



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR.
SECRETARY

January 19, 2012

U. S. Army Corps of Engineers
Regulatory Field Office
151 Patton Avenue, Room 208
Asheville, NC 28801-5006

ATTN: Ms. Lori Beckwith
NCDOT Coordinator

Subject: **Application for Section 404 Regional General Permit 31** for the proposed replacement of Bridges No. 235 & No. 238 over Hominy Creek and SR 3431(Pond Rd.) on I-26 in Buncombe County, Federal Aid Project No. BRZ-1326(3); Division 13; TIP No. B-5178, WBS Element 42549.1.1.

Dear Madam:

The North Carolina Department of Transportation (NCDOT) proposes to replace Bridges No. 235 and No. 238 over Hominy Creek and SR 3431 (Pond Rd.) on I-26 with a single 4 span, pre-stressed concrete girder bridge. There will be 304 feet of temporary impacts to surface waters that will result from causeways utilized in bridge demolition and construction. There will be no permanent impacts to surface water resulting from this project.

Please see enclosed copies of the Pre-Construction Notification (PCN), stormwater management plan, NCDOT Mussel Survey Memo, Preliminary Jurisdictional Determination, permit drawings, and design plans for the above-referenced project. The Programmatic Categorical Exclusion (PCE) was completed in December 2010 and was 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

attachment, NCDOT hereby requests NCWRC review. NCDOT request 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 August 21, 2012 and a review date of June 26, 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 e-mail Jeff Hemphill at jhemphill@ncdot.gov.

Sincerely,



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

Cc: NCDOT Permit Application Standard Distribution List
File



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:	<input checked="" type="checkbox"/> Section 404 Permit	<input type="checkbox"/> Section 10 Permit
1b. Specify Nationwide Permit (NWP) number:		or General Permit (GP) number: 198200031
1c. Has the NWP or GP number been verified by the Corps?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
1d. Type(s) of approval sought from the DWQ (check all that apply):		
<input type="checkbox"/> 401 Water Quality Certification – Regular <input type="checkbox"/> Non-404 Jurisdictional General Permit <input type="checkbox"/> 401 Water Quality Certification – Express <input type="checkbox"/> Riparian Buffer Authorization		
1e. Is this notification solely for the record because written approval is not required?	For the record only for DWQ 401 Certification: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	For the record only for Corps Permit: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
1f. 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.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
1g. Is the project located in any of NC's twenty coastal counties. If yes, answer 1h below.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
1h. Is the project located within a NC DCM Area of Environmental Concern (AEC)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

2. Project Information

2a. Name of project:	Replacement of Bridges 235 & 238 on I-26 over Hominy Creek & SR 3431
2b. County:	Buncombe
2c. Nearest municipality / town:	Asheville
2d. Subdivision name:	<i>not applicable</i>
2e. NCDOT only, T.I.P. or state project no:	B-5178

3. Owner Information

3a. Name(s) on Recorded Deed:	North Carolina Department of Transportation
3b. Deed Book and Page No.	<i>not applicable</i>
3c. Responsible Party (for LLC if applicable):	<i>not applicable</i>
3d. Street address:	1598 Mail Service Center
3e. City, state, zip:	Raleigh, NC 27699-1598
3f. Telephone no.:	(919) 707-6126
3g. Fax no.:	(919) 212-5785
3h. Email address:	jhemphill@ncdot.gov

4. Applicant Information (if different from owner)	
4a. Applicant is:	<input type="checkbox"/> Agent <input type="checkbox"/> Other, specify:
4b. Name:	<i>not applicable</i>
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 (if applicable)	
5a. Name:	<i>not applicable</i>
5b. Business name (if applicable):	
5c. Street address:	
5d. City, state, zip:	
5e. Telephone no.:	
5f. Fax no.:	
5g. Email address:	

B. Project Information and Prior Project History	
1. Property Identification	
1a. Property identification no. (tax PIN or parcel ID):	<i>not applicable</i>
1b. Site coordinates (in decimal degrees):	Latitude: 35.5456 (DD.DDDDDD) Longitude: - 82.6046 (-DD.DDDDDD)
1c. Property size:	4.75 acres
2. Surface Waters	
2a. Name of nearest body of water (stream, river, etc.) to proposed project:	French Broad River
2b. Water Quality Classification of nearest receiving water:	C
2c. River basin:	French Broad
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: Urban - commercial	
3b. List the total estimated acreage of all existing wetlands on the property: 0	
3c. List the total estimated linear feet of all existing streams (intermittent and perennial) on the property: 1,248	
3d. Explain the purpose of the proposed project: To replace structurally deficient (and/ or) functionally obsolete bridges.	
3e. Describe the overall project in detail, including the type of equipment to be used: The project involves replacing (2) 4 span, 250' & 319' steel girder bridges with a 330.5' x 155' 4 spans, pre-stressed concrete girder bridge. Standard road building equipment, such as trucks, dozers, and cranes will be used.	
4. Jurisdictional Determinations	
4a. Have jurisdictional wetland or stream determinations by the Corps or State been requested or obtained for this property / project (including all prior phases) in the past? Comments: Yes	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown
4b. If the Corps made the jurisdictional determination, what type of determination was made?	<input checked="" type="checkbox"/> Preliminary <input type="checkbox"/> Final
4c. If yes, who delineated the jurisdictional areas? Name (if known): Elizabeth Scherrer	Agency/Consultant Company: EcoScience Other:
4d. If yes, list the dates of the Corps jurisdictional determinations or State determinations and attach documentation. October 11, 2011	
5. Project History	
5a. Have permits or certifications been requested or obtained for this project (including all prior phases) in the past?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown
5b. If yes, explain in detail according to "help file" instructions.	
6. Future Project Plans	
6a. Is this a phased project?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
6b. If yes, explain. This project was split from I-2513	

C. Proposed Impacts Inventory						
1. Impacts Summary						
1a. Which sections were completed below for your project (check all that apply):						
<input type="checkbox"/> Wetlands <input checked="" type="checkbox"/> Streams - tributaries <input type="checkbox"/> Buffers <input type="checkbox"/> Open Waters <input type="checkbox"/> Pond Construction						
2. Wetland Impacts						
If there are wetland impacts proposed on the site, then complete this question for each wetland area impacted.						
2a. Wetland impact number – Permanent (P) or Temporary (T)	2b. Type of impact	2c. Type of wetland (if known)	2d. Forested	2e. Type of jurisdiction (Corps - 404, 10 DWQ – non-404, other)	2f. Area of impact (acres)	
Site 1 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site 2 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site 3 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site 4 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site 5 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site 6 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
2g. Total wetland impacts						
2h. Comments:						
3. Stream Impacts						
If there are perennial or intermittent stream impacts (including temporary impacts) proposed on the site, then complete this question for all stream sites impacted.						
3a. Stream impact number - Permanent (P) or Temporary (T)	3b. Type of impact	3c. Stream name	3d. Perennial (PER) or intermittent (INT)?	3e. Type of jurisdiction (Corps - 404, 10 DWQ – non-404, other)	3f. Average stream width (feet)	3g. Impact length (linear feet)
Site 1 <input type="checkbox"/> P <input checked="" type="checkbox"/> T	Causeway	Hominy Creek	<input checked="" type="checkbox"/> PER <input type="checkbox"/> INT	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	33	304
Site 2 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site 3 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site 4 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site 5 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site 6 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
3h. Total stream and tributary impacts						304 Temp
3i. Comments:						

4. Open Water Impacts								
If there are proposed impacts to lakes, ponds, estuaries, tributaries, sounds, the Atlantic Ocean, or any other open water of the U.S. then individually list all open water impacts below.								
4a. Open water impact number – Permanent (P) or Temporary (T)	4b. Name of waterbody (if applicable)	4c. Type of impact			4d. Waterbody type	4e. Area of impact (acres)		
O1 <input type="checkbox"/> P <input type="checkbox"/> T								
O2 <input type="checkbox"/> P <input type="checkbox"/> T								
O3 <input type="checkbox"/> P <input type="checkbox"/> T								
O4 <input type="checkbox"/> P <input type="checkbox"/> T								
4f. Total open water impacts						X Permanent X Temporary		
4g. Comments:								
5. Pond or Lake Construction								
If pond or lake construction proposed, then complete the chart below.								
5a. Pond ID number	5b. Proposed use or purpose of pond	5c. Wetland Impacts (acres)			5d. Stream Impacts (feet)			5e. Upland (acres)
		Flooded	Filled	Excavated	Flooded	Filled	Excavated	Flooded
P1								
P2								
5f. Total								
5g. Comments:								
5h. Is a dam high hazard permit required?				<input type="checkbox"/> Yes <input type="checkbox"/> No If yes, permit ID no:				
5i. Expected pond surface area (acres):								
5j. Size of pond watershed (acres):								
5k. Method of construction:								

6. Buffer Impacts (for DWQ)

If project will impact a protected riparian buffer, then complete the chart below. If yes, then individually list all buffer impacts below. If any impacts require mitigation, then you **MUST** fill out Section D of this form.

