····		

<Form continues on back>

3. Project Location						
County (can be multiple)	Street Address			· · · · · · · · · · · · · · · · · · ·	State Rd. #	
Bertie	US 17				US 17	
Subdivision Name		City		State	Zip	
N/A Winds			.	NC	•	
Phone No.		Lot No.(s) (if many, attack	h additional p	page with list)		
N/A - ext.	41		N/A, , ,	,		
In which NC river basin is the project Roanoke	t located?		b. Name of body of water nearest to proposed project			
c. Is the water body identified in (b) abo	ove natural or manma	ado?	d. Name the closest major water body to the proposed project site.			
Natural ☐Manmade ☐Unknow		aue:	Cashie River			
e. Is proposed work within city limits or)		nnina jurisdi	ction or city limit the proposed	
⊠Yes □No	,		work falls within.			
			N/A			
4. Site Description						
a. Total length of shoreline on the tract	(ft.)		b. Size of entire tract (sq.	ft.)		
350			0.242m Linear Road			
c. Size of individual lot(s)					ve NHW (normal high water) or	
N/A, , , (If many lot sizes, please attach add	litional page with a liet	1	NWL (normal water level) ☐NHW or ☐NWL			
e. Vegetation on tract	ilional page with a list,	<i></i>	Пип	144 OI 1444	<u> </u>	
Cypress-gum swamp and Maint	tained/Disturbed (co	ontaining v	arious grasses and wee	ds)		
gam enamp and mann		, inclining	anous grasses and mos	u 0,		
f. Man-made features and uses now or	n tract					
US 17 and Bridge No. 14						

g. Identify and describe the existing lar	nd uses <u>adjacent</u> to the	e proposed	project site.			
Commercial and residential						
h. How does local government zone th	e tract?		Is the proposed project co	nsistent with	the applicable zoning?	
N/A	o adot.	"	(Attach zoning compliance		· · ·	
1			⊠Yes □No □NA		,	
j. Is the proposed activity part of an urb	oan waterfront redevel	opment pro	posal?	□Yes	⊠No	
k. Has a professional archaeological a	ssessment been done	for the trace	t? If yes, attach a copy.	□Yes	⊠No □NA	
The trace of providence and the state of the		101 010 000	in you, allasir a copy.		die die	
If yes, by whom?						
Is the proposed project located in a National Register listed or eligible proposed.		istoric Distri	ct or does it involve a	□Yes	⊠No □NA	
National Register listed or eligible pr	operty?					
	. -					
	<form c<="" th=""><th>ontinues</th><th>on next page></th><th></th><th></th></form>	ontinues	on next page>			
m. (i) Are there wetlands on the site?				⊠Yes	∐N0	
(ii) Are there coastal wetlands on th	e site?			□Yes	⊠No	
(iii) If yes to either (i) or (ii) above, h (Attach documentation, if availate		conducted	?	⊠Yes	□No	
(Allacri documentation, il avallat	<i>noj</i>					

n. Describe existing wastewater treatment facilities.	
none	
none	
a. Describe evicting dripking water cumply source	
o. Describe existing drinking water supply source.	
none	
p. Describe existing storm water management or treatment systems.	
Shoulder sections with sheet flow	
5. Activities and Impacts	
a. Will the project be for commercial, public, or private use?	□Commercial ☑Public/Government
	☐Private/Community
b. Give a brief description of purpose, use, and daily operations of the project when complete.	
Replacement of Bridge No. 14 over Cashie River.	
·	
c. Describe the proposed construction methodology, types of construction equipment to be used	during construction, the number of each type
of equipment and where it is to be stored.	during concuration, the number of each type
This project involves the replacement of Bridge No. 14 (US 17) in Windsor. The bridge	ge will be replaced at the existing
location, and traffic will be maintained on site utilizing staged construction. The exist	ting bridge will be removed without
dropping any components into the water. Typical construction, earth moving, and re	oad surface equipment will be used.
d. List all development activities you propose.	
Construction of a new bridge and roadway	
e. Are the proposed activities maintenance of an existing project, new work, or both?	both
e. The the proposed activities maintenance of an existing project, new work, or both?	DOUT
f. What is the approximate total disturbed land area resulting from the proposed project?	1 ☐Sq.Ft or ⊠Acres
The vital is the approximate total distance take a recalling from the proposed project.	I God'' to Mydoles
g. Will the proposed project encroach on any public easement, public accessway or other area	⊠Yes □No □NA
that the public has established use of?	
h. Describe location and type of existing and proposed discharges to waters of the state.	
Concentrated flow discharged to rip rap pads	
i. Will wastewater or stormwater be discharged into a wetland?	⊠Yes □No □NA
The fractional of commutation be alcoholiged into a violatia.	
If yes, will this discharged water be of the same salinity as the receiving water?	⊠Yes □No □NA
j. Is there any mitigation proposed?	⊠Yes □No □NA
If yes, attach a mitigation proposal.	
<pre><form back="" continues="" on=""></form></pre>	
6. Additional Information	
In addition to this completed application form, (MP-1) the following items below, if applicable, mu	
package to be complete. Items (a) – (f) are always applicable to any major development applica instruction booklet on how to properly prepare the required items below.	tion. Please consult the application
a. A project narrative.	
a. A VIVIGUE RAHAUVE.	
b. An accurate, dated work plat (including plan view and cross-sectional drawings) drawn to scale	
b. An accurate, dated work plat (including plan view and cross-sectional drawings) drawn to sca proposed project. Is any portion already complete? If previously authorized work, clearly indi	cate on maps, plats, drawings to distinguish

d. A copy	of the deed (with state application only) or other instrument under which the applicant claims title to the affected properties.						
e. The ap	propriate application fee. Check or money order made payable to DENR.						
owners which to	f. A list of the names and complete addresses of the adjacent waterfront (riparian) landowners and signed return receipts as proof that such owners have received a copy of the application and plats by certified mail. Such landowners must be advised that they have 30 days in which to submit comments on the proposed project to the Division of Coastal Management.						
Name	•						
Phone No.							
Address	611 Greene Cross Road, Windsor, NC 27983						
Name	John E. Sherron						
Phone No.							
Address	4323 Breeze Road, Hurdle Mills, NC 27541						
Name	Browne-Britton, Inc.						
Phone No.							
Address	P.O. Box 1386, Ahoskie, NC 27910						
a. A list of	previous state or federal permits issued for work on the project tract. Include permit numbers, permittee, and issuing dates.						
	mwater Permit, No. SW7060619, NCDWQ, August 09, 2006						
	,						
b 0:							
	consultant or agent authorization form, if applicable.						
i. Wetland	d delineation, if necessary.						
j. A signe	d AEC hazard notice for projects in oceanfront and inlet areas. (Must be signed by property owner)						
	ment of compliance with the N.C. Environmental Policy Act (N.C.G.S. 113A 1-10), if necessary. If the project involves expenditure						
of publi	c funds or use of public lands, attach a statement documenting compliance with the North Carolina Environmental Policy Act.						
7. Certi	fication and Permission to Enter on Land						
	and that any permit issued in response to this application will allow only the development described in the application. ect will be subject to the conditions and restrictions contained in the permit.						
	nat I am authorized to grant, and do in fact grant permission to representatives of state and federal review agencies to						
	the aforementioned lands in connection with evaluating information related to this permit application and follow-up						
	g of the project.						
I further o	certify that the information provided in this application is truthful to the best of my knowledge.						
Date 11.	Print Name P.L. LVSIC Signature E.L. Lusk						
•	(1) V I_{a}						
	Signature E.T. Two Me						
Diografia	digate application attachments portaining to your proposed project						
	dicate application attachments pertaining to your proposed project. IP-2 Excavation and Fill Information						
_	IP-2 Excavation and Fill Information						
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	Form DCM MP-1 (Page 5 of 5)	APPLICATION for Major Development Permit
	□DCM MP-4 Structures Information	

Form DCM MP-5

BRIDGES and CULVERTS

Attach this form to Joint Application for CAMA Major Permit, Form DCM MP-1. Be sure to complete all other sections of the Joint Application that relate to this proposed project. Please include all supplemental information.

1.	BRIDGES		☐This section not applicable
а.	Is the proposed bridge:	b.	Water body to be crossed by bridge:
	☐Commercial ☑Public/Government ☐Private/Community		Cashie River
c.	Type of bridge (construction material):	d.	Water depth at the proposed crossing at NLW or NWL:
	3 @ 50' Cored Slab Bridge		11' (NWS)
e.	(i) Will proposed bridge replace an existing bridge? If yes, (ii) Length of existing bridge: 130' (iii) Width of existing bridge: 39' (iv) Navigation clearance underneath existing bridge: 5' (v) Will all, or a part of, the existing bridge be removed? (Explain) All bridge and support structures above river bed will be removed	f.	(i) Will proposed bridge replace an existing culvert? ☐Yes ☒No If yes, (ii) Length of existing culvert: (iii) Width of existing culvert: (iv) Height of the top of the existing culvert above the NHW or NWL: (v) Will all, or a part of, the existing culvert be removed? (Explain)
g.	Length of proposed bridge: 150'	h.	Width of proposed bridge: 63'
i.	Will the proposed bridge affect existing water flow? ☐Yes ☒No	j.	Will the proposed bridge affect navigation by reducing or
	If yes, explain:		increasing the existing navigable opening? ☐ Yes ☐ No If yes, explain: The number of inwater bents will be reduced from 5 to 2.
k.	Navigation clearance underneath proposed bridge: 5'	I.	Have you contacted the U.S. Coast Guard concerning their approval?
m.	Will the proposed bridge cross wetlands containing no navigable waters? ☐Yes ☑No If yes, explain:	n.	Height of proposed bridge above wetlands:
2.	CULVERTS		☐This section not applicable
a.	Number of culverts proposed: N/A	b.	Water body in which the culvert is to be placed:
C.	<pre></pre>	inue	s on back>

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Form DCM MP-5 (Bridges and Culverts, Page 2 of 4)

d.	(i) Will proposed culvert replace an existing bridge? Yes No	e.	(i) Will proposed culvert replace an existing culvert? Yes No
f. h.	Length of proposed culvert: Height of the top of the proposed culvert above the NHW or NWL.	g. i.	Width of proposed culvert: Depth of culvert to be buried below existing bottom contour.
j.	Will the proposed culvert affect navigation by reducing or increasing the existing navigable opening? ☐Yes ☐No If yes, explain:	k.	Will the proposed culvert affect existing water flow? ☐Yes ☐No If yes, explain:
3.	EXCAVATION and FILL		☐This section not applicable
a.	(i) Will the placement of the proposed bridge or culvert require any excavation below the NHW or NWL? ☐Yes ☑No If yes, (ii) Avg. length of area to be excavated: (iii) Avg. width of area to be excavated: (iv) Avg. depth of area to be excavated: (v) Amount of material to be excavated in cubic yards:	b.	(i) Will the placement of the proposed bridge or culvert require any excavation within coastal wetlands/marsh (CW), submerged aquatic vegetation (SAV), shell bottom (SB), or other wetlands (WL)? If any boxes are checked, provide the number of square feet affected.
c.	(i) Will the placement of the proposed bridge or culvert require any		(ii) Describe the purpose of the excavation in these areas:
	high-ground excavation?		

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Form DCM MP-5 (Bridges and Culverts, Page 3 of 4)

d.	If the placement of the bridge or culvert involves any excavation, please	se cor	nplete the following:
	(i) Location of the spoil disposal area: Approved NCDOT site		
	(ii) Dimensions of the spoil disposal area: To be determined (iii) Do you claim title to the disposal area? ☐Yes ☐No (If no, atta (iv) Will the disposal area be available for future maintenance? ☐Yes (v) Does the disposal area include any coastal wetlands/marsh (CW), bottom (SB)? ☐CW ☐SAV ☐WL ☐SB ☒None If any boxes are checked, give dimensions if different from (ii) about the content of	i∏ s mdus	No
	(vi) Does the disposal area include any area below the NHW or NWL? If yes, give dimensions if different from (ii) above.	??[]Yes □No
e.	(i) Will the placement of the proposed bridge or culvert result in any fill (other than excavated material described in Item d above) to be placed below NHW or NWL? ☐Yes ☑No If yes, (ii) Avg. length of area to be filled: (iii) Avg. width of area to be filled: (iv) Purpose of fill:	f.	(i) Will the placement of the proposed bridge or culvert result in any fill (other than excavated material described in Item d above) to be placed within coastal wetlands/marsh (CW), submerged aquatic vegetation (SAV), shell bottom (SB), or other wetlands (WL)? If any boxes are checked, provide the number of square feet affected. CW
g.	(i) Will the placement of the proposed bridge or culvert result in any fill (other than excavated material described in Item d above) to be placed on high-ground? ☐ Yes ☐ No If yes, (ii) Avg. length of area to be filled: 500' (iii) Avg. width of area to be filled: 20' (iv) Purpose of fill: roadway embankment		
4.	GENERAL		
а.	Will the proposed project require the relocation of any existing utility lines? ☐Yes ☐No	b.	Will the proposed project require the construction of any temporary detour structures? ☐Yes ☒No If yes, explain:
	If this portion of the proposed project has already received approval from local authorities, please attach a copy of the approval or certification.		
	< Form conti	nue	s on back>
C.	Will the proposed project require any work channels? ☐Yes ☐No If yes, complete Form DCM-MP-2.	d.	How will excavated or fill material be kept on site and erosion controlled? Using NCDOT Best Management Practices