6a. Project is in which protected basin?			<input type="checkbox"/> Neuse <input type="checkbox"/> Catawba	<input type="checkbox"/> Tar-Pamlico <input type="checkbox"/> Randleman	<input type="checkbox"/> Other:
6b. Buffer impact number – Permanent (P) or Temporary (T)	6c. Reason for impact	6d. Stream name	6e. Buffer mitigation required?	6f. Zone 1 impact (square feet)	6g. Zone 2 impact (square feet)
B1 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No		
B2 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No		
B3 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No		
6h. Total buffer impacts					
6i. Comments:					

D. Impact Justification and Mitigation		
1. Avoidance and Minimization		
1a. Specifically describe measures taken to avoid or minimize the proposed impacts in designing project. The existing bridges will be utilized as onsite detours during staged demolition & construction thereby reducing impacts from a temporary onsite detour.		
1b. Specifically describe measures taken to avoid or minimize the proposed impacts through construction techniques. No deck drains will be on the proposed bridge and stormwater will be discharged as far away from the stream as possible. Grass ditches will be used to convey runoff where possible. No interior bents will be located in Hominy Creek thereby avoiding permanent impacts from this project. Hominy Creek is listed on the NCDWQ 2010 303(d) list for turbidity; therefore, Design Standards in Sensitive Watersheds will be implemented for this project.		
2. Compensatory Mitigation for Impacts to Waters of the U.S. or Waters of the State		
2a. Does the project require Compensatory Mitigation for impacts to Waters of the U.S. or Waters of the State?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If no, explain:	
2b. If yes, mitigation is required by (check all that apply):	<input type="checkbox"/> DWQ <input type="checkbox"/> Corps	
2c. If yes, which mitigation option will be used for this project?	<input type="checkbox"/> Mitigation bank <input type="checkbox"/> Payment to in-lieu fee program <input type="checkbox"/> Permittee Responsible Mitigation	
3. Complete if Using a Mitigation Bank		
3a. Name of Mitigation Bank: not applicable		
3b. Credits Purchased (attach receipt and letter)	Type	Quantity
3c. Comments:		
4. Complete if Making a Payment to In-lieu Fee Program		
4a. Approval letter from in-lieu fee program is attached.	<input type="checkbox"/> Yes	
4b. Stream mitigation requested:	0 linear feet	
4c. If using stream mitigation, stream temperature:	<input type="checkbox"/> warm <input type="checkbox"/> cool <input type="checkbox"/> cold	
4d. Buffer mitigation requested (DWQ only):	square feet	
4e. Riparian wetland mitigation requested:	acres	
4f. Non-riparian wetland mitigation requested:	acres	
4g. Coastal (tidal) wetland mitigation requested:	acres	
4h. Comments:		
5. Complete if Using a Permittee Responsible Mitigation Plan		
5a. If using a permittee responsible mitigation plan, provide a description of the proposed mitigation plan.		

6. Buffer Mitigation (State Regulated Riparian Buffer Rules) – required by DWQ				
6a. Will the project result in an impact within a protected riparian buffer that requires buffer mitigation?				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
6b. If yes, then identify the square feet of impact to each zone of the riparian buffer that requires mitigation. Calculate the amount of mitigation required.				
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. Comments:				

E. Stormwater Management and Diffuse Flow Plan (required by DWQ)	
1. Diffuse Flow Plan	
1a. Does the project include or is it adjacent to protected riparian buffers identified within one of the NC Riparian Buffer Protection Rules?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
1b. If yes, then is a diffuse flow plan included? If no, explain why. Comments: if yes, see attached permit drawings.	<input type="checkbox"/> Yes <input type="checkbox"/> 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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2c. If this project DOES NOT require a Stormwater Management Plan, explain why:	
2d. If this project DOES require a Stormwater Management Plan, then provide a brief, narrative description of the plan: See attached permit drawings.	
2e. Who will be responsible for the review of the Stormwater Management Plan?	<input type="checkbox"/> Certified Local Government <input type="checkbox"/> DWQ Stormwater Program <input checked="" type="checkbox"/> DWQ 401 Unit
3. Certified Local Government Stormwater Review	
3a. In which local government's jurisdiction is this project?	not applicable
3b. Which of the following locally-implemented stormwater management programs apply (check all that apply):	<input type="checkbox"/> Phase II <input type="checkbox"/> NSW <input type="checkbox"/> USMP <input type="checkbox"/> Water Supply Watershed <input type="checkbox"/> Other:
3c. Has the approved Stormwater Management Plan with proof of approval been attached?	<input type="checkbox"/> Yes <input type="checkbox"/> No
4. DWQ Stormwater Program Review	
4a. Which of the following state-implemented stormwater management programs apply (check all that apply):	<input type="checkbox"/> Coastal counties <input type="checkbox"/> HQW <input type="checkbox"/> ORW <input type="checkbox"/> Session Law 2006-246 <input type="checkbox"/> Other:
4b. Has the approved Stormwater Management Plan with proof of approval been attached?	<input type="checkbox"/> Yes <input type="checkbox"/> No
5. DWQ 401 Unit Stormwater Review	
5a. Does the Stormwater Management Plan meet the appropriate requirements?	<input type="checkbox"/> Yes <input type="checkbox"/> No N/A
5b. Have all of the 401 Unit submittal requirements been met?	<input type="checkbox"/> Yes <input type="checkbox"/> No N/A

F. Supplementary Information	
1. Environmental Documentation (DWQ Requirement)	
1a. Does the project involve an expenditure of public (federal/state/local) funds or the use of public (federal/state) land?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2b. Is this an after-the-fact permit application?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2c. If you answered "yes" to one or both of the above questions, provide an explanation of the violation(s):	
3. Cumulative Impacts (DWQ Requirement)	
3a. Will this project (based on past and reasonably anticipated future impacts) result in additional development, which could impact nearby downstream water quality?	<input type="checkbox"/> Yes <input type="checkbox"/> No
3b. If you answered "yes" to the above, submit a qualitative or quantitative cumulative impact analysis in accordance with the most recent DWQ policy. If you answered "no," provide a short narrative description. Due to the minimal transportation impact resulting from this bridge replacement, this project will neither influence nearby land uses nor stimulate growth. Therefore, a detailed indirect or cumulative effects study will not be necessary.	
4. Sewage Disposal (DWQ Requirement)	
4a. Clearly detail the ultimate treatment methods and disposition (non-discharge or 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 federally protected species or habitat?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
5b. Have you checked with the USFWS concerning Endangered Species Act impacts?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
5c. If yes, indicate the USFWS Field Office you have contacted.	<input type="checkbox"/> Raleigh <input type="checkbox"/> Asheville	
5d. What data sources did you use to determine whether your site would impact Endangered Species or Designated Critical Habitat? EcoScience field surveys Virginia spiraea, Mountain sweet pitcher plant, and Bunched arrowhead June 2010 - No Effect. A December 2011 review of the North Carolina Natural Heritage database determined No specimens within one mile of the project. Appalachian Elktoe, Spotfin chub & Tan riffleshell - No Effect (For the aquatic species, please refer to the attached mussel survey report dated January 5, 2012.		
6. Essential Fish Habitat (Corps Requirement)		
6a. Will this project occur in or near an area designated as essential fish habitat?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
6b. What data sources did you use to determine whether your site would impact Essential Fish Habitat? NMFS County Index		
7. Historic or Prehistoric Cultural Resources (Corps Requirement)		
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)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
7b. What data sources did you use to determine whether your site would impact historic or archeological resources? NEPA Documentation		
8. Flood Zone Designation (Corps Requirement)		
8a. Will this project occur in a FEMA-designated 100-year floodplain?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
8b. If yes, explain how project meets FEMA requirements: NCDOT Hydraulics Unit coordination with FEMA		
8c. What source(s) did you use to make the floodplain 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.)	Jan 19, 2012 Date



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR.
SECRETARY

January 5, 2012

Memorandum to: Jeffrey Hemphill, Environmental Specialist-Western Group
Natural Environment Section, Project Management Group

From: Matt Haney, Environmental Specialist
Natural Environment Section, Biological Surveys Group

Subject: Freshwater mussel survey report for proposed replacement of Bridge
Numbers 235 and 238 over SR 3431 (Pond Road) and Hominy Creek on
I-26, Buncombe County; TIP No. **B-5178**.

The North Carolina Department of Transportation proposes to replace Bridge Numbers 235 and 238 over SR 3431 (Pond Road) and Hominy Creek on I-26 in Buncombe County (TIP B-5178). Hominy Creek is in the French Broad River basin. The federally threatened spotfin chub (*Erimonax monachus*), federally endangered Appalachian elktoe (*Alasmidonta raveneliana*) and federally endangered tan riffleshell (*Epioblasma florentina walkeri*) are listed by the U.S. Fish and Wildlife Service (USFWS) as potentially occurring in Buncombe County. The record status for spotfin chub and Appalachian elktoe is historic. The record status for tan riffleshell is historic and obscure.

From its headwaters, Hominy Creek flows approximately 14.5 miles to the proposed project. The spotfin chub is not known to occur in the French Broad River basin. Spotfin chubs inhabit clear water over gravel, boulders, and bedrock in large creeks and medium-sized rivers having moderate current. This fish is rarely seen over sand, and appears to avoid silty areas.

The Appalachian elktoe is known to occur in the French Broad River basin in the Mills River in Henderson County and in the Little River in Transylvania County. The species has been reported from relatively shallow, medium-sized creeks and rivers with cool, clean, well-oxygenated, moderate- to fast-flowing water. The species is most often found in riffles, runs, and shallow flowing pools with stable, relatively silt-free, coarse sand and gravel substrate associated with cobble, boulders, and/or bedrock. Stability of the substrate appears to be critical to the Appalachian elktoe, and the species is seldom found in stream reaches with accumulations of silt or shifting sand, gravel, or cobble. Individuals that have been encountered in these areas are believed to have been scoured out of upstream areas during periods of heavy rain, and have not been found on subsequent surveys.

Historically, the tan riffleshell inhabited headwaters of the French Broad River. Only a few small populations are known to survive in Big South Fork Cumberland River in Kentucky and Tennessee. This species is found in headwaters, riffles, and shoals in sand and gravel substrates. (Bogan & Parmalee, 1983)

A review of the NC Natural Heritage Program database and the NC Wildlife Resources omissions (NCWRC) database was conducted (January 2012) to determine if there were any records of

MAILING ADDRESS:
NC DEPARTMENT OF TRANSPORTATION
PROJECT DEVELOPMENT AND ENVIRONMENTAL ANALYSIS
NATURAL ENVIRONMENT UNIT
1598 MAIL SERVICE CENTER
RALEIGH NC 27699-1598

TELEPHONE: 919-707-6000

FAX: 919-212-5785

WEBSITE: WWW.NCDOT.ORG

LOCATION:
1020 Birch Ridge Dr.
Raleigh, NC 27610

rare mussels or fish within the proposed project study area or receiving waters. **This review indicated that there are no known occurrences of the spotfin chub, Appalachian elktoe or tan riffleshell in Hominy Creek.** There is an historic occurrence of Appalachian elktoe in the Swannanoa River, approximately 0.7 mile upstream of the confluence of the Swannanoa River and French Broad River. This occurrence was approximately 7.5 river miles from the proposed project. In addition, the French Broad River contains an historic record of Appalachian elktoe approximately 7.8 river miles upstream of the project. Despite numerous surveys on the French Broad and Swannanoa Rivers, no federally listed mussels have been found in recent years.

Several surveys of Hominy Creek, North Hominy Creek and South Hominy Creek have been conducted from 2002 to 2005 (Table 1). No mussels were found during any of these surveys. The R-4406 project was surveyed at 3 sites (SR 3620, SR 3113 and SR 3412). A map is attached showing the location of each project.

Table 1. Hominy Creek Surveys

Date	TIP	Waterbody	Road Crossing
9/02	B-3614	Hominy Creek	SR 1141
10/02	B-3414	South Hominy Creek	NC 151
9/03	B-4037	South Hominy Creek	SR 3452
10/04	B-4033	Hominy Creek	NC 112
5/05	B-4445	North Hominy Creek	SR 1123
5/05	R-4406	Hominy Creek	US 19/23
10/05	I-4401	Hominy Creek	I-40

In 2007 NCDOT conducted a fish survey for B-4034, which is approximately 14 river miles upstream of the proposed project. In addition, DWQ has collected extensive fish data from the South Hominy Creek watershed. No spotfin chubs have been collected from Hominy Creek.

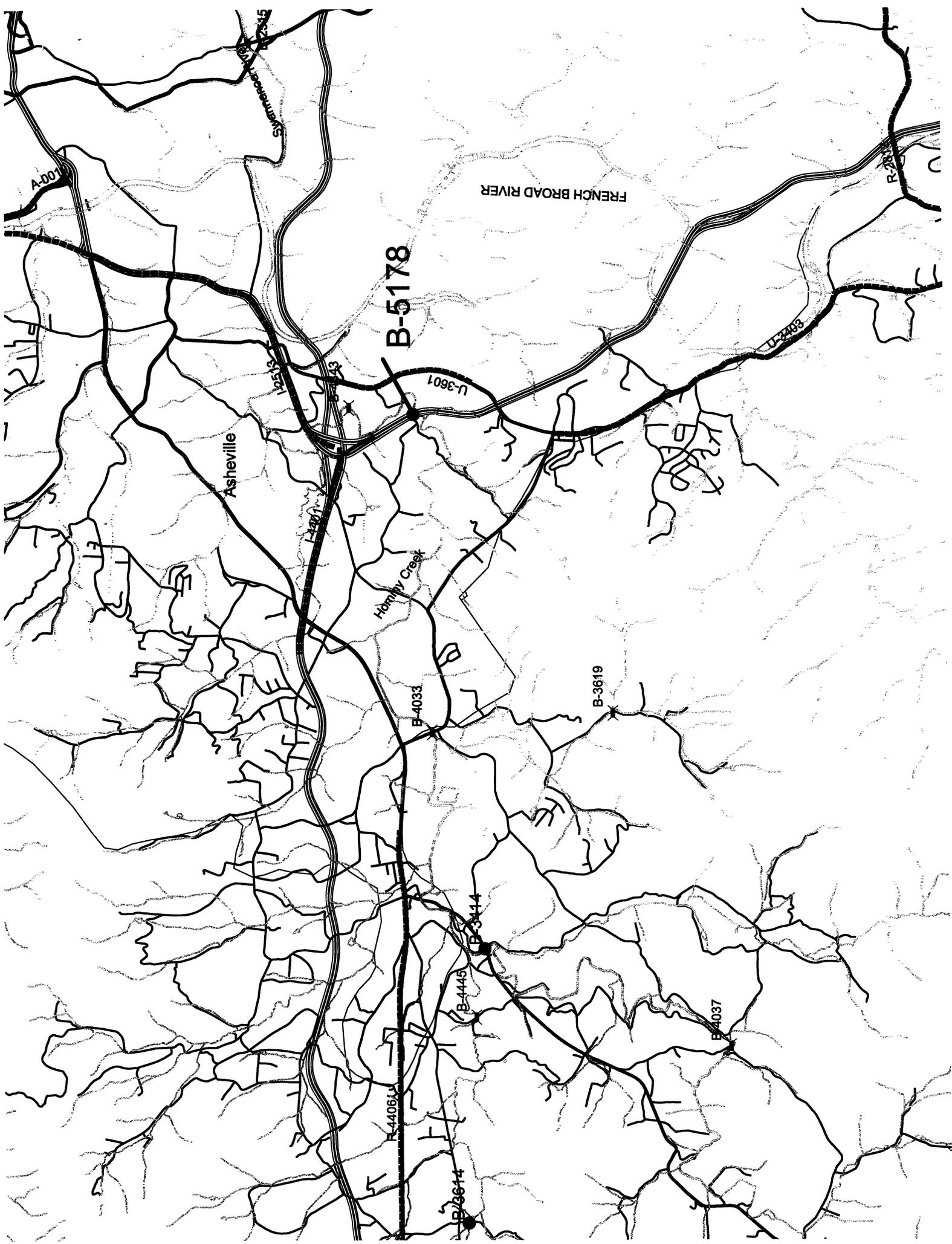
Due to the fact that no mussels have ever been found in Hominy Creek and that no spotfin chubs have ever been found in Hominy Creek, this project will have no effect on the spotfin chub, Appalachian elktoe or tan riffleshell. Furthermore, Steve Fraley with the NCWRC commented that NCWRC's experience and data from the project area indicate that no additional aquatic surveys should be necessary. The most recent surveys in the area were conducted by the Catena Group, Inc., and were consistent with that conclusion. It is many miles to the nearest extant population of any fish or mussel of significant conservation interest and it is highly unlikely that there are any sensitive species in the vicinity of the project that would be significantly impacted by the direct project activities (Steve Fraley, NCWRC, pers. comm. January 4, 2012).

Biological Conclusions: No Effect for spotfin chub (*Erimonax monachus*), Appalachian elktoe (*Alasmidonta raveneliana*) or tan riffleshell (*Epioblasma florentina walker*) for B-5178.

REFERENCES

Bogan, A.E. and P.W. Parmalee. 1983. Tennessee's rare wildlife. Vol. 2: The mollusks. Tennessee Wildlife Resources Agency and the Tennessee Conservation Department: Nashville, Tennessee. 123 pp.

cc: Vincent Rhea, P.E., Project Planning Engineer
PDEA Project Development Unit



B-5178

Asheville

FRENCH BROAD RIVER

Hornly Creek

B-4033

B-3619

B-4445

B-3414

B-4406

B-3614

B-4037

U-3601

U-2408

A-001

R-28

R-28

**U.S. ARMY CORPS OF ENGINEERS
WILMINGTON DISTRICT**

Action Id. 2004-30253

County: Buncombe

NOTIFICATION OF JURISDICTIONAL DETERMINATION

Property Owner: N.C. Department of Transportation
Attn: Mr. Jeff Hemphill
1598 Mail Service Center
Raleigh, North Carolina 27699-1598

Property description:

Size (acres) Study Area shown on Figures 2A-2D (attached)
Nearest Town Asheville
Nearest Waterway French Broad
River Basin French Broad
USGS HUC 06010105

Location description: I-26 Connector (TIP No. I-2513). While a small portion of the study area is located to the east of the French Broad River, in and southwest of Asheville, the majority of the study area is located to the west of the French Broad River, in and southwest of Asheville, Buncombe County, North Carolina.

Indicate Which of the Following Apply:

A. Preliminary Determination

Based on preliminary information, there may be waters of the United States (U.S.) on the above described property. We strongly suggest you have this property inspected to determine the extent of Department of the Army (DA) jurisdiction. To be considered final, a jurisdictional determination must be verified by the Corps. This preliminary determination is not an appealable action under the Regulatory Program Administrative Appeal Process (Reference 33 CFR Part 331).

B. Approved Determination

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

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

We strongly suggest you have the waters of the U.S. on your property delineated. Due to the size of your property and/or our present workload, the Corps may not be able to accomplish this wetland delineation in a timely manner. For a more timely delineation, you may wish to obtain a consultant. To be considered final, any delineation must be verified by the Corps.

The waters of the U.S. on your property have been delineated and the delineation has been verified by the Corps. We strongly suggest you have this delineation surveyed. Upon completion, this survey should be reviewed and verified by the Corps. Once verified, this survey will provide an accurate depiction of all areas subject to CWA jurisdiction on your property which, provided there is no change in the law or our published regulations, may be relied upon for a period not to exceed five years.