Form DCM MP-5 (Bridges and Culverts, Page 4 of 4)

e.	What type of construction equipment will be used (for example, dragline, backhoe, or hydraulic dredge)?	f.	Will wetlands be crossed in transporting equipment to project site? ☐ Yes ☒ No
	Typical construction, earth moving, and road surface equipment will be used.		If yes, explain steps that will be taken to avoid or minimize environmental impacts.
g.	Will the placement of the proposed bridge or culvert require any shoreline stabilization? ☐Yes ☒No		
	If yes, complete form MP-2, Section 3 for Shoreline Stabilization only.		
_	11.25.08	_	
Da	B-4434	_	
Pro	oject Name NCDOT	_	
Ap	plicant Name E. Plusk		
Аp	plicant Signature	_	

Offic	e Us	e Only:		Form Version March 05
USA	CE A	Action ID No.]	DWQ No
	-			t, please enter "Not Applicable" or "N/A".)
I.	Pr	ocessing		
		Check all of the approx Section 404 Permit Section 10 Permit 401 Water Quality	Certification	Riparian or Watershed Buffer Rules Isolated Wetland Permit from DWQ Express 401 Water Quality Certification
	2.	Nationwide, Regional	or General Perillit Null	nber(s) Requested: NW 23 & 33
	3.	If this notification is so is not required, check h	·	ecause written approval for the 401 Certification
	4.		•	m Enhancement Program (NCEEP) is proposed nce letter from NCEEP, complete section VIII,
	5.	4), and the project is	within a North Caro	arolina's twenty coastal counties (listed on page lina Division of Coastal Management Area of 2 for further details), check here:
П.	Aj	pplicant Information		
	1.	Owner/Applicant Infor	mation	
		Name:		Ph.D., Environmental Management Director
		Mailing Address:		
			1598 Mail Service	Center
			Raleigh, NC 2769	9-1598
				Fax Number: (919) 733-9794
	2.	must be attached if the Name:	Agent has signatory a	d dated copy of the Agent Authorization letter athority for the owner/applicant.)
		Company Affiliation:_		
		Mailing Address:		
		Telephone Number:		Fax Number:
		E-mail Address:		

III. Project Information

Attach a **vicinity map** clearly showing the location of the property with respect to local landmarks such as towns, rivers, and roads. Also provide a detailed **site plan** showing property boundaries and development plans in relation to surrounding properties. Both the vicinity map and site plan must include a scale and north arrow. The specific footprints of all buildings, impervious surfaces, or other facilities must be included. If possible, the maps and plans should include the appropriate USGS Topographic Quad Map and NRCS Soil Survey with the property boundaries outlined. Plan drawings, or other maps may be included at the applicant's discretion, so long as the property is clearly defined. For administrative and distribution purposes, the USACE requires information to be submitted on sheets no larger than 11 by 17-inch format; however, DWQ may accept paperwork of any size. DWQ prefers full-size construction drawings rather than a sequential sheet version of the full-size plans. If full-size plans are reduced to a small scale such that the final version is illegible, the applicant will be informed that the project has been placed on hold until decipherable maps are provided.

1.	Name of project: Bridge No. 14 Replacement
2.	T.I.P. Project Number or State Project Number (NCDOT Only): B-4434
3.	Property Identification Number (Tax PIN): N/A
4.	Location County: Bertie Nearest Town: Windsor Subdivision name (include phase/lot number): N/A Directions to site (include road numbers/names, landmarks, etc.): Bridge over Cashie River on US 17 in Windsor.
5.	Site coordinates (For linear projects, such as a road or utility line, attach a sheet that separately lists the coordinates for each crossing of a distinct waterbody.) Decimal Degrees (6 digits minimum):35.99364°N76.94234°W
6.	Property size (acres): N/A
7.	Name of nearest receiving body of water: <u>Cashie River</u>
8.	River Basin: Roanoke (Note – this must be one of North Carolina's seventeen designated major river basins. The River Basin map is available at http://h2o.enr.state.nc.us/admin/maps/ .)

9. Describe the existing conditions on the site and general land use in the vicinity of the project at the time of this application: Currently there is a bridge with a sufficiency rating of 49.6 out of a possible 100 that is considered functionally obsolete. The land use in the project area is predominantly commercial and residential. The Cashie River Park is not currently serving as a park and the land has reverted to individual ownership. This Section of US 17 is

not part of a designated bicycle route nor is it listed in the TIP as needing incidental bicycle accommodations.

- 10. Describe the overall project in detail, including the type of equipment to be used:

 This project involves the replacement of Bridge No. 14 (US 17) in Windsor. The bridge will be replaced at the existing location, and traffic will be maintained on site utilizing staged construction. The traffic flow will be reduced to one-way with alternate movements being controlled by temporary traffic lights. The new bridge will be a three span structure. The existing bridge will be removed without dropping any components into the water. Typical construction, earth moving, and road surface equipment will be used.
- 11. Explain the purpose of the proposed work: The purpose and need of this project is to replace a functionally obsolete bridge, and to provide safer more efficient traffic operations.

IV. Prior Project History

If jurisdictional determinations and/or permits have been requested and/or obtained for this project (including all prior phases of the same subdivision) in the past, please explain. Include the USACE Action ID Number, DWO Project Number, application date, and date permits and certifications were issued or withdrawn. Provide photocopies of previously issued permits, certifications or other useful information. Describe previously approved wetland, stream and buffer impacts, along with associated mitigation (where applicable). If this is a NCDOT project, list and describe permits issued for prior segments of the same T.I.P. project, along with A field review of the wetlands and streams was conducted with Mike construction schedules. Bell (USACE) on June 10, 2002. Later NCDOT received the official notification of jurisdictional determination dated September 18, 2002 (Action ID 200211045). NCDOT has obtained a State Stormwater Permit (Permit No. SW7060619) dated August 9, 2006. By request of these Nationwide Permits we are also requesting the reverification of the jurisdictional determination. NCDOT does not request the Corps to evaluate our site using the Rapanos guidance. Instead, we are satisfied with the delineation as reviewed and approved prior to 6/5/2007, and ask that you evaluate this permit verification based on that review.

V. Future Project Plans

Are any future permit requests anticipated for this project? If so, describe the anticipated work, and provide justification for the exclusion of this work from the current application. N/A

VI. Proposed Impacts to Waters of the United States/Waters of the State

It is the applicant's (or agent's) responsibility to determine, delineate and map all impacts to wetlands, open water, and stream channels associated with the project. Each impact must be listed separately in the tables below (e.g., culvert installation should be listed separately from riprap dissipater pads). Be sure to indicate if an impact is temporary. All proposed impacts, permanent and temporary, must be listed, and must be labeled and clearly identifiable on an accompanying site plan. All wetlands and waters, and all streams (intermittent and perennial) should be shown on a delineation map, whether or not impacts are proposed to these systems.

Wetland and stream evaluation and delineation forms should be included as appropriate. Photographs may be included at the applicant's discretion. If this proposed impact is strictly for wetland or stream mitigation, list and describe the impact in Section VIII below. If additional space is needed for listing or description, please attach a separate sheet.

1. Provide a written description of the proposed impacts. There will be 0.22 ac. permanent fill in wetlands due to the improvements to US 17. There will be also be 0.05 ac. of temporary fill in wetlands within the hand clearing areas, due to erosion control devices.

2. Individually list wetland impacts. Types of impacts include, but are not limited to mechanized clearing, grading, fill, excavation, flooding, ditching/drainage, etc. For dams,

separately list impacts due to both structure and flooding.

Wetland Impact Site Number (indicate on map)	Type of Impact	Type of Wetland (e.g., forested, marsh, herbaceous, bog, etc.)	Located within 100-year Floodplain (yes/no)	Distance to Nearest Stream (linear feet)	Area of Impact (acres)
1	Permanent Fill	Forested	Yes	Abutting	0.03
2	Permanent Fill	Forested	Yes	Abutting	0.14
3	Permanent Fill	Forested	Yes	Abutting	0.05
	Temporary Fill	Forested	Yes	Abutting	0.05
	Tota	l Wetland Impact (acres)			0.27

3. List the total acreage (estimated) of all existing wetlands on the property: 3 acres

4. Individually list all intermittent and perennial stream impacts. Be sure to identify temporary impacts. Stream impacts include, but are not limited to placement of fill or culverts, dam construction, flooding, relocation, stabilization activities (e.g., cement walls, rip-rap, crib walls, gabions, etc.), excavation, ditching/straightening, etc. If stream relocation is proposed, plans and profiles showing the linear footprint for both the original and relocated streams must be included. To calculate acreage, multiply length X width, then divide by 43,560.

			<u> </u>			
Stream Impact Number (indicate on map)	Stream Name	Type of Impact	Perennial or Intermittent?	Average Stream Width Before Impact	Impact Length (linear feet)	Area of Impact (acres)
N/A						

5. Individually list all open water impacts (including lakes, ponds, estuaries, sounds, Atlantic Ocean and any other water of the U.S.). Open water impacts include, but are not limited to fill, excavation, dredging, flooding, drainage, bulkheads, etc.

Open Water Impact Site Number (indicate on map)	Name of Waterbody (if applicable)	Type of Impact	Type of Waterbody (lake, pond, estuary, sound, bay, ocean, etc.)	Area of Impact (acres)				
N/A								
Total Open Water Impact (acres)								

6. List the cumulative impact to all Waters of the U.S. resulting from the project:

Stream Impact (acres):	0
Wetland Impact (acres):	0.27
Open Water Impact (acres):	0
Total Impact to Waters of the U.S. (acres)	0.27
Total Stream Impact (linear feet):	0

7.	Isolated Waters Do any isolated waters exist on the property? Yes No Describe all impacts to isolated waters, and include the type of water (wetland or stream) and the size of the proposed impact (acres or linear feet). Please note that this section only applies to waters that have specifically been determined to be isolated by the USACE.
8.	Pond Creation If construction of a pond is proposed, associated wetland and stream impacts should be included above in the wetland and stream impact sections. Also, the proposed pond should be described here and illustrated on any maps included with this application. Pond to be created in (check all that apply): uplands stream wetlands Describe the method of construction (e.g., dam/embankment, excavation, installation of draw-down valve or spillway, etc.): N/A
	Proposed use or purpose of pond (e.g., livestock watering, irrigation, aesthetic, trout pond, local stormwater requirement, etc.): N/A
	Current land use in the vicinity of the pond: N/A
	Size of watershed draining to pond: N/A Expected pond surface area: N/A

VII. Impact Justification (Avoidance and Minimization)

Specifically describe measures taken to avoid the proposed impacts. It may be useful to provide information related to site constraints such as topography, building ordinances, accessibility, and financial viability of the project. The applicant may attach drawings of alternative, lower-impact site layouts, and explain why these design options were not feasible. Also discuss how impacts were minimized once the desired site plan was developed. If applicable, discuss construction techniques to be followed during construction to reduce impacts. Staged construction will be used to maintain traffic on the existing bridge, therefore no onsite detour. The number of inwater bents is going from 5 to 2. An in-stream moratorium for anadromous fish, from February 15 to June 30, will be implemented. Retaining walls will be constructed to contain the proposed three-lane cross section and avoid fill slopes encroaching into the Cashie River along the northeast side of US 17 on either side of the "Cashie River Park" land split. Small coffer dams will be constructed to allow temporary dewatering to facilitate construction of the walls. No live concrete will be introduced into the Cashie River. The coffer dams and dewatering will allow for minimum disturbance in the waters of the Cashie River at these two locations.

VIII. Mitigation

DWQ - In accordance with 15A NCAC 2H .0500, mitigation may be required by the NC Division of Water Quality for projects involving greater than or equal to one acre of impacts to freshwater wetlands or greater than or equal to 150 linear feet of total impacts to perennial streams.

USACE – In accordance with the Final Notice of Issuance and Modification of Nationwide Permits, published in the Federal Register on January 15, 2002, mitigation will be required when necessary to ensure that adverse effects to the aquatic environment are minimal. Factors including size and type of proposed impact and function and relative value of the impacted aquatic resource will be considered in determining acceptability of appropriate and practicable mitigation as proposed. Examples of mitigation that may be appropriate and practicable include, but are not limited to: reducing the size of the project; establishing and maintaining wetland and/or upland vegetated buffers to protect open waters such as streams; and replacing losses of aquatic resource functions and values by creating, restoring, enhancing, or preserving similar functions and values, preferable in the same watershed.

If mitigation is required for this project, a copy of the mitigation plan must be attached in order for USACE or DWQ to consider the application complete for processing. Any application lacking a required mitigation plan or NCEEP concurrence shall be placed on hold as incomplete. An applicant may also choose to review the current guidelines for stream restoration in DWQ's Draft Technical Guide for Stream Work in North Carolina, available at http://h2o.enr.state.nc.us/ncwetlands/strmgide.html.

1. Provide a brief description of the proposed mitigation plan. The description should provide as much information as possible, including, but not limited to: site location (attach directions and/or map, if offsite), affected stream and river basin, type and amount (acreage/linear feet) of mitigation proposed (restoration, enhancement, creation, or preservation), a plan view, preservation mechanism (e.g., deed restrictions, conservation easement, etc.), and a description of the current site conditions and proposed method of construction. Please attach a separate sheet if more space is needed.

Mitigation will be provided by NCEEP. A copy of the acceptance letter is included with this application.