The waters of the U.S. have been delineated and surveyed and are accurately depicted on the plat signed by the Corps Regulatory Official identified below on _____. Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.

There are no waters of the U.S., to include wetlands, present on the above described property which are subject to the permit requirements of Section 404 of the Clean Water Act (33 USC 1344). Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.

Placement of dredged or fill material within waters of the U.S. without a Department of the Army permit may constitute a violation of Section 301 of the Clean Water Act (33 USC § 1311). If you have any questions regarding this determination and/or the Corps regulatory program, please contact Lori Beckwith at 828-271-7980, ext. 223.

C. Basis For Determination:

D. Remarks: Approximate boundaries of waters are shown on Figures 1A – 1AB dated December 2009 and on Figures 3I and 3K, dated April 2010.

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

Attached to this verification is an approved jurisdictional determination. If you are not in agreement with that approved jurisdictional determination, you can make an administrative appeal under 33 CFR 331. Enclosed you will find a Notification of Appeal Process (NAP) fact sheet and request for appeal (RFA) form. If you request to appeal this determination you must submit a completed RFA form to the following address:

District Engineer, Wilmington Regulatory Program
Attn: Lori Beckwith, Project Manager
151 Patton Avenue, Room 208
Asheville, North Carolina 28801

In order for an RFA to be accepted by the Corps, the Corps must determine that it is complete, that it meets the criteria for appeal under 33 CFR part 331.5, and that it has been received by the Division Office within 60 days of the date of the NAP.

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

Corps Regulatory Official: **BECKWITH, LORETTA ANN**
A.ANN:1173452264

Digitally signed by
BECKWITH, LORETTA ANN.1173452264
DN: cn=US, o=U.S. Government, ou=DoD,
ou=PW, ou=USA,
cn=BECKWITH, LORETTA ANN.1173452264
Date: 2011.10.11 17:06:11 -0400

Issue Date: **October 11, 2011**

Copy Furnish by e-mail: **PBS&J, Attn: Ms. Elizabeth Scherrer**

Applicant: N.C. Department of Transportation	File Number: 2004-30253	Date: October 11, 2011
Attached is:		See Section below
<input type="checkbox"/>	INITIAL PROFFERED PERMIT (Standard Permit or Letter of permission)	A
<input type="checkbox"/>	PROFFERED PERMIT (Standard Permit or Letter of permission)	B
<input type="checkbox"/>	PERMIT DENIAL	C
<input type="checkbox"/>	APPROVED JURISDICTIONAL DETERMINATION	D
<input checked="" type="checkbox"/>	PRELIMINARY JURISDICTIONAL DETERMINATION	E

A: INITIAL PROFFERED PERMIT: You may accept or object to the permit.

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- **OBJECT:** If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.

B: PROFFERED PERMIT: You may accept or appeal the permit

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- **APPEAL:** If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

C: PERMIT DENIAL: You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

D: APPROVED JURISDICTIONAL DETERMINATION: You may accept or appeal the approved JD or provide new information.

- **ACCEPT:** You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice, means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.
- **APPEAL:** If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

E: PRELIMINARY JURISDICTIONAL DETERMINATION: You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.

REASONS FOR APPEAL OR OBJECTIONS: (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)

ADDITIONAL INFORMATION: The appeal is limited to a review of the administrative record, the Corps memorandum for the record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses to the record. However, you may provide additional information to clarify the location of information that is already in the administrative record.

If you have questions regarding this decision and/or the appeal process you may contact:

Lori Beckwith, Project Manager
USACE, Asheville Regulatory Field Office
151 Patton Ave, Room 208
Asheville, NC 28806
828-271-7980

If you only have questions regarding the appeal process you may also contact:

Administrative Appeal Review Officer
CESAD-ET-CO-R
U.S. Army Corps of Engineers, South Atlantic Division
60 Forsyth Street, Room 9M15
Atlanta, Georgia 30303-8801

RIGHT OF ENTRY: Your signature below grants the right of entry to Corps of Engineers personnel, and any government consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a 15 day notice of any site investigation, and will have the opportunity to participate in all site investigations.

Signature of appellant or agent	Date:	Telephone number:
---------------------------------	-------	-------------------

For appeals on Initial Proffered Permits and approved Jurisdictional Determinations send this form to:

District Engineer, Wilmington Regulatory Division, Attn: Lori Beckwith, Project Manager, Asheville Regulatory Field Office, 151 Patton Avenue, Room 208, Asheville, NC 28801.

For Permit denials and Proffered Permits send this form to:

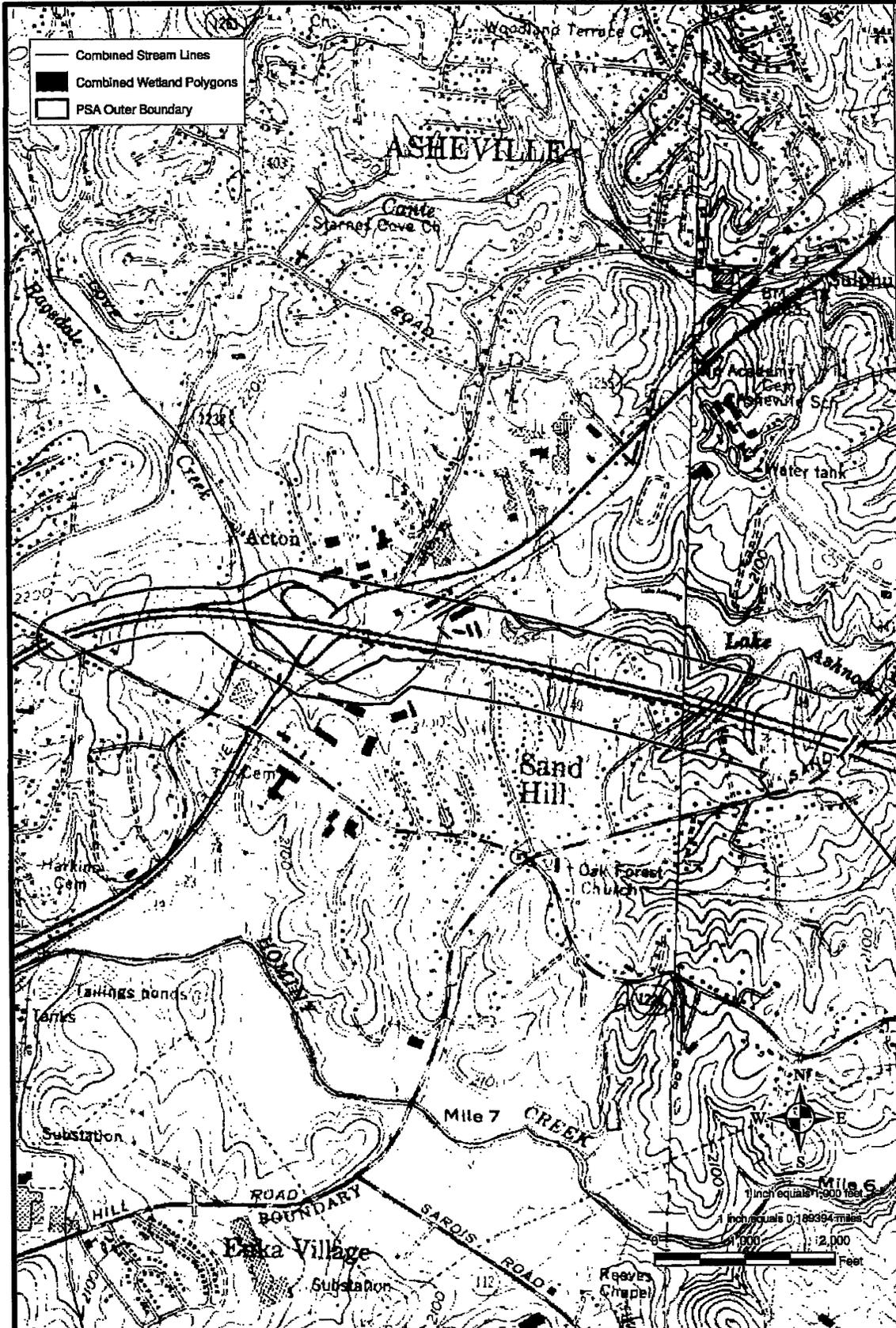
Division Engineer, Commander, U.S. Army Engineer Division, South Atlantic, Attn: Administrative Appeal Officer, CESAD-ET-CO-R, 60 Forsyth Street, Room 9M15, Atlanta, Georgia 30303-8801



		Client: I-26 CONNECTOR BUNCOMBE COUNTY	Title: TOPOGRAPHY	Drawn By: ES	Checked By: MTC	FIGURE 2A
				Date: DEC 2009	Scale: As Shown	
PBS&J Project No.:				p100006387		



		Client:	Project:	Title:	Drawn By:	Checked By:	FIGURE 2B
			I-26 CONNECTOR BUNCOMBE COUNTY	TOPOGRAPHY	ES	MTC	
					Date:	Scale:	
					DEC 2008	As Shown	
					PBS&J Project No.:		
					p100006387		



		Client:	Project:	Title:	Dwn By:	Chk By:	FIGURE
			I-26 CONNECTOR BUNCOMBE COUNTY	TOPOGRAPHY	ES	MTC	2D
		Date:			DEC 2009	As Shown	
PBS&J Project No.:					p100006387		

ATTACHMENT

PRELIMINARY JURISDICTIONAL DETERMINATION FORM

BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR PRELIMINARY JURISDICTIONAL DETERMINATION (JD): *October 11, 2011*

B. NAME AND ADDRESS OF PERSON REQUESTING PRELIMINARY JD:
*JEFFREY HEMPHILL NCDOT 1595 MAIL SERVICE
CENTER RALEIGH NC 27699-1598*

C. DISTRICT OFFICE, FILE NAME, AND NUMBER:
Wilmington, SAW 2004-30253

D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION:
(USE THE ATTACHED TABLE TO DOCUMENT MULTIPLE WATERBODIES AT DIFFERENT SITES)

State: NC County/parish/borough Buncombe City: Asheville

Center coordinates of site (lat/long in degree decimal format): Lat. 35.564706

Pick List, Long. -82.590664 k List.

Universal Transverse Mercator:

Name of nearest waterbody: French Broad River, Hominy Creek, Reed Creek, Moore Branch, Smith Mill Creek, Ragsdale Creek, Trent Branch

Identify (estimate) amount of waters in the review area:

Non-wetland waters: *59,218* linear feet: *59,218* width (ft) and/or 27.2 acres.

Cowardin Class: R4US2/3, R3US1/3, R3RB1/2

Stream Flow: *Perennial + intermittent*

Wetlands: 11.82 acres.

Cowardin Class: PFO1A/B/C/E/G

Name of any water bodies on the site that have been identified as Section 10 waters:

Tidal:

Non-Tidal: French Broad River

E. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

Office (Desk) Determination. Date: *October 11, 2011 (Beekwith)*

Field Determination. Date(s): *April 29, 2010 (Baker)*

1. The Corps of Engineers believes that there may be jurisdictional waters of the United States on the subject site, and the permit applicant or other affected party who requested this preliminary JD is hereby advised of his or her option to request and obtain an approved jurisdictional determination (JD) for that site. Nevertheless, the permit applicant or other person who requested this preliminary JD has declined to exercise the option to obtain an approved JD in this instance and at this time.

2. In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "pre-construction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an approved JD for the activity, the permit applicant is hereby made aware of the following: (1) the permit applicant has elected to seek a permit authorization based on a preliminary JD, which does not make an official determination of jurisdictional waters; (2) that the applicant has the option to request an approved JD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an approved JD could possibly result in less compensatory mitigation being required or different special conditions; (3) that the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) that the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) that undertaking any activity in reliance upon the subject permit authorization without requesting an approved JD constitutes the applicant's acceptance of the use of the preliminary JD, but that either form of JD will be processed as soon as is practicable; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a preliminary JD constitutes agreement that all wetlands and other water bodies on the site affected in any way by that activity are jurisdictional waters of the United States, and precludes any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an approved JD or a preliminary JD, that JD will be processed as soon as is practicable. Further, an approved JD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331, and that in any administrative appeal, jurisdictional issues can be raised (see 33 C.F.R. 331.5(a)(2)). If, during that administrative appeal, it becomes necessary to make an official determination whether CWA jurisdiction exists over a site, or to provide an official delineation of jurisdictional waters on the site, the Corps will provide an approved JD to accomplish that result, as soon as is practicable. This preliminary JD finds that there "may be" waters of the United States on the subject project site, and identifies all aquatic features on the site that could be affected by the proposed activity, based on the following information:

SUPPORTING DATA. Data reviewed for preliminary JD (check all that apply

- checked items should be included in case file and, where checked and requested, appropriately reference sources below):

Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant:

Data sheets prepared/submitted by or on behalf of the applicant/consultant.

Office concurs with data sheets/delineation report.

Office does not concur with data sheets/delineation report.

Data sheets prepared by the Corps:

Corps navigable waters' study:

U.S. Geological Survey Hydrologic Atlas:

USGS NHD data.

USGS 8 and 12 digit HUC maps.

U.S. Geological Survey map(s). Cite scale & quad name: Asheville and Enka, NC 24k quads

USDA Natural Resources Conservation Service Soil Survey. Citation:

SSURGO soils data

National wetlands inventory map(s). Cite name:

State/Local wetland inventory map(s):

FEMA/FIRM maps: 3700 9617J, 3700 9627J, 3700 9637J, 3700 9638J, 3700 9639J

100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929) 1,965-1,998 at French Broad River; 2,042 at Hominy Creek; 2,042-2,098 at Ragsdale Creek

Photographs: Aerial (Name & Date): 1A-1AB Dec 2009, 3I+3K April 2010

or Other (Name & Date): Photo 1-11, undated

Previous determination(s). File no. and date of response letter: December 11, 2003, Action ID 200430253

Other information (please specify): Site visit on 4/29/10 (USACE-Baker).

Waters of the U.S. are shown on Figures 1A-1ABC (Dec 09) + on 3I+3K (April 10).

IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations.

[Signature] 11 Oct 2011

Signature and date of
Regulatory Project Manager
(REQUIRED)

[Signature]

Signature and date of
person requesting preliminary JD
(REQUIRED, unless obtaining
the signature is impracticable)

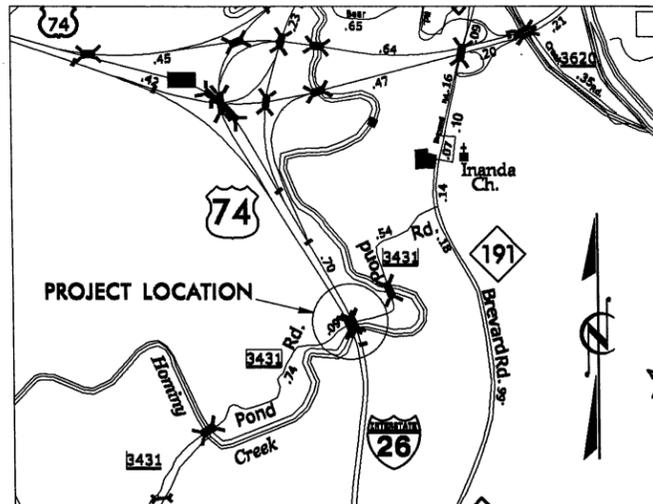
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

BUNCOMBE COUNTY

LOCATION: REPLACEMENT OF BRIDGES NO. 235 AND 238 ON I-26 OVER SR. 3431 (POND RD.) AND HOMINY CREEK

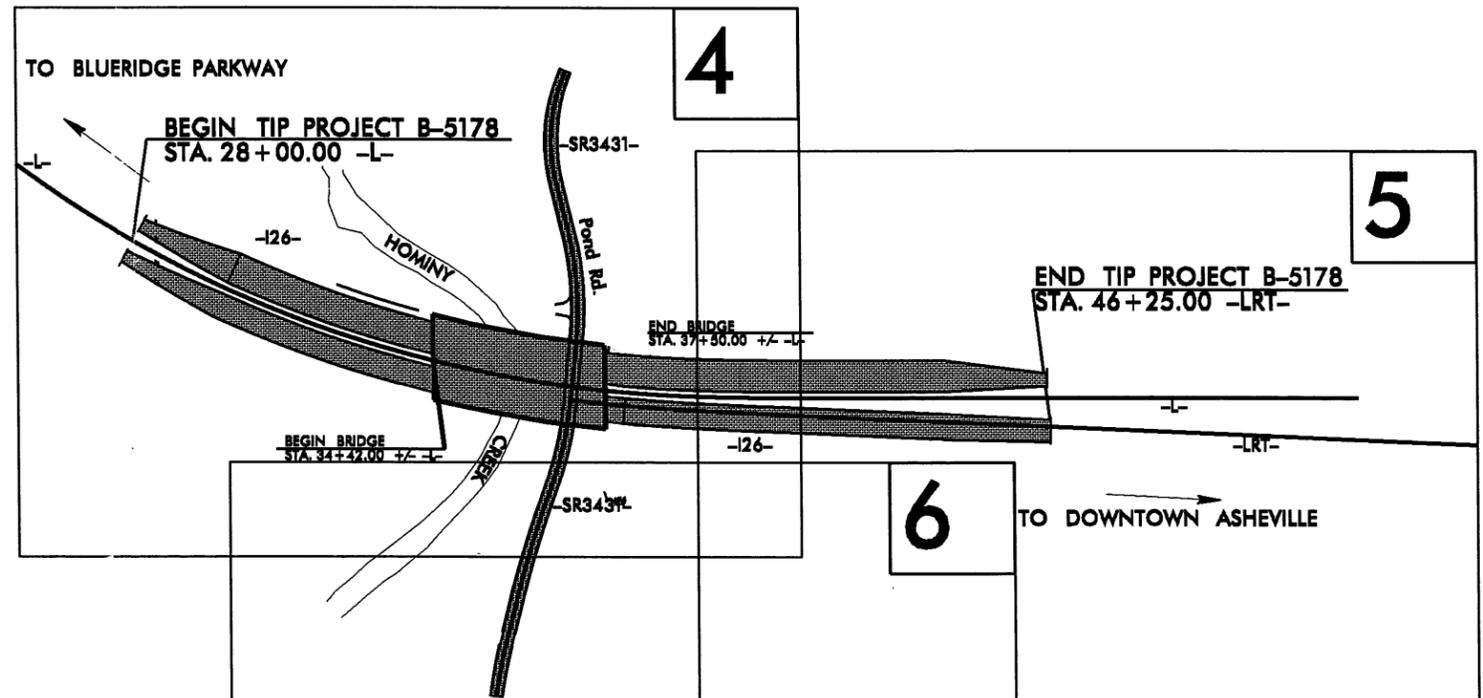
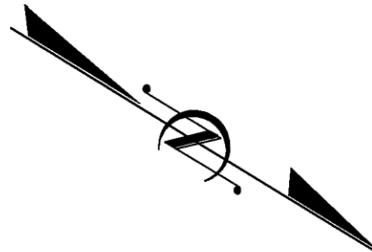
TYPE OF WORK: RESURFACING, PAVING, GRADING, DRAINAGE, STRUCTURE, STRUCTURE REMOVAL, GUARDRAIL, RETAINING WALL AND MEDIAN BARRIER