2. Mitigation may also be made by payment into the North Carolina Ecosystem Enhancement Program (NCEEP). Please note it is the applicant's responsibility to contact the NCEEP at (919) 715-0476 to determine availability, and written approval from the NCEEP indicating that they are will to accept payment for the mitigation must be attached to this form. For additional information regarding the application process for the NCEEP, check the NCEEP website at http://h2o.enr.state.nc.us/wrp/index.htm. If use of the NCEEP is proposed, please check the appropriate box on page five and provide the following information:

Amount of stream mitigation requested (linear feet): N/A

Amount of buffer mitigation requested (square feet): N/A

Amount of Riparian wetland mitigation requested (acres): 0.22

Amount of Non-riparian wetland mitigation requested (acres): N/A

Amount of Coastal wetland mitigation requested (acres): N/A

IX.	En	vironmental Docume	ntation (required	by DWQ)		
	1.	Does the project inversely public (federal/state)			al/state/local) fu	ands or the use of
	2.	If yes, does the project requirements of the Note: If you are not coordinator at (919) 7 Yes No	National or North of sure whether a 33-5083 to review	Carolina Environn NEPA/SEPA docu	nental Policy Ao ment is require	ct (NEPA/SEPA)? ed, call the SEPA
	3.	If yes, has the docur attach a copy of the N		•		use? If so, please lo [
Х.	Pr	oposed Impacts on Ri	parian and Water	rshed Buffers (req	uired by DWQ))
	jus and ma Re	is the applicant's (or a quired state and local stification for these imp d must be clearly ident ap, whether or not im- gional Office may be policant's discretion.	buffers associated pacts in Section VII ifiable on the accopacts are propose	with the project. I above. All propompanying site pland to the buffers.	The applicant osed impacts mun. All buffers mun. Correspondence	must also providents be listed herein the shown on a fee from the DWC
	1.	Will the project imp (Neuse), 15A NCAC 2B .0250 (Randlema identify	2B .0259 (Tar-Pan in Rules and Wat	nlico), 15A NCAC ter Supply Buffer	02B .0243 (Cat	awba) 15A NCAC
	2.	If "yes", identify the If buffer mitigation is buffer multipliers.				
		Zone*	Impact (square feet)	Multiplier	Required Mitigation	
		1	(Square Ioot)	3 (2 for Catawba)	N/A	
		2		1.5		
		Total				

* Zone 1 extends out 30 feet perpendicular from the top of the near bank of channel; Zone 2 extends an additional 20 feet from the edge of Zone 1.

3. If buffer mitigation is required, please discuss what type of mitigation is proposed (i.e., Donation of Property, Riparian Buffer Restoration / Enhancement, or Payment into the Riparian Buffer Restoration Fund). Please attach all appropriate information as identified within 15A NCAC 2B .0242 or .0244, or .0260. N/A

XI.	Stormwater (required by DWQ)
	Describe impervious acreage (existing and proposed) versus total acreage on the site. Discuss stormwater controls proposed in order to protect surface waters and wetlands downstream from the property. If percent impervious surface exceeds 20%, please provide calculations demonstrating total proposed impervious level. A Stormwater Permit was issued for the project on August 9, 2006 (included).
XII.	Sewage Disposal (required by DWQ)
	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. N/A
XIII.	Violations (required by DWQ)
	Is this site in violation of DWQ Wetland Rules (15A NCAC 2H .0500) or any Buffer Rules? Yes No No
	Is this an after-the-fact permit application? Yes \(\square \) No \(\square \)
XIV.	Cumulative Impacts (required by DWQ)
	Will this project (based on past and reasonably anticipated future impacts) result in additional development, which could impact nearby downstream water quality? Yes No If yes, please submit a qualitative or quantitative cumulative impact analysis in accordance with the most recent North Carolina Division of Water Quality policy posted on our website at http://h2o.enr.state.nc.us/ncwetlands . If no, please provide a short narrative description:

XV. Other Circumstances (Optional):

It is the applicant's responsibility to submit the application sufficiently in advance of desired construction dates to allow processing time for these permits. However, an applicant may choose to list constraints associated with construction or sequencing that may impose limits on work schedules (e.g., draw-down schedules for lakes, dates associated with Endangered and Threatened Species, accessibility problems, or other issues outside of the applicant's control).

As of January 31, 2008, the United States Fish and Wildlife Service lists two federally protected species for Bertie County. The Biological Conclusion of "No Effect" remains valid for the Red-cockaded woodpecker referenced in the CE document due to lack of suitable habitat. The shortnose sturgeon has been added to the list for Bertie County since the completion of the referenced CE. On February 13,

2004 Chris Manley received an email from NCDOT biologist, Lindsey Riddick, stating that the shortnose Sturgeon issue was resolved with former biologists from NC Division Marine Fisheries staff (Jason Dilday and Fritz Rohde). This project will have no effect on the shortnose sturgeon. In the July 9, 2007 Federal Register (72:37346-37372), the bald eagle was declared recovered, and removed (delisted) from the Federal List of Threatened and Endangered wildlife. This delisting took effect August 8, 2007. After delisting, the Bald and Golden Eagle Protection Act (Eagle Act) (16 U.S.C. 668-668d) becomes the primary law protecting bald eagles. Bald eagle occurrences and nesting habitat were surveyed using the NHP database and aerial photography. On April 17, 2008 Chris Manley (NCDOT/NEU) had a phone conversation with David Allen with NCWRC; during the conversation it was determined no survey was needed and therefore, this project will have no effect on the bald eagle.

Applicant/Agent's Signature

Date

11.25.08

(Agent's signature is valid only if an authorization letter from the applicant is provided.)



William G. Ross Jr., Secretary North Carolina Department of Environment and Natural Resources

> Alan W. Klimek, P.E. Director Division of Water Quality

August 9, 2006

Dr. Gregory J. Thorpe NC Department of Transportation 1548 Mail Service Center Raleigh, NC 27699-1548

RECEIVED

16 2006

HICHWAYS

ENVIRONMENT

Subject:

Permit No. SW7060619

TIP No. B-4434, Hwy 17 Bridge Over Cashie River

State Stormwater Permit

Linear Public Road/Bridge Project

Bertie County

Dear Dr. Thorpe:

The Washington Regional Office received a completed Stormwater Application for the subject project on June 13, 2006. Staff review of the plans and specifications has determined that the project, as proposed, will comply with the Stormwater Regulations set forth in Title 15A NCAC 2H.1000. We are forwarding Permit No. SW7060619 dated August 9, 2006 to the NC Department of Transportation for the proposed improvements and bridge replacement to Hwy 17 over the Cashie River in Bertie County.

This permit shall be effective from the date of issuance until rescinded and shall be subject to the conditions and limitations as specified therein.

If any parts, requirements, or limitations contained in this permit are unacceptable, you have the right to request an adjudicatory hearing upon written request within thirty (30) days following receipt of this permit. This request must be in the form of a written petition, conforming to Chapter 150B of the North Carolina General Statutes. and filed with the Office of Administrative Hearings, 6714 Mail Service Center, Raleigh, NC 27699-6714. Unless such demands are made this permit shall be final and binding.

If you have any questions, or need additional information concerning this matter, please contact Roger Thorpe or me at (252) 946-6481.

Sincerely.

Al Hodge, Regional Supervisor Surface Water Protection Section Washington Regional Office

CC:

Washington Regional Office

Central Files

STATE OF NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES DIVISION OF WATER QUALITY

STATE STORMWATER MANAGEMENT PERMIT

STORMWATER PERMIT

In accordance with the provisions of Article 21 of Chapter 143, General Statutes of North Carolina as amended, and other applicable Laws, Rules, and Regulations

PERMISSION IS HEREBY GRANTED TO

NC Department of Transportation

Bertie County

FOR THE

Construction of a public road/bridge in compliance with the provisions of 15A NCAC 2H.1000 (hereafter referred to as the "stormwater rules") and the approved stormwater management plans and specifications and other supporting data as attached and on file with and approved by the Division of Water Quality and considered a part of this permit for Highway 17 improvements and bridge replacement over the Cashie River in Bertie County.

This permit shall be effective from the date of issuance until rescinded and shall be subject to the following specified conditions and limitations:

I. DESIGN STANDARDS

- 1. The runoff from the impervious surfaces has been directed away from surface waters as much as possible.
- 2. The Amount of built-upon area has been minimized as much as possible.
- 3. Best management Practices are employed which minimizes water quality impacts.
- 4. Approved plans and specifications for this project are incorporated by reference and are enforceable parts of the permit.
- 5. Vegetated roadside ditches are 3:1 slopes or flatter.

II. SCHEDULE OF COMPLIANCE

- 1. The permittee shall at all times provide adequate erosion control measures in conformance with the approved Erosion Control Plan.
 - 2. The Director may notify the permittee when the permitted site does not meet one or more of the minimum requirements of the permit. Within the time frame specified in the notice, the permittee shall submit a written time schedule to the Director for modifying the site to meet minimum requirements. The permittee shall provide copies of revised plans and certification in writing to the Director that the changes have been made.
- 3. The permittee shall submit all information requested by the Director or his representative within the time frame specified in the written information request.
- 4. The permittee shall submit to the Director and shall have received approval for revised plans, specifications, and calculations prior to construction for the following items:
 - a. Major revisions to the approved plans, such as road realignment, deletion of any proposed BMP, changes to the drainage area or scope of the project, etc.
 - b. Project name change.
 - c. Redesign of, addition to, or deletion of the approved amount of built-upon area, regardless of size.
 - d. Alteration of the proposed drainage.
- 5. The Director may determine that other revisions to the project should require a modification to the permit.

III. GENERAL CONDITIONS

- This permit is not transferable to any person except after notice to and approval by the Director. The Director may require modification or revocation and reissuance of the permit to change name and incorporate such other requirements as may be necessary. A formal permit request must be submitted to the Division of Water Quality accompanied by the appropriate fee, documentation from the parties involved, and other supporting materials as may be appropriate. The approval of this request will be considered on its merits and may or may not be approved. The permittee is responsible for compliance with the terms and conditions of this permit until such time as the Director approves the transfer.
- 2. Failure to abide by the conditions and limitations contained in this permit may subject the Permittee to enforcement action by the Division of Water Quality, in accordance with North Carolina General Statute 143-215.6(A) to 143-215.6(C).
- 3. The issuance of this permit does not preclude the Permittee from complying with any and all statutes, rules, regulations, or ordinances which may be imposed by other government agencies (local, state, and federal) which have jurisdiction.
- 4. The issuance of this permit does not prohibit the Director from reopening and modifying the permit, revoking and reissuing the permit, or terminating the permit as allowed by laws, rules, and regulations contained in Title 15A of the North Carolina Administrative Code, Subchapter 2H .1000; and North Carolina General Statute 143-215.1 et. al.
- 5. The permit may be modified, revoked and reissued or terminated for cause. The filing of a request for a permit modification, revocation and reissuance or termination does not stay any permit condition.

- 6. The permit issued shall continue in force and effect until revoked or terminated.
- 7. The permittee shall notify the Division of any name, ownership or mailing address changes within 30 days.

Permit issued this the 9 th day of August, 2006.

NORTH CAROLINA ENVIRONMENTAL MANAGEMENT COMMISSION

for Alan W. Klimek, P.E. Director

Division of Water Quality

By Authority of the Environmental Management Commission

Permit Number SW7060619



October 30, 2008

Mr. Gregory J. Thorpe, Ph.D. Environmental Management Director 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-4434, Replace Bridge Number 14 on US 17 over the Cashie River, Bertie County

The purpose of this letter is to notify you that the Ecosystem Enhancement Program (EEP) will provide the riparian wetland mitigation for the subject project. Based on the information supplied by you on October 22, 2008, the impacts are located in CU 03010107 of the Roanoke River Basin in the Northern Outer Coastal Plain (NOCP) Eco-Region, and are as follows:

Riparian Wetland:

0.22 acre

EEP commits to implementing sufficient compensatory riparian wetland mitigation credits to offset the impacts associated with this project by the end of the MOA Year in which this project is permitted, in accordance with Section X of the Amendment No. 2 to the Memorandum of Agreement between the North Carolina Department of Environment and Natural Resources, the North Carolina Department of Transportation, and the U. S. Army Corps of Engineers, fully executed on March 8, 2007. If the above referenced wetland 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,

William D. Gilmore, P.E.

EEP Director

cc: Mr. Bill Biddlecome, USACE – Washington Regulatory Field Office

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

File: B-4434



October 30, 2008

Mr. Bill Biddlecome U. S. Army Corps of Engineers Washington Regulatory Field Office Post Office Box 1000 Washington, North Carolina 27889-1000

Dear Mr. Biddlecome:

Subject:

EEP Mitigation Acceptance Letter:

B-4434, Replace Bridge Number 14 over the Cashie River on US 17, Bertie County; Roanoke River Basin (Cataloging Unit 03010107);

Northern Outer Coastal Plain (NOCP) Eco-Region

The purpose of this letter is to notify you that the Ecosystem Enhancement Program (EEP) will provide the compensatory riparian wetland mitigation for the unavoidable impact associated with the above referenced project. As indicated in the NCDOT's mitigation request dated October 22, 2008, riparian wetland mitigation from EEP is required for approximately 0.22 acre of riparian wetland impacts.

Riparian wetland mitigation associated with this project will be provided in accordance with Section X of the Amendment No. 2 to the Memorandum of Agreement between the N. C. Department of Environment and Natural Resources, the N. C. Department of Transportation, and the U. S. Army Corps of Engineers fully executed on March 8, 2007 (Tri-Party MOA). EEP commits to implement sufficient riparian wetland mitigation up to 0.44 riparian wetland credits to offset the impacts associated with this project by the end of the MOA year in which this project is permitted. 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,

William D. Gilmore, P.E.

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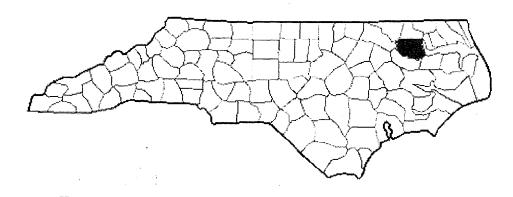
EEP Director

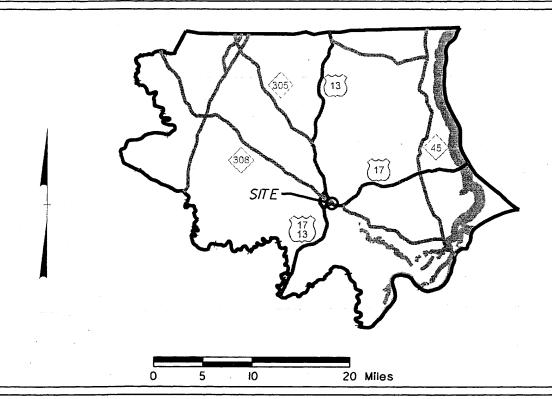
cc: Mr. Gregory J. Thorpe, Ph.D., NCDOT-PDEA

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

File: B-4434

NORTH CAROLINA





VICINITY MAP

Permit Drawing
Sheet / of /3

NCDOT

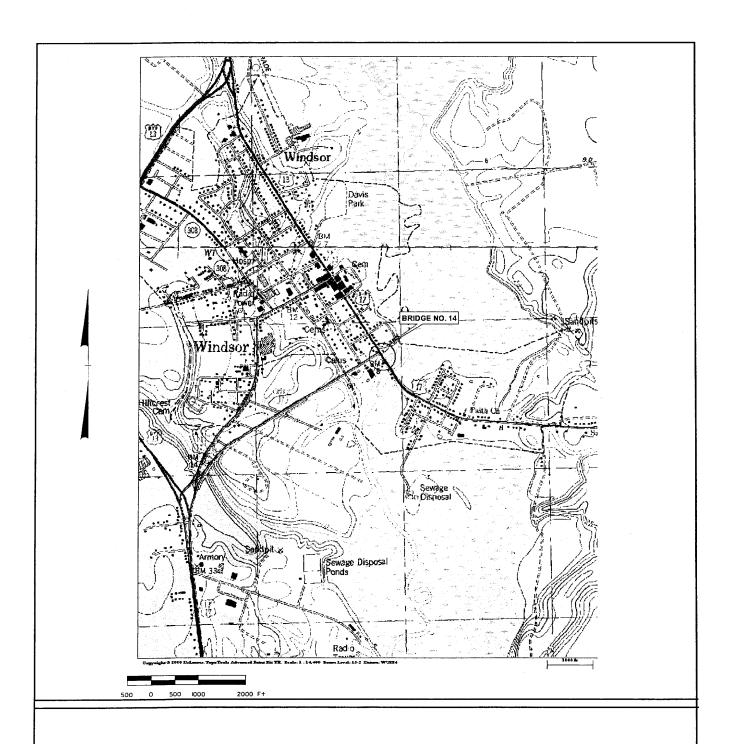
DIVISION OF HIGHWAYS PROJECT: 33700.1.1 (B-4434)

BERTIE COUNTY

REPLACE BRIDGE NO. 14 ON US 17/NC 308 OVER CASHIE RIVER

SHEET 1 OF 13

MAY 2008



LOCATION MAP

NCDOT

DIVISION OF HIGHWAYS PROJECT: 33700.1.1 (B-4434)

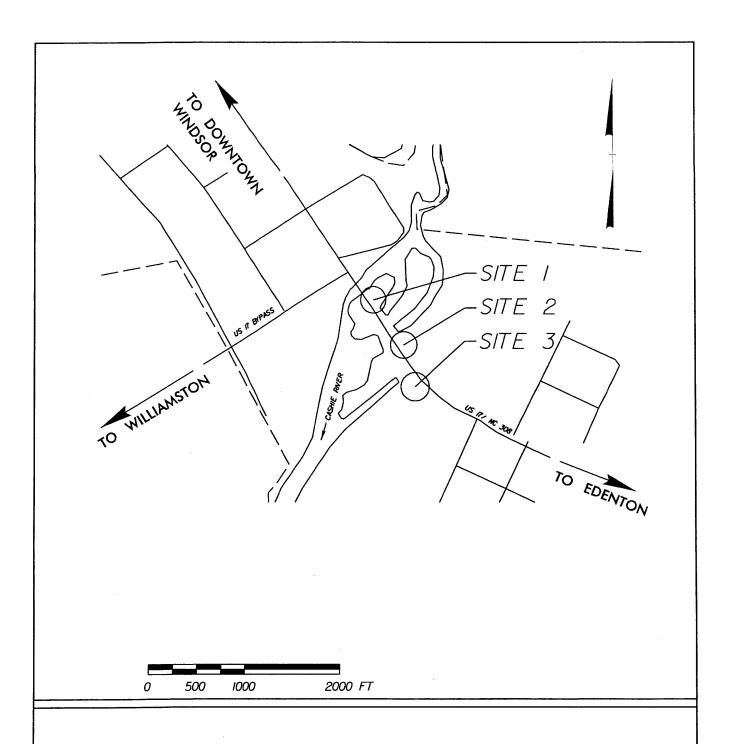
BERTIE COUNTY

REPLACE BRIDGE NO. 14 ON US 17/NC 308 OVER CASHIE RIVER

SHEET 2 OF 13

MAY 2008

Permit Drawing 3neet 2 of 13



SITE MAP

NCDOT

DIVISION OF HIGHWAYS PROJECT: 33700.1.1 (B-4434)

BERTIE COUNTY

REPLACE BRIDGE NO. 14 ON US 17/NC 308 OVER CASHIE RIVER

SHEET 3 OF 13

MAY 2008

Permit Drawing Sheet 3 of

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		Natural		۵	(ft)															
0 + 0	ACIS	Existing Channel	Impacts	Temp.	(¥)															
	51	Existing Channel		ent	(#)															
IRY	SURFACE	Temp.	SW	impacts	(ac)															
CT SUMMA		Permanent			(ac)															
MIT IMPA		Hand Clearing	.⊑	≥	(ac)	0.02		0.05		0.02										0.09
WETLAND PERMIT IMPACT SUMMARY	212	Mechanized	in Clearing	in Wetlands	(ac)															
WE	WEILAND IMPACIS	Excavation	.⊑	Wetlands	(ac)															
	WEI			qs	(ac)															
		Permanent	Fill In	Wetlands	(ac)	0:030		0.135		0.054						-				0.22
			Structure	Size / Type						-			The state of the s							
			Station	(From/To)		15+94 +/- LT TO	16+86 +/- LT	19+36 +/- LT TO	24+32 +/- LT	22+90 +/- RT TO	24+49 +/- RT									
			Site	ė Š		-		2		က										TOTALS:

BRIDGE PIER IMPACTS

STAGE I TEMPORARY WORK BRIDGE = 20 SQ. FT. STAGE II TEMPORARY WORK BRIDGE = 24 SQ. FT. PROPOSED PERMANENT BRIDGE = 112 SQ. FT.

Permit Drawing Sheet 4 of Sheet

NC DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

US 17/ NC 308 BRIDGE #14 OVER CASHIE RIVER WBS - 33700.1.1 (B-4434) BERTIE COUNTY

MAY 2008

SHEET 12 OF 13

EROSION CONTROL IMPACTS

0.05 acres of Temporary Fill in Wetlands in the Hand Clearing areas for erosion control measures.

ATN Revised 3/31/05

PROPERTY OWNER

SITE #	OWNER'S NAME	ADDRESS
SITE 1	H. L. THOMPSON, ET. AL.	611 GREENE CROSS ROAD WINDSOR, NC 27983
SITE 2	H. L. THOMPSON	611 GREENE CROSS ROAD WINDSOR, NC 27983
SITE 3	JOHN E. SHERRON	4323 BREEZE ROAD HURDLE MILLS, NC 27541
	BROWNE-BRITTON, INC.	P.O. BOX 1386 AHOSKIE, NC 27910

NCDOT

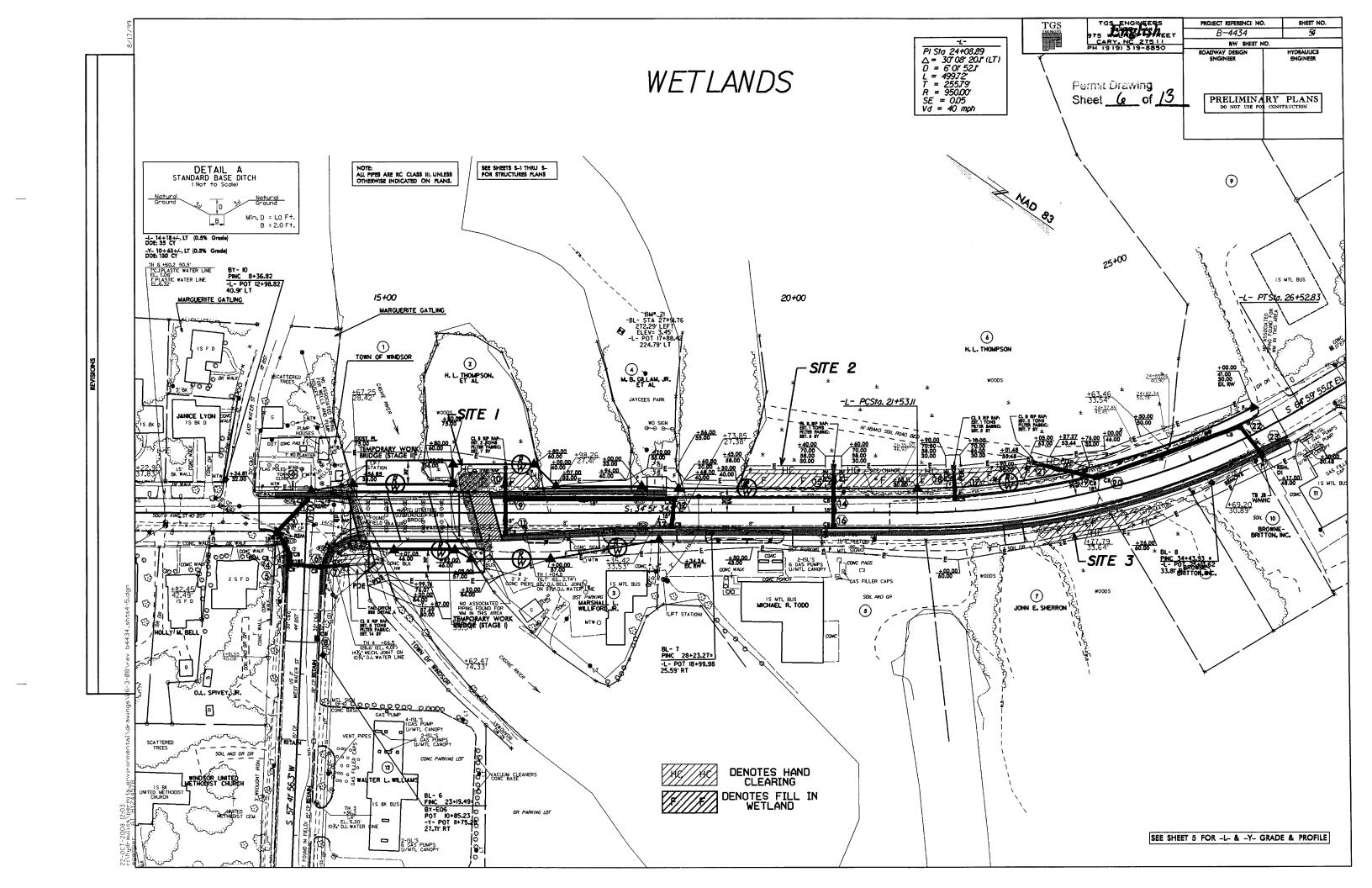
DIVISION OF HIGHWAYS BERTIE COUNTY PROJECT: 33700.1.1 (B-4434)