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5178	1	
STATE PROJ. NO.	P.A. PROJ. NO.	DESCRIPTION	
42549.1.1	BRIMS-026-1(80)1	PE	
42549.2.1	BRIMS-026-1(80)1	RW & UTIL	



VICINITY MAP

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II



WETLAND AND STREAM IMPACTS

THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES
THIS IS A CONTROLLED ACCESS PROJECT

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

CONTRACT:

<p>GRAPHIC SCALES</p> <p>50 25 0 50 100 PLANS</p> <p>50 25 0 50 100 PROFILE (HORIZONTAL)</p> <p>10 5 0 10 20 PROFILE (VERTICAL)</p>	<p>DESIGN DATA</p> <p>ADT 2011 = 81700 ADT 2033 = 103600 DHV = 8 % D = 55 % T = 16 % * V = 70 MPH * TTST = 10 DUAL 6 FUNC CLASS = INTERSTATE STANDARD TIER</p>	<p>PROJECT LENGTH</p> <p>LENGTH ROADWAY TIP PROJECT B-5178 = 0.288 MILE LENGTH STRUCTURE TIP PROJECT B-5178 = 0.058 MILE TOTAL LENGTH TIP PROJECT B-5178 = 0.346 MILE</p>	<p>Prepared in the Office of: DIVISION OF HIGHWAYS 1000 Birch Ridge Dr., Raleigh NC, 27610</p>	<p>HYDRAULICS ENGINEER</p> <p>SIGNATURE: _____ P.E.</p>	<p>DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA</p>  <p>STATE HIGHWAY DESIGN ENGINEER P.E.</p>
			<p>2006 STANDARD SPECIFICATIONS</p> <p>RIGHT OF WAY DATE: <u>JIMMY GOODNIGHT, PE</u> AUGUST 19, 2011 PROJECT ENGINEER</p> <p>LETTING DATE: <u>TIM GOINS, PE</u> AUGUST 21, 2012 PROJECT DESIGN ENGINEER</p>	<p>ROADWAY DESIGN ENGINEER</p> <p>SIGNATURE: _____ P.E.</p>	

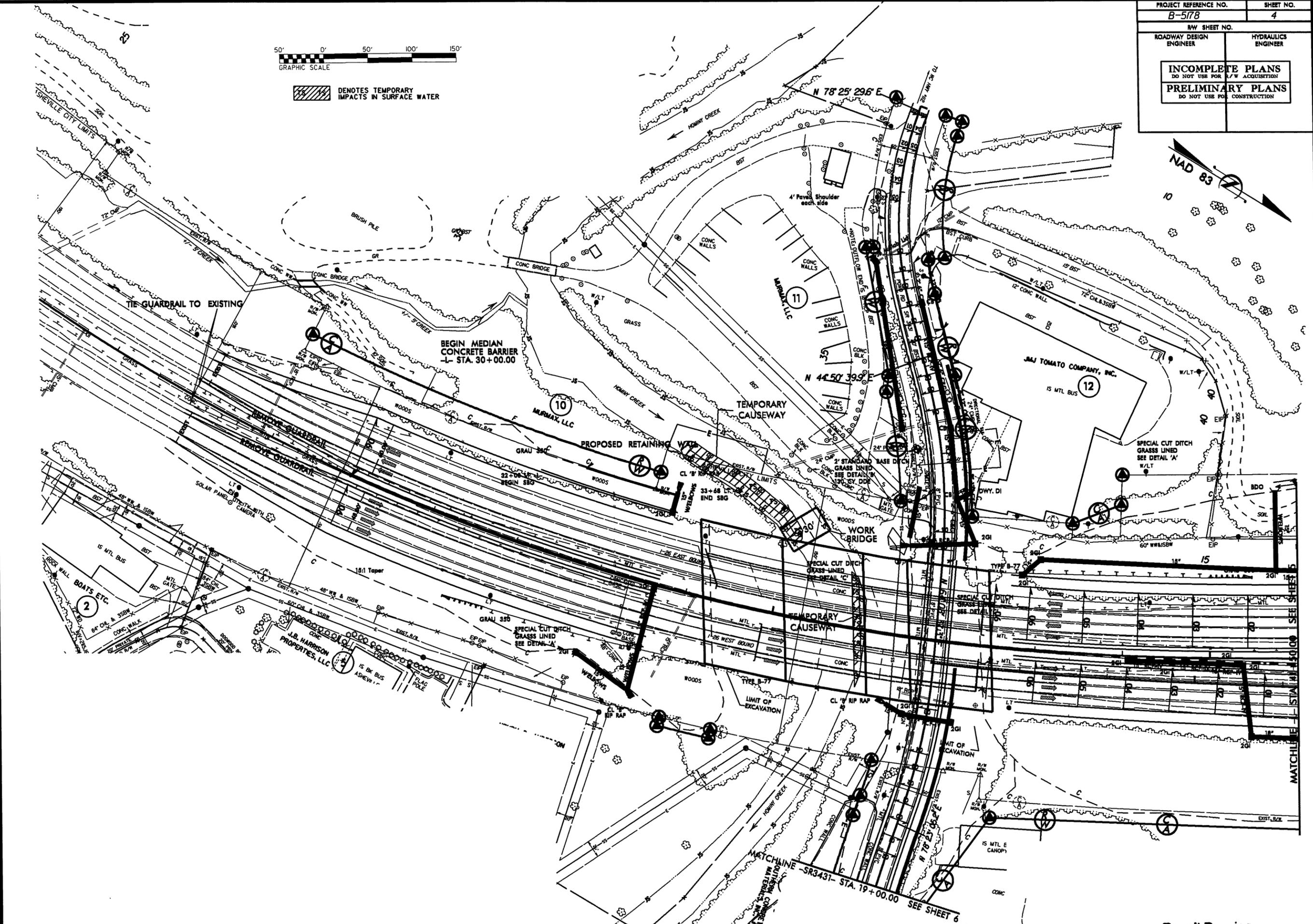
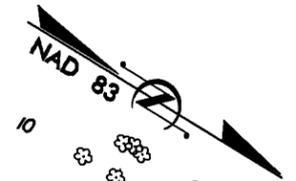
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\$\$\$\$\$DGN\$\$\$\$\$
\$\$\$\$\$USERNAME\$\$\$\$\$

8/17/99

PROJECT REFERENCE NO. B-5178	SHEET NO. 4
RWY SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	



DENOTES TEMPORARY IMPACTS IN SURFACE WATER

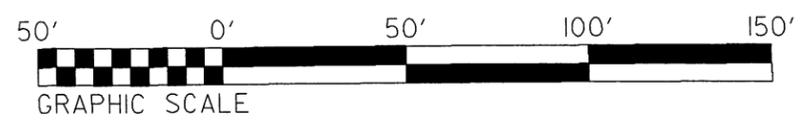


REVISIONS

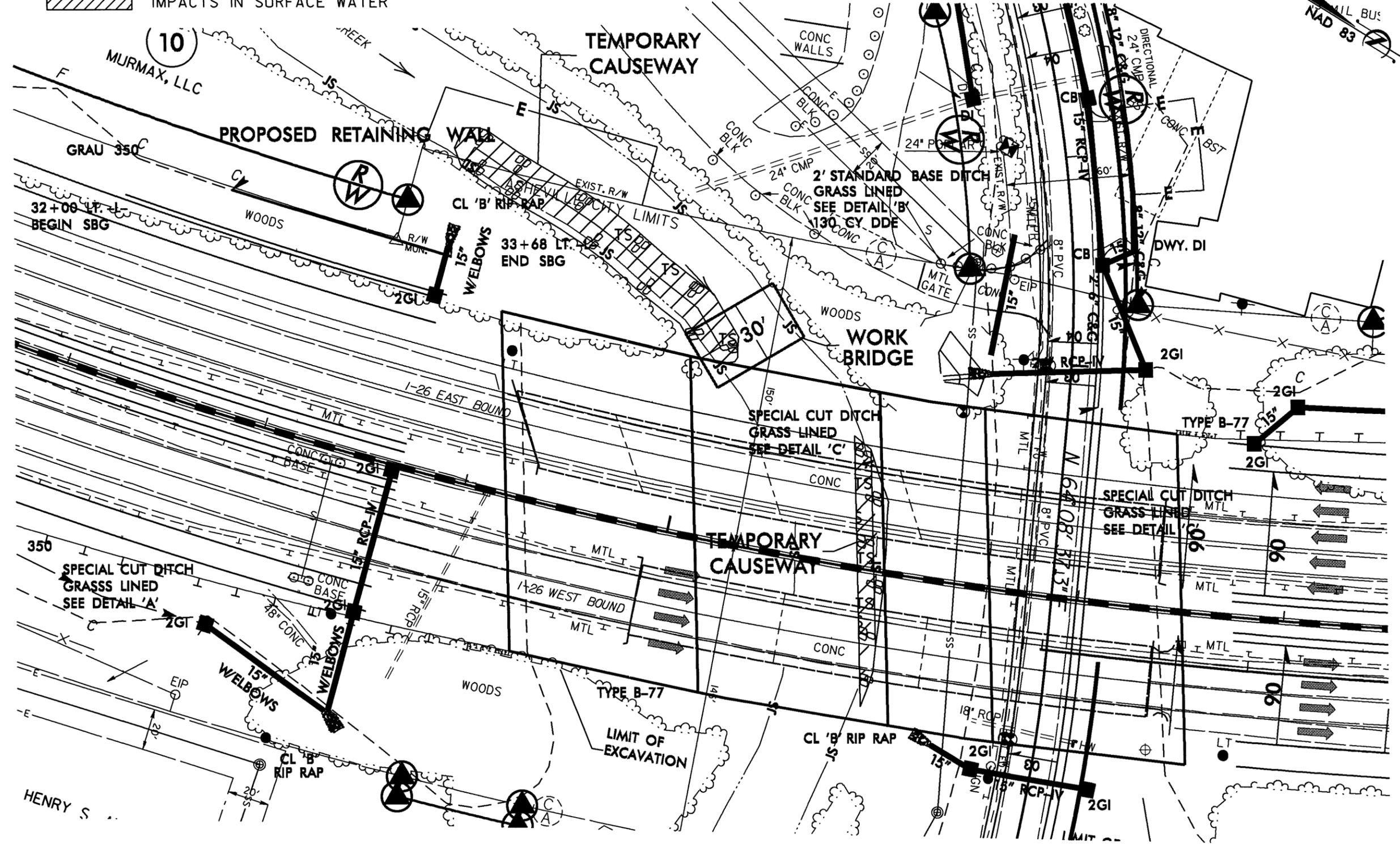
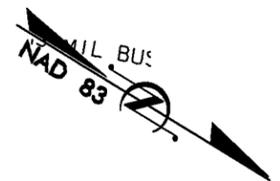
 SYSTEMS