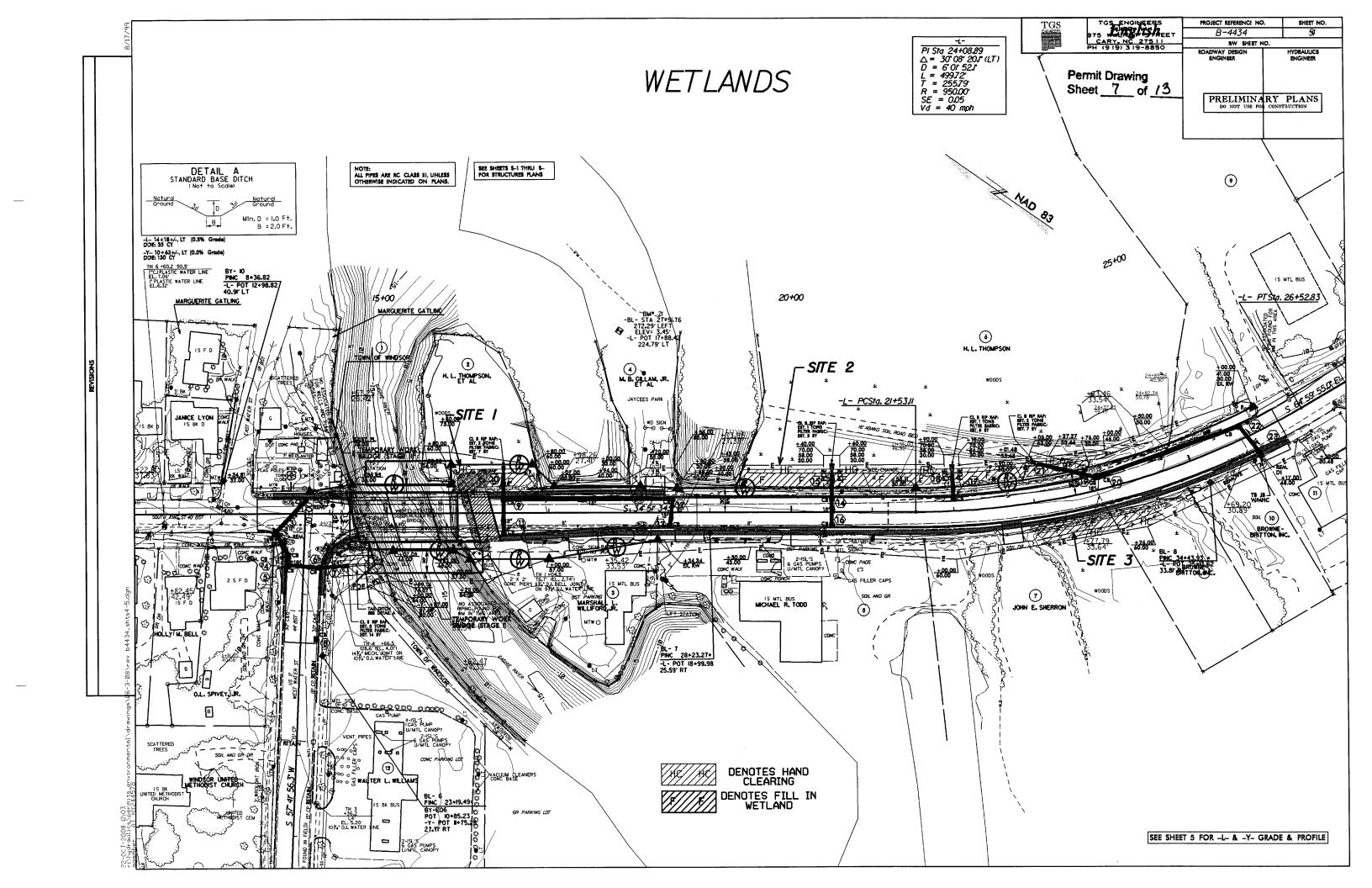
BRIDGE NO.14 ON US 17/NC 308 OVER CASHIE RIVER

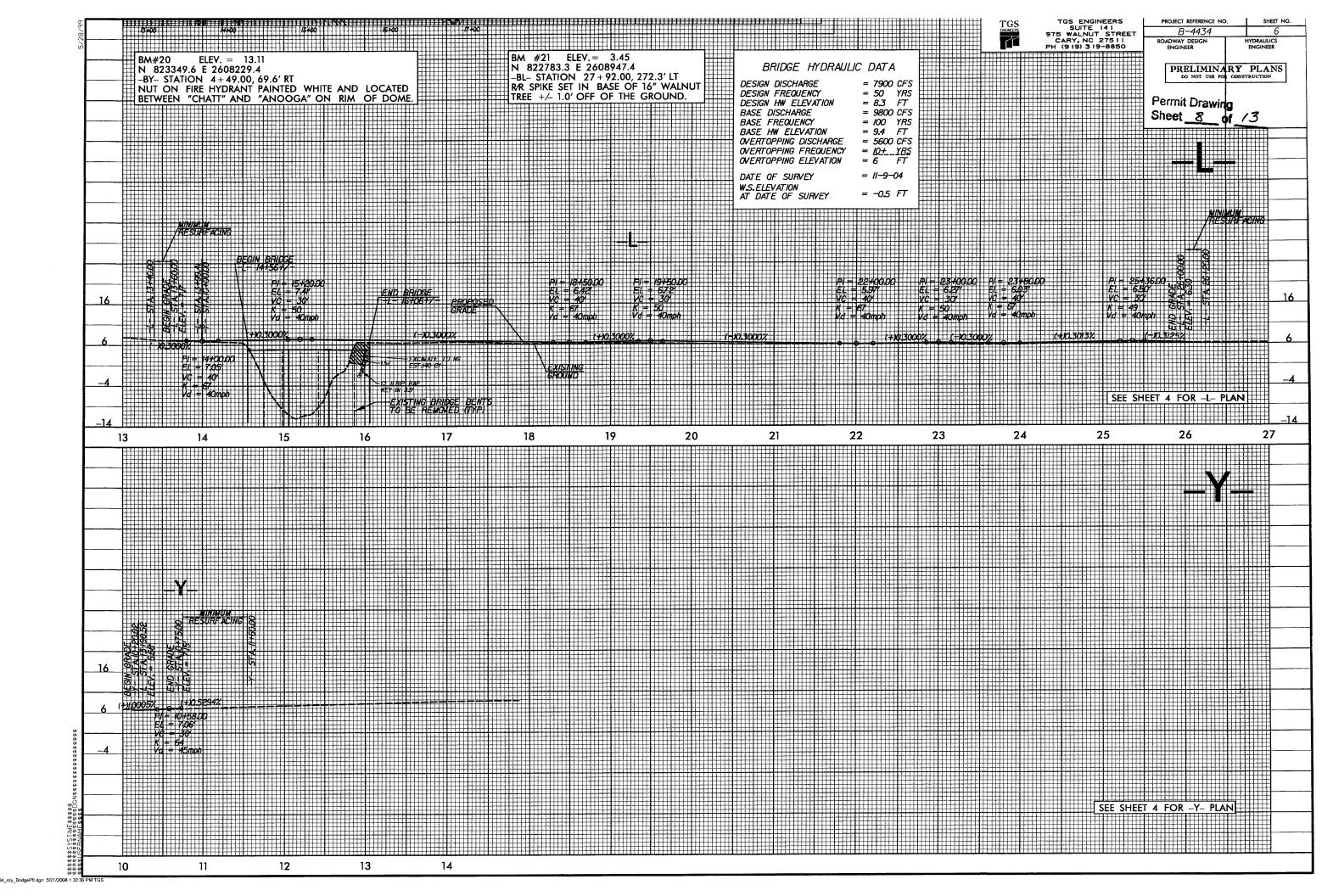
SHEET 13 OF 13

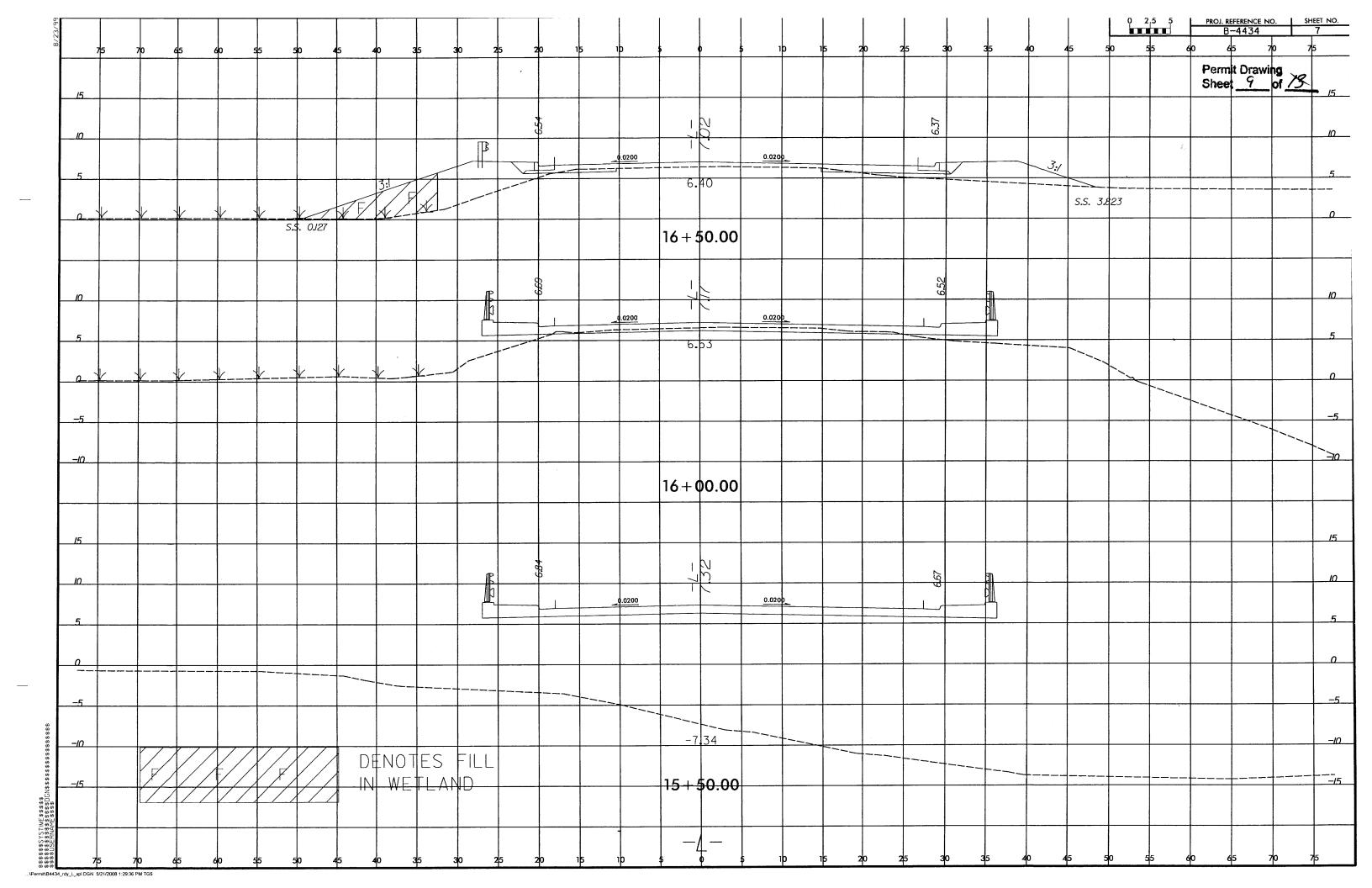
MAY 2008

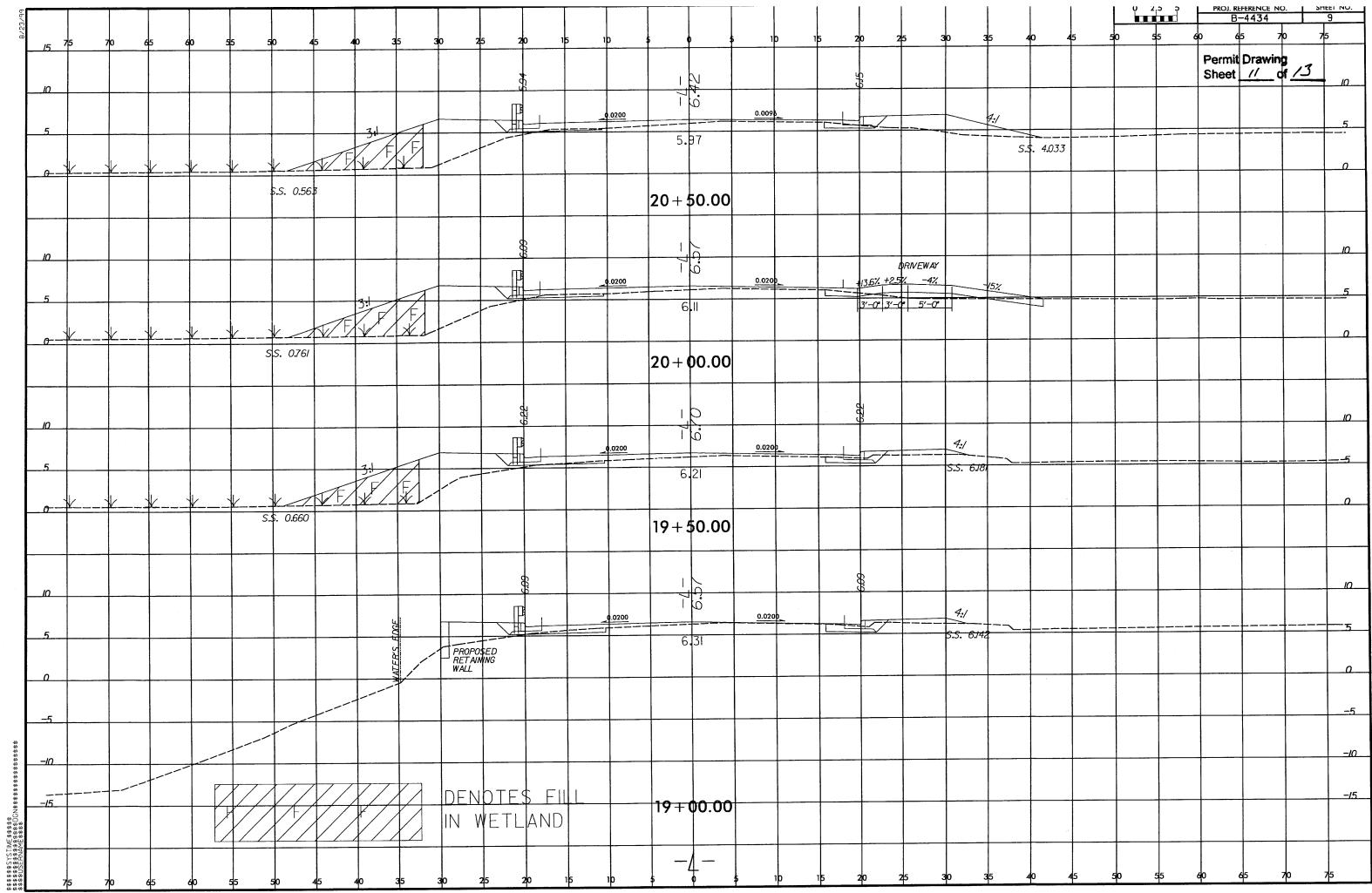
Permit Drawing Sheet 5 of 13

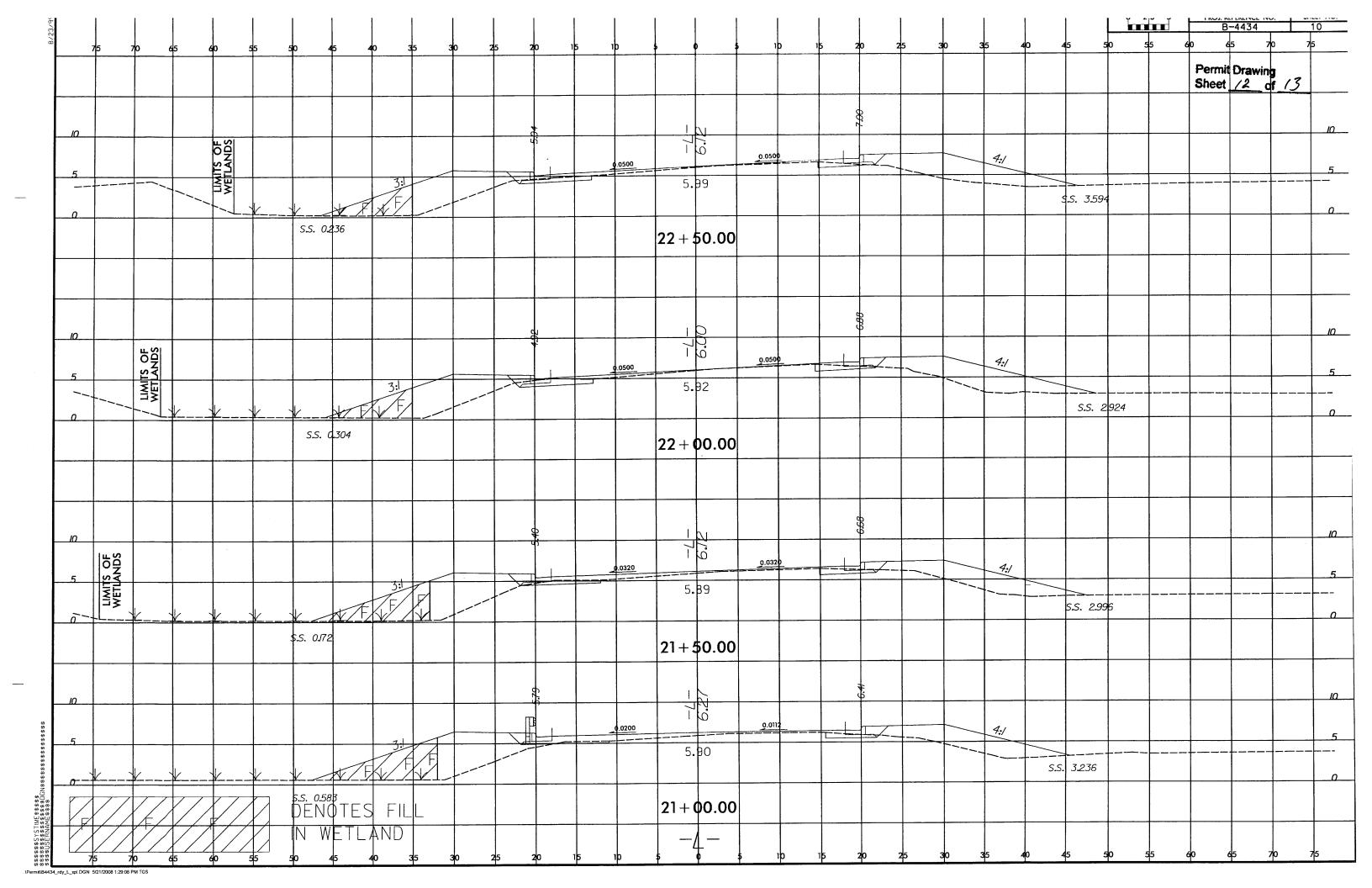


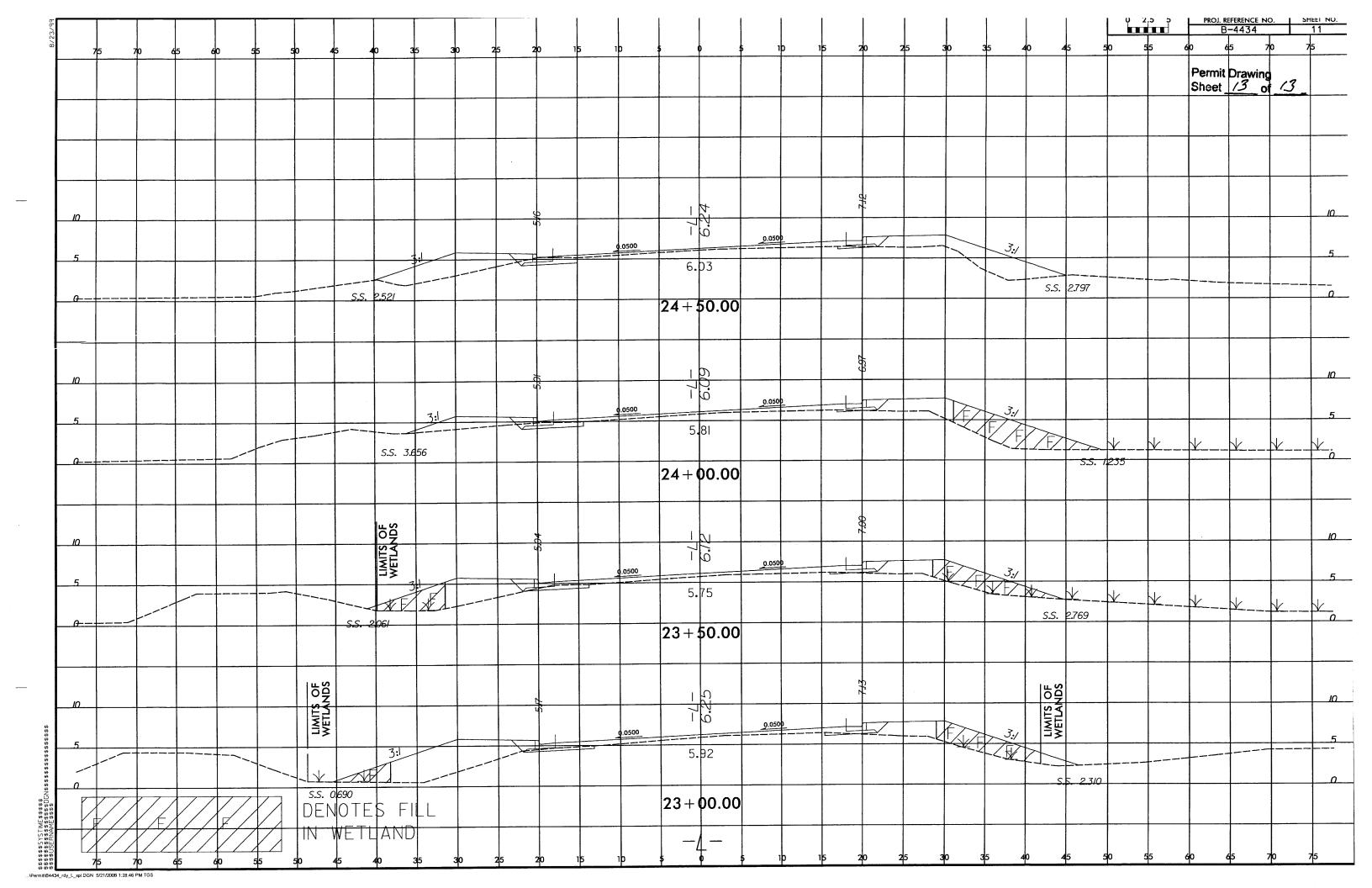












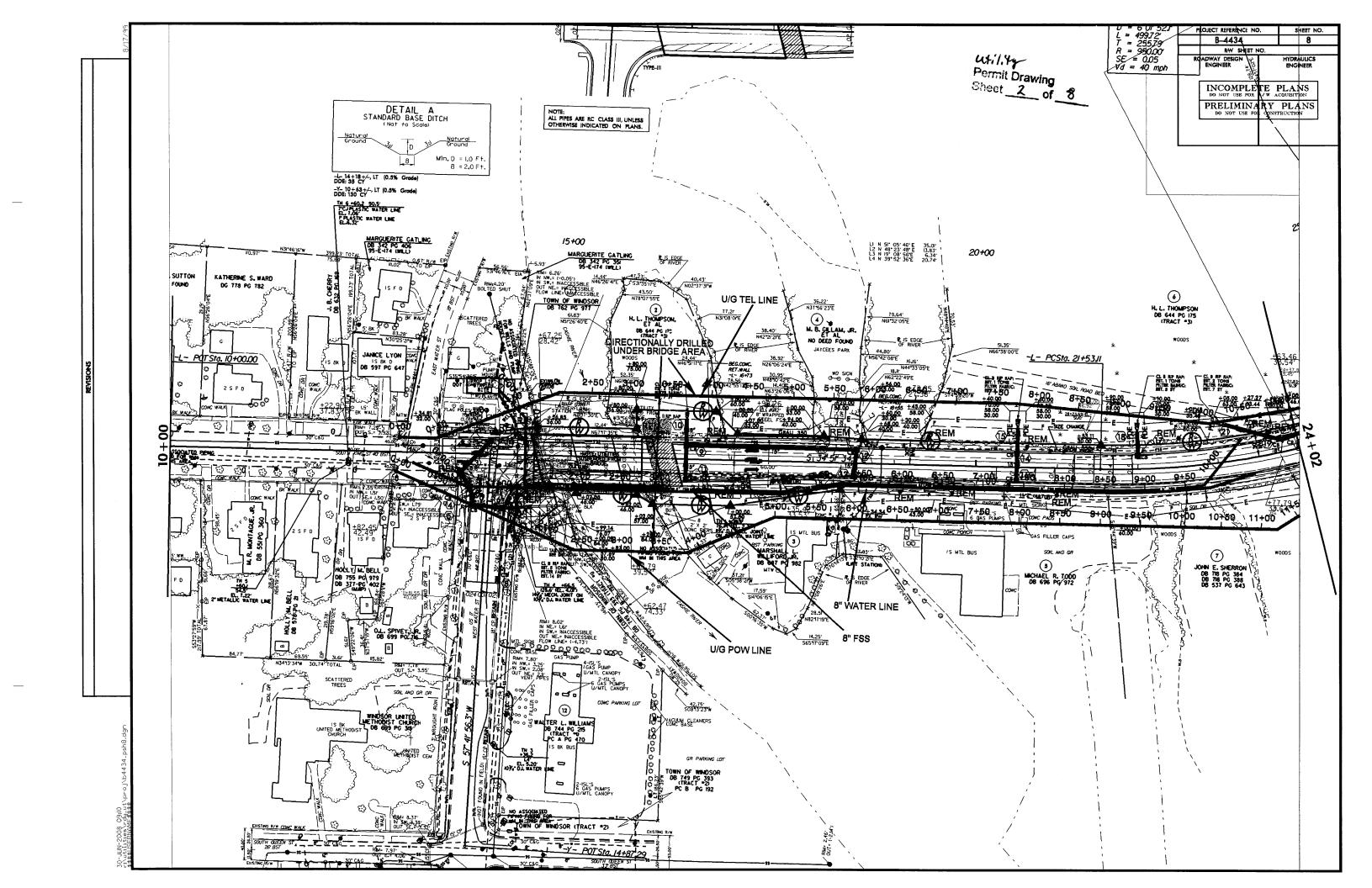
Utility Narrative

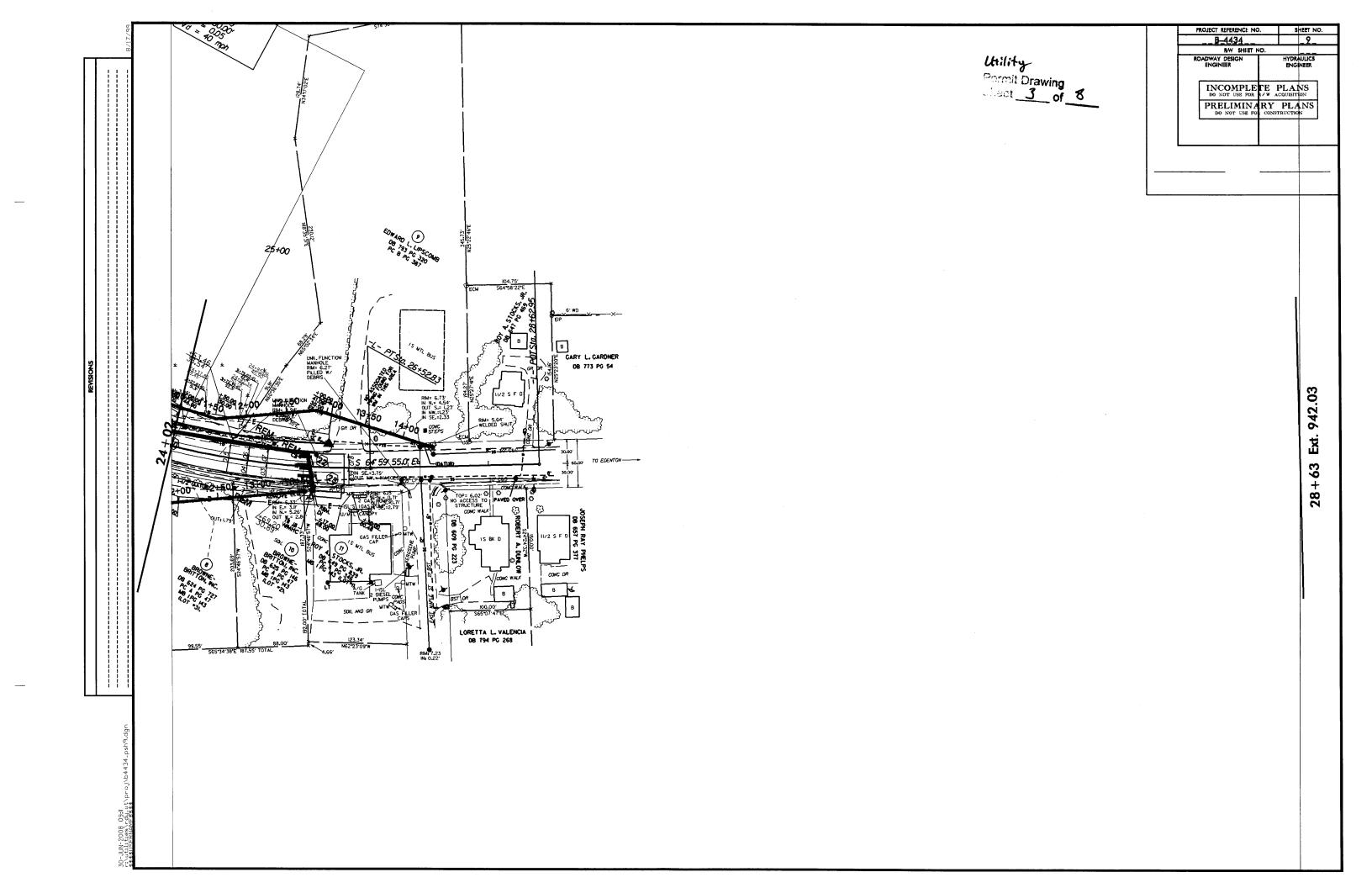
Telephone and Power

The aerial telephone and power lines will be dismantled and removed after new underground power and telephone facilities are installed. The proposed underground power is being installed on the southwest side of King Street by directional bore and open cut. The proposed