B/17/99

PROJECT REFERENCE NO. B-5178	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	



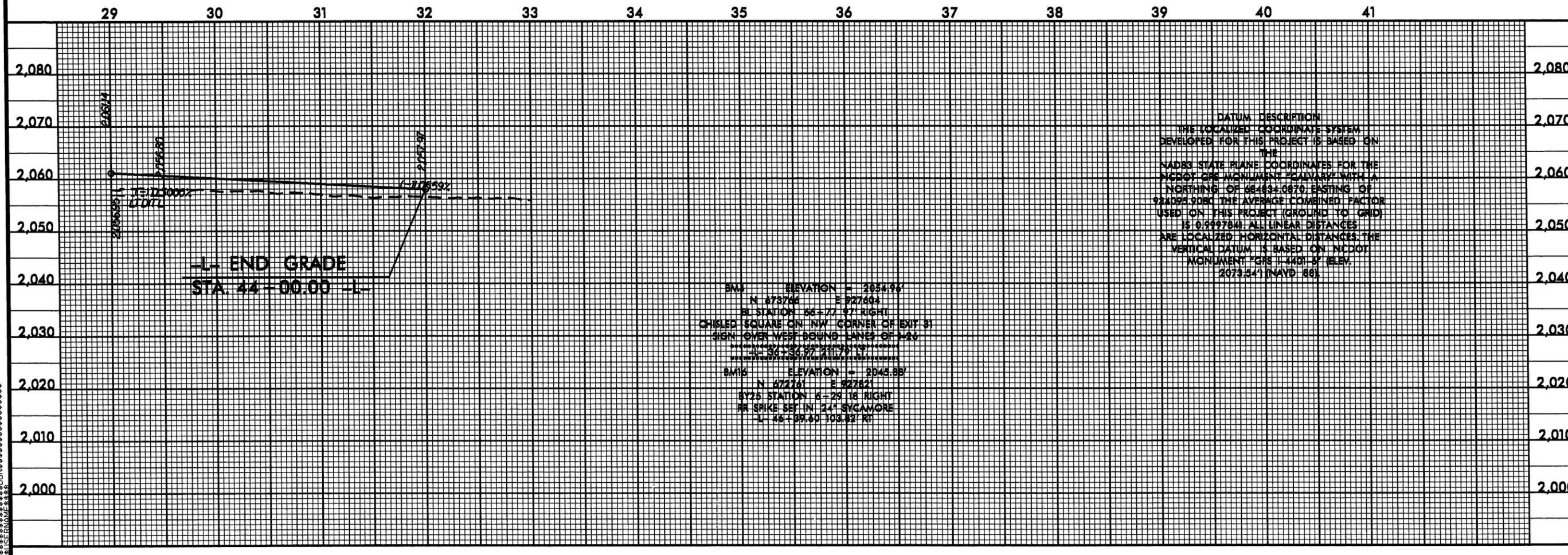
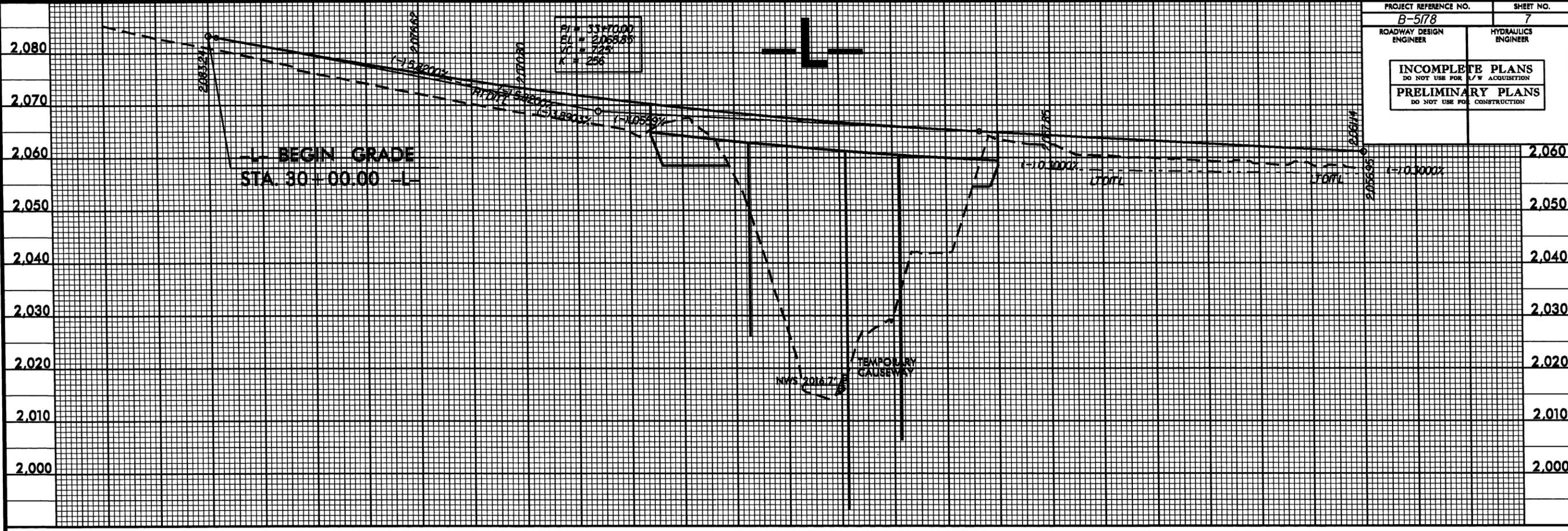
DENOTES TEMPORARY IMPACTS IN SURFACE WATER



REVISIONS

 SYSTEMS TIME: 08/17/99 10:00 AM

5/28/99



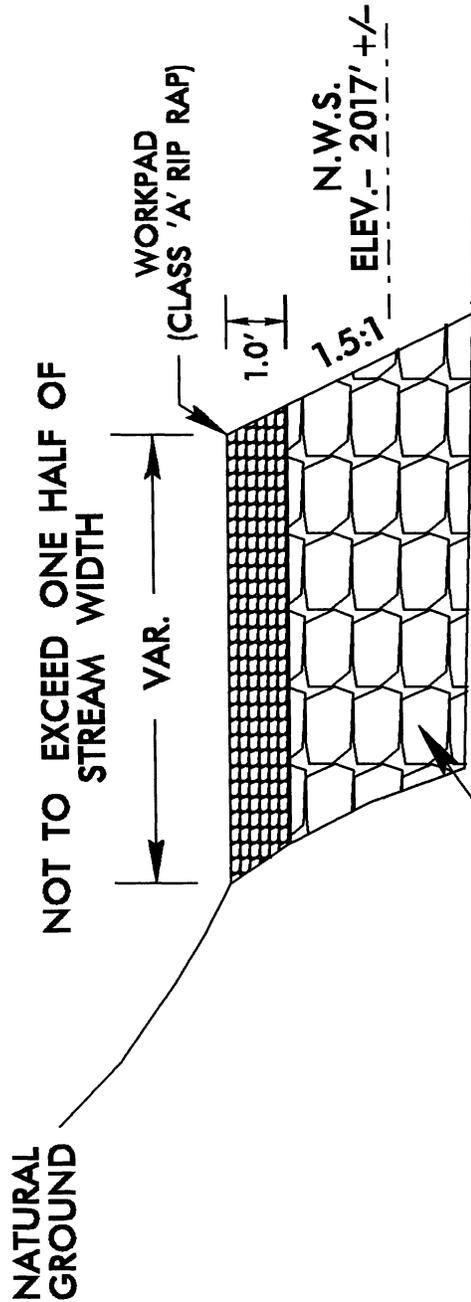
SYSTEMS

PROPERTY OWNERS
NAMES AND ADDRESSES

PARCEL NO.	NAMES	ADDRESSES
10	MURMAX, LLC	P.O. BOX 1276 COLUMBUS, NC 28722

NCDOT
DIVISION OF HIGHWAYS
BUNCOMBE COUNTY
PROJECT: 42549.1.1 (B-5178)
REPLACE BRIDGES #235 AND
#28 OVER HOMINY CREEK
AND SR 3431 ON I-26

SHEET OF 9 / 26 / 11



STREAM BED

ROCK CAUSEWAY
(CLASS II RIP RAP)

NATURAL GROUND

NOT TO EXCEED ONE HALF OF
STREAM WIDTH

VAR.

WORKPAD
(CLASS 'A' RIP RAP)

1.0'

1.5:1

N.W.S.
ELEV. - 2017' +/-

TYPICAL SECTION
(NOT TO SCALE)

QUANTITIES OF ESTIMATES
VOLUME OF TEMPORARY FILL
IN SURFACE WATER
(BELOW NWS): @ 450 CY

NCDOT

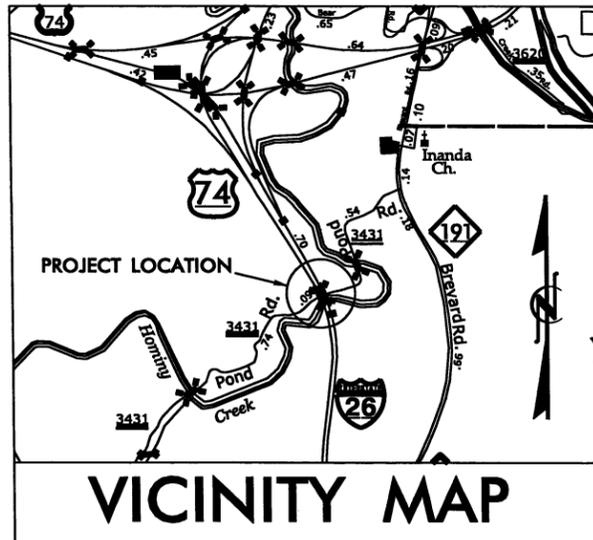
DIVISION OF HIGHWAYS
BUNCOMBE COUNTY
PROJECT: 425-49.1.1 (B-5178)
REPLACE BRIDGES #235 AND
#238 OVER HOMINY CREEK
AND SR 3431 ON I-26

See Sheet 1-A For Index of Sheets

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

BUNCOMBE COUNTY

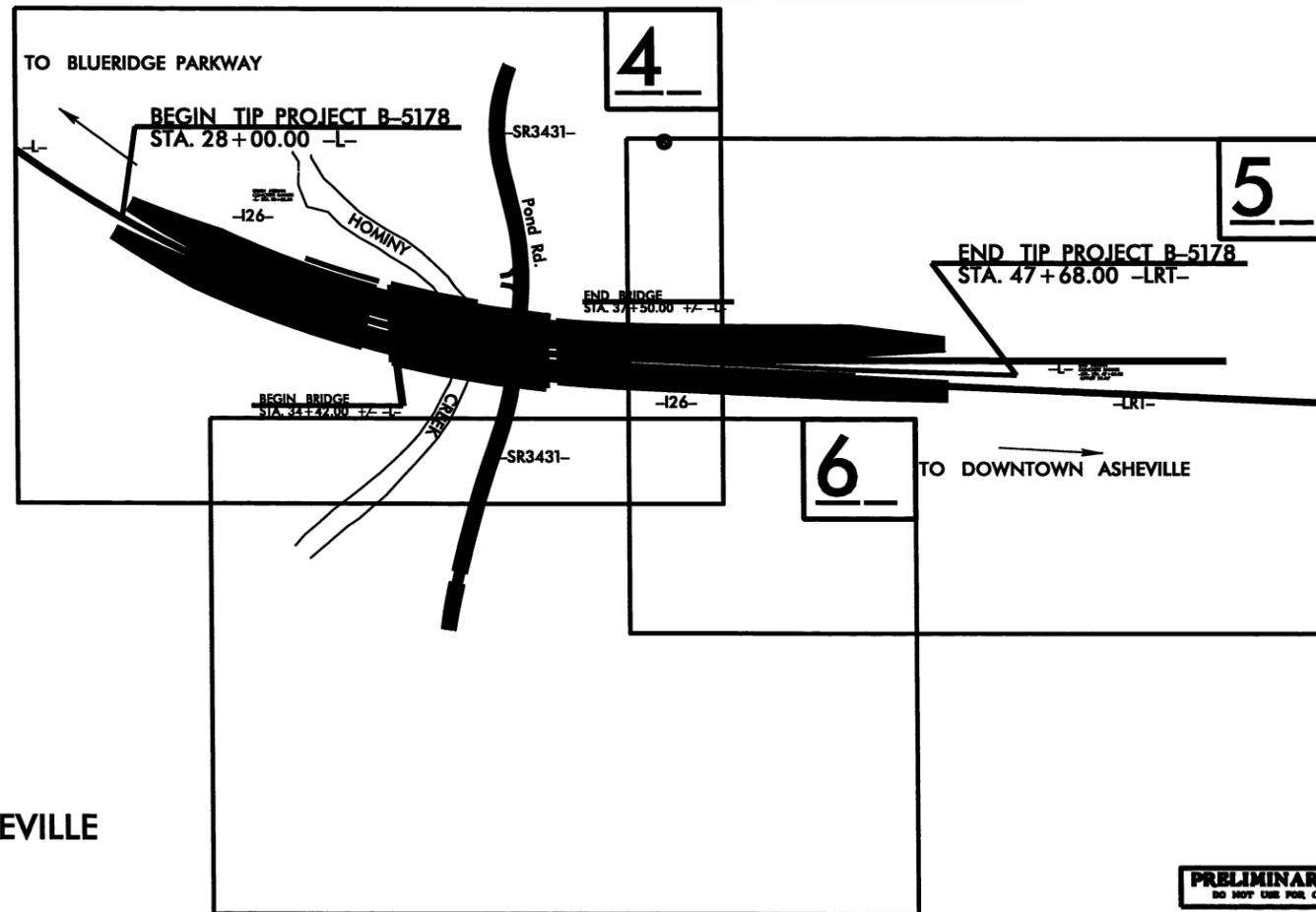
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5178	1	
STATE FEDERAL	STATE FEDERAL	DESCRIPTION	
42549.1.1	BRIMS-026-(180)1	PE	
42549.2.1	BRIMS-026-(180)1	R/W & UTIL	



CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II

LOCATION: REPLACEMENT OF BRIDGES NO. 235 AND 238 ON I-26 OVER SR. 3431 (POND RD.) AND HOMINY CREEK

TYPE OF WORK: RESURFACING, PAVING, GRADING, DRAINAGE, STRUCTURE, STRUCTURE REMOVAL, GUARDRAIL, RETAINING WALL AND MEDIAN BARRIER

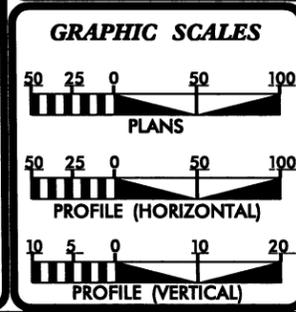


THIS PROJECT IS WITHIN THE CITY LIMITS OF ASHEVILLE
THIS IS A CONTROLLED ACCESS PROJECT

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

TIP PROJECT: B-5178

CONTRACT:



DESIGN DATA

ADT 2011 =	81700
ADT 2033 =	103600
DHV =	8 %
D =	55 %
T =	16 % *
V =	70 MPH
* TTST =	10 DUAL 6
FUNC CLASS =	INTERSTATE
STANDARD	TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-5178 =	0.315 MILE
LENGTH STRUCTURE TIP PROJECT B-5178 =	0.058 MILE
TOTAL LENGTH TIP PROJECT B-5178 =	0.373 MILE

Prepared in the Office of
DIVISION OF HIGHWAYS
1000 Birch Ridge Dr., Raleigh NC, 27610

2006 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:	JIMMY GOODNIGHT, PE PROJECT ENGINEER
AUGUST 31, 2011	
LETTING DATE:	TIM GOINS, PE PROJECT DESIGN ENGINEER
AUGUST 21, 2012	

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

STATE HIGHWAY DESIGN ENGINEER P.E.

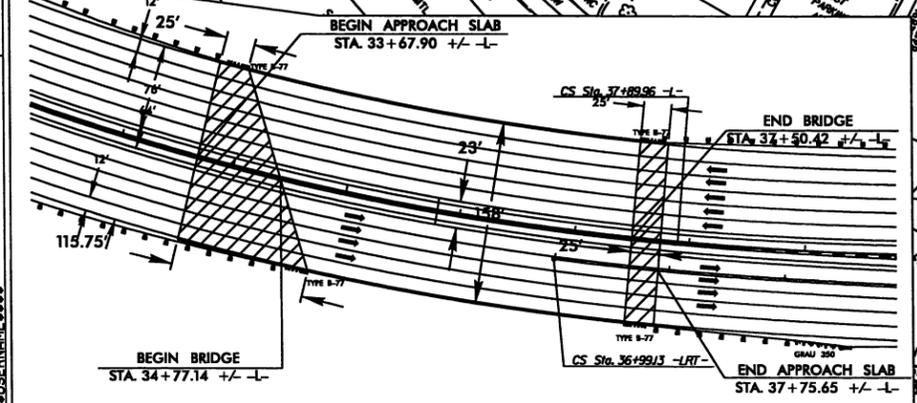