underground telephone is being installed on the northeast side of King Street by directional bore and open cut. The power is owned by the Town of Windsor and the telephone by Embarq. All lines will be installed by directional bore under Cashie River.

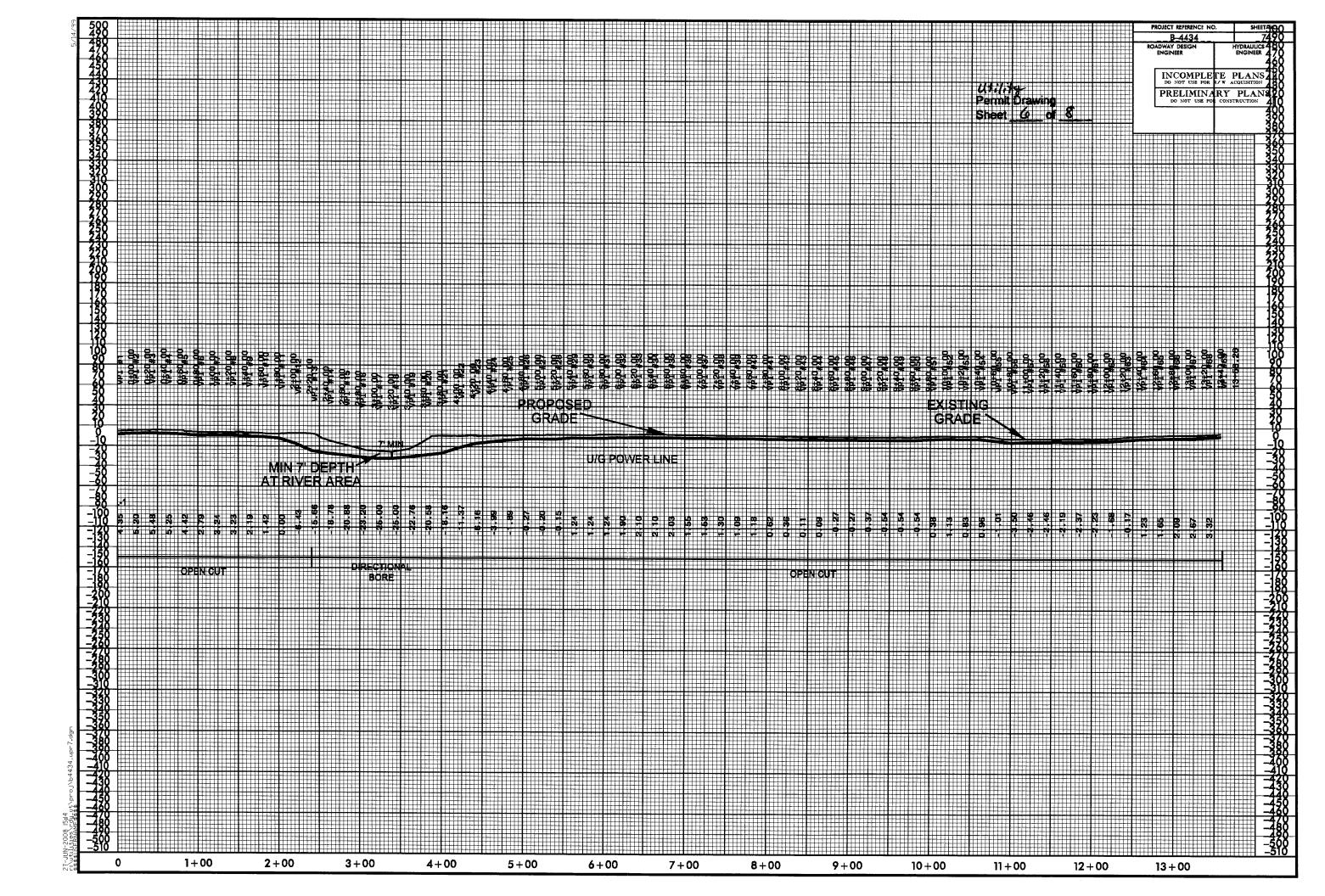
Water and Sewer

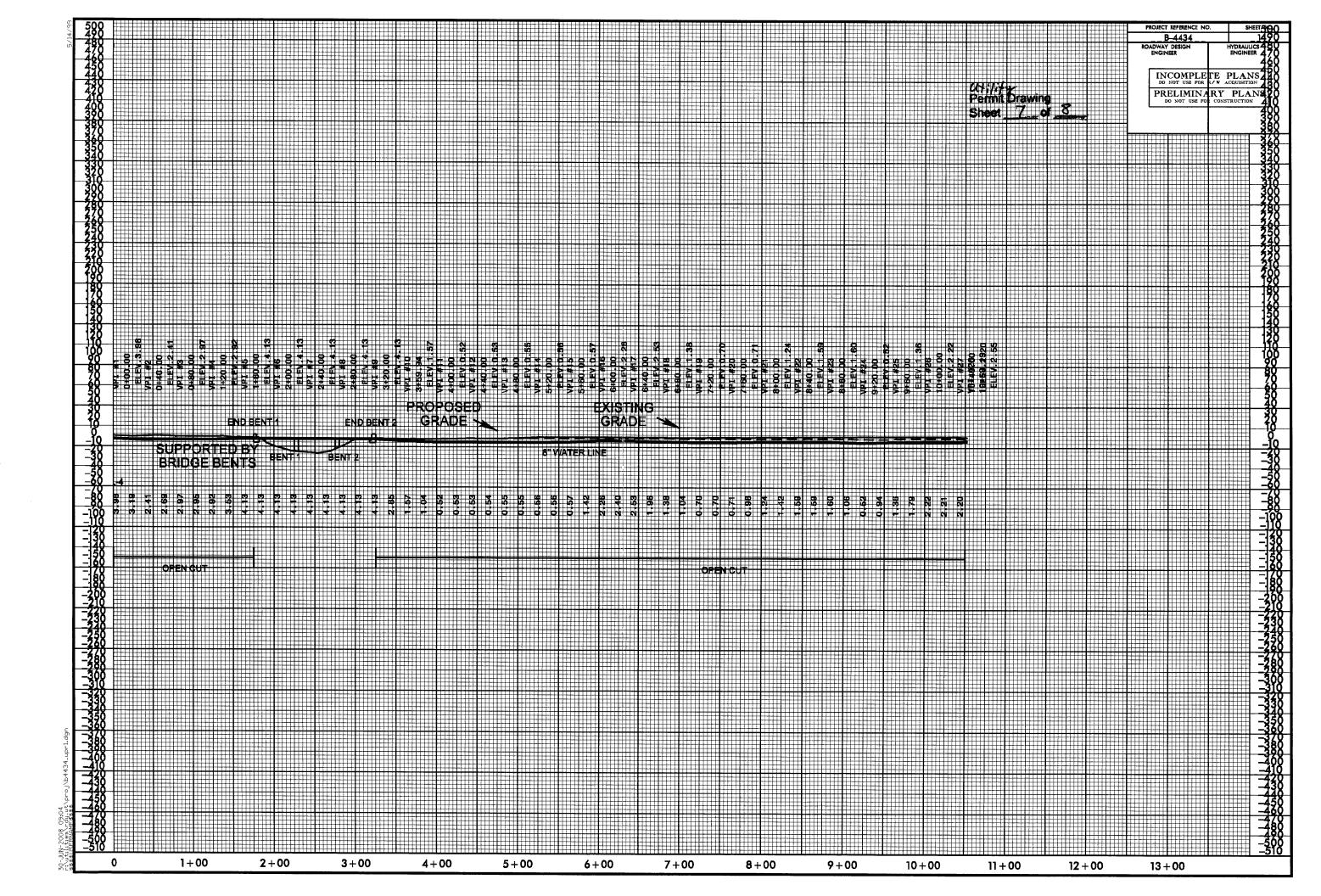
The existing 8" water line and forcemain will be abandoned after a new 8" water line and forcemain are installed on the southwest side of King Street by directional bore and open cut. The water line and forcemain are owned by the Town of Windsor. All lines will be installed by directional bore under Cashie River.

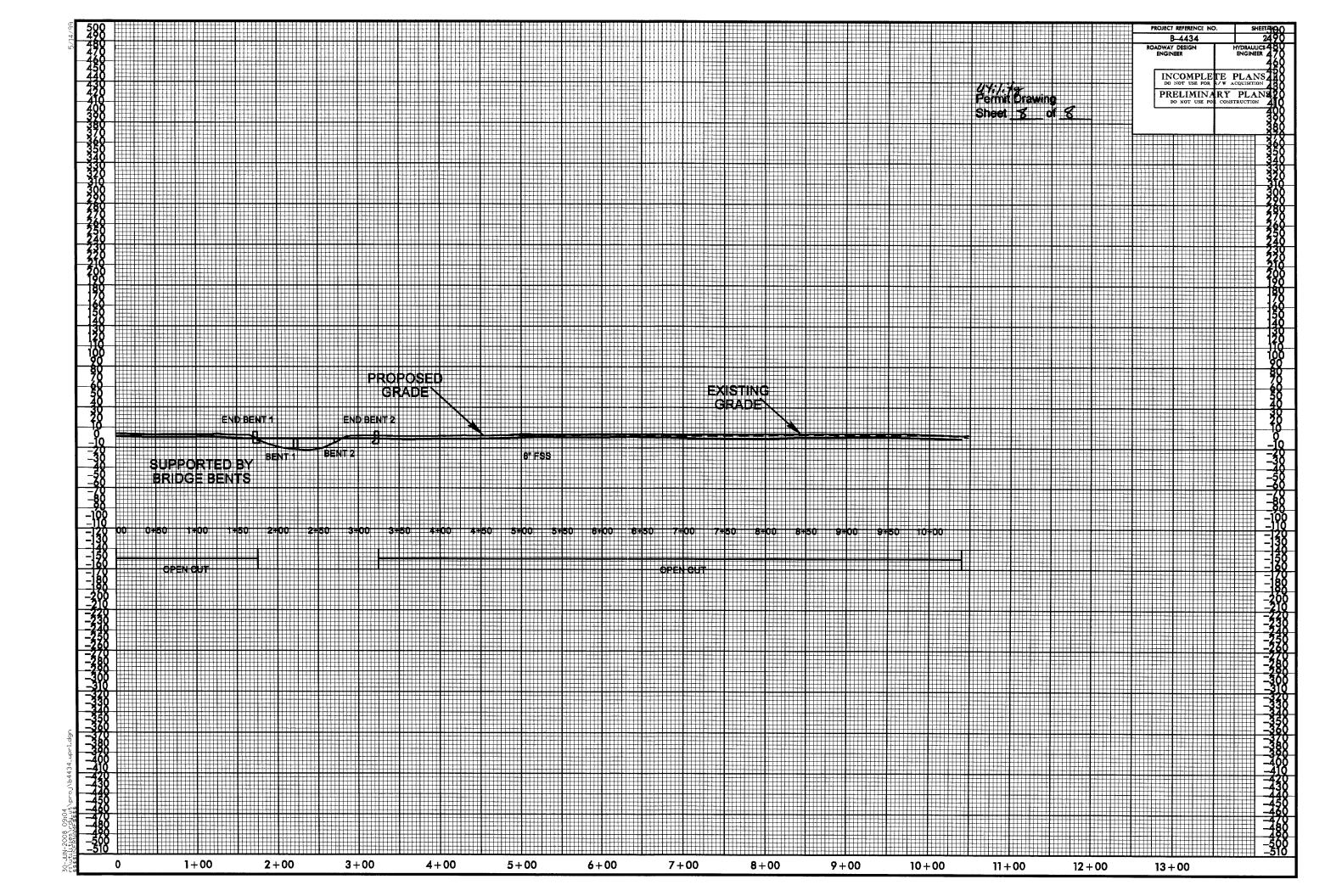


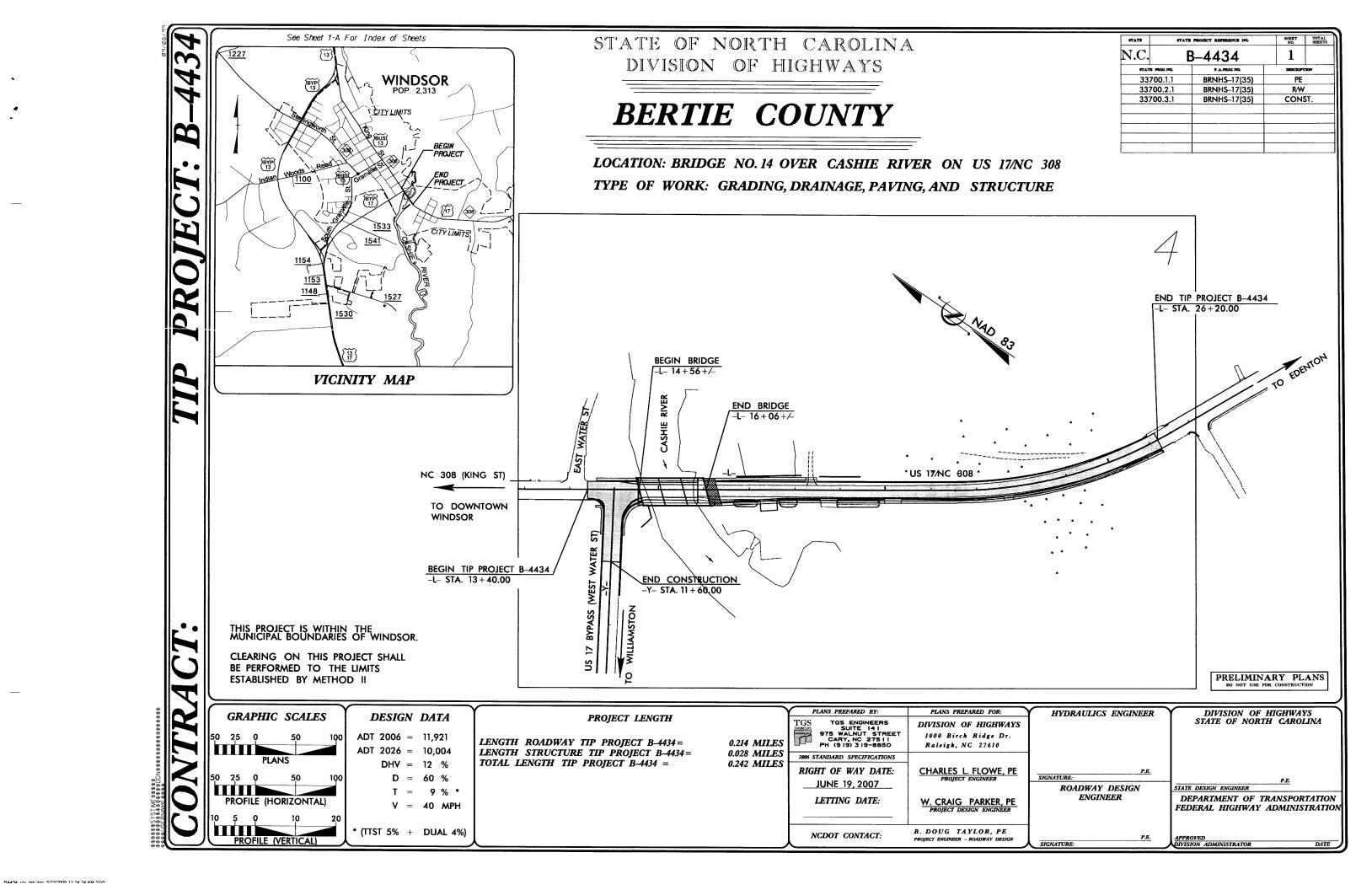


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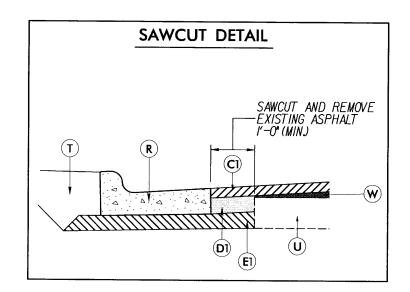
STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

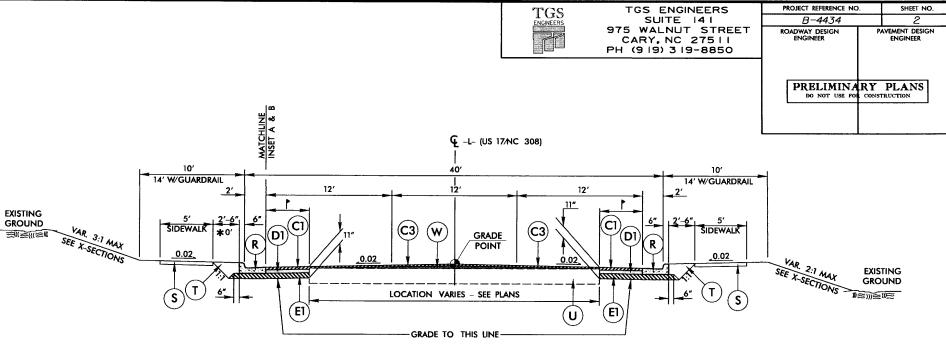
CONVENTIONAL PLAN SHEET SYMBOLS

					WATER:	
BOUNDARIES AND PROPERTY:					Water Manhole	
State Line ————————————————————————————————————	RAILROADS:				Water Meter	
County Line	Standard Gauge	CSY TRANSPORTATION			Water Valve	
Township Line			EXISTING STRUCTURES:		Water Hydrant	- •◊
City Line			MAJOR:		Recorded U/G Water Line	
Reservation Line		SWII CH	Bridge, Tunnel or Box Culvert ———— [CONC	Designated U/G Water Line (S.U.E.*)	
Property Line ————————————————————————————————————			Bridge Wing Wall, Head Wall and End Wall -	CONC WW (Above Ground Water Line	— A/G Water
Existing Iron Pin ——————————————————————————————————			MINOR:			
Property Corner ———————————————————————————————————	RIGHT OF WAY:	•	Head and End Wall	CONC HW	TV:	
roperty Monument	baseline Control Point	•	Pipe Culvert		TV Satellite Dish	- &
arcel/Sequence Number (23)	Existing Right of Way Marker	−	Footbridge		TV Pedestal ————————————————————————————————————	- C
xisting Fence Line ————————————————————————————————————	Existing Right of Way Line		Drainage Box: Catch Basin, DI or JB	СВ	TV Tower	- 🛇
-	rroposed Right of Way Line	 	Paved Ditch Gutter		U/G TV Cable Hand Hole	_
Proposed Woven Wire Fence	rroposed Right of Way Line With		Storm Sewer Manhole		Recorded U/G TV Cable —	
roposed Chain Link Fence		•	Storm Sewer ———————————————————————————————————		Designated U/G TV Cable (S.U.E.*)	
Proposed Barbed Wire Fence	Concrete or Granite Marker	— 			Recorded U/G Fiber Optic Cable	
xisting Wetland Boundary	Existing Control of Access	(Ē)	UTILITIES:		Designated U/G Fiber Optic Cable (S.U.E.*)-	
roposed Wetland Boundary	Proposed Control of Access	\@/	POWER:		Designated GG Tiber Opiic Cable (3.0.L.)	,,,,
xisting Endangered Animal Boundary ————————————————————————————————————	Existing Easement Line	•	Existing Power Pole	_	GAS:	
xisting Endangered Plant Boundary ————————————————————————————————————	Proposed Temporary Construction Easement	_	Proposed Power Pole	Ţ	Gas Valve	-
BUILDINGS AND OTHER CULTURE:	Proposed Temporary Drainage Easement		Existing Joint Use Pole	O I	Gas Meter	•
as Pump Vent or U/G Tank Cap ——— O	Proposed Permanent Drainage Easement —		Proposed Joint Use Pole			•
gn	Proposed Permanent Utility Easement		Power Manhole ————	-0-	Recorded U/G Gas Line	
'ell	Troposod Formation Chiny Edsement			®	Designated U/G Gas Line (S.U.E.*)	
nall Mine 💮 🗴	ROADS AND RELATED FEATU	RES:	Power Line Tower	\boxtimes	Above Ground Gas Line	470 003
oundation —	Existing Edge of Pavement		Power Transformer	\square		
rea Outline	Existing Curb		U/G Power Cable Hand Hole	Нн	SANITARY SEWER:	
emetery	Proposed Slope Stakes Cut	<u>c</u>	H-Frame Pole	••	Sanitary Sewer Manhole	
uilding ————————————————————————————————————	Proposed Slope Stakes Fill		Recorded U/G Power Line		Sanitary Sewer Cleanout	•
chool	Proposed Wheel Chair Ramp		Designated U/G Power Line (S.U.E.*)		U/G Sanitary Sewer Line ——————	
hurch	Curb Cut for Future Wheel Chair Ramp				Above Ground Sanitary Sewer —————	
Dam ————————————————————————————————————	Existing Metal Guardrail		TELEPHONE:		Recorded SS Forced Main Line	FSS
uiii —————	Proposed Guardrail		Existing Telephone Pole —————		Designated SS Forced Main Line (S.U.E.*) —	Fss
YDROLOGY:	Existing Cable Guiderail		Proposed Telephone Pole	-0-		
tream or Body of Water	Proposed Cable Guiderail		Telephone Manhole	T	MISCELLANEOUS:	
ydro, Pool or Reservoir ————————————————————————————————————	Equality Symbol		Telephone Booth	3	Utility Pole	- •
urisdictional Stream		•	Telephone Pedestal	T	Utility Pole with Base —	- 🖸
uffer Zone 1			Telephone Cell Tower	,	Utility Located Object	- <u>O</u>
uffer Zone 2 ———————————————————————————————————	VEGETATION:		U/G Telephone Cable Hand Hole	H _H	Utility Traffic Signal Box —	- <u>S</u>
ow Arrow———————————————————————————————————			Recorded U/G Telephone Cable	т——т	Utility Unknown U/G Line	
sappearing Stream ————————————————————————————————————	Single Sinds		Designated U/G Telephone Cable (S.U.E.*) — —		U/G Tank; Water, Gas, Oil ——————	
oring ————————————————————————————————————	Hedge ———————————————————————————————————		Recorded U/G Telephone Conduit		A/G Tank; Water, Gas, Oil	
wamp Marsh ————————————————————————————————————	Woods Line		Designated U/G Telephone Conduit (S.U.E.*)		U/G Test Hole (S.U.E.*)	L
roposed Lateral, Tail, Head Ditch ————————————————————————————————————	Orchard ————————————————————————————————————	— 중 중 중 중	Recorded U/G Fiber Optics Cable ————————————————————————————————————		Abandoned According to Utility Records —	_
alse Sump ———————	Vineyard ————————————————————————————————————		Designated U/G Fiber Optics Cable (S.U.E.*) -		End of Information	_

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

WEDGING EXISTING PAVEMENT. (SEE STD.DETAILS, THIS SHEET)

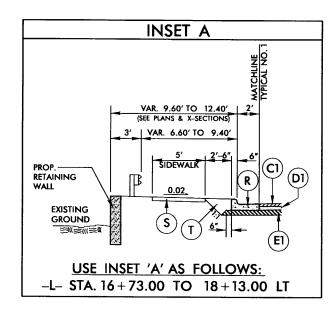


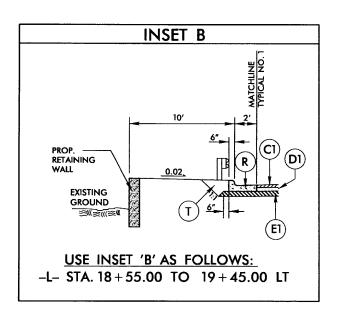


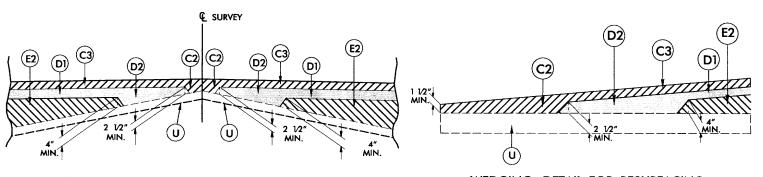
TYPICAL SECTION NO. 1

USE TYPICAL SECTION NO. 1 AS FOLLOWS:

- * -L- STA. 13+40.00 TO 14+56+/- (BEGIN BRIDGE) -L- STA. 16+06+/- (END BRIDGE) TO 26+20.00
- NOTE: FOR AREAS <1'-0" USE SAWCUT DETAIL (THIS SHEET)







DETAIL SHOWING METHOD OF WEDGING

WEDGING DETAIL FOR RESURFACING

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	PAVEMENT SCHEDULE
C1	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
C2	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE \$9.5B, AT AN AVERAGE RATE OF 112 LBS. PER \$Q. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 1½" IN DEPTH OR GREATER THAN 1½" IN DEPTH.
СЗ	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E1	PROP. APPROX. 4.0" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E2	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5½" IN DEPTH.
R	2'X6" CONCRETE CURB.
S	4" CONCRETE SIDEWALK.
Т	EARTH MATERIAL.
U	EXISTING PAVEMENT.
w	WEDGING EXISTING PAVEMENT. (SEE STD.DETAILS, SHEET 2)

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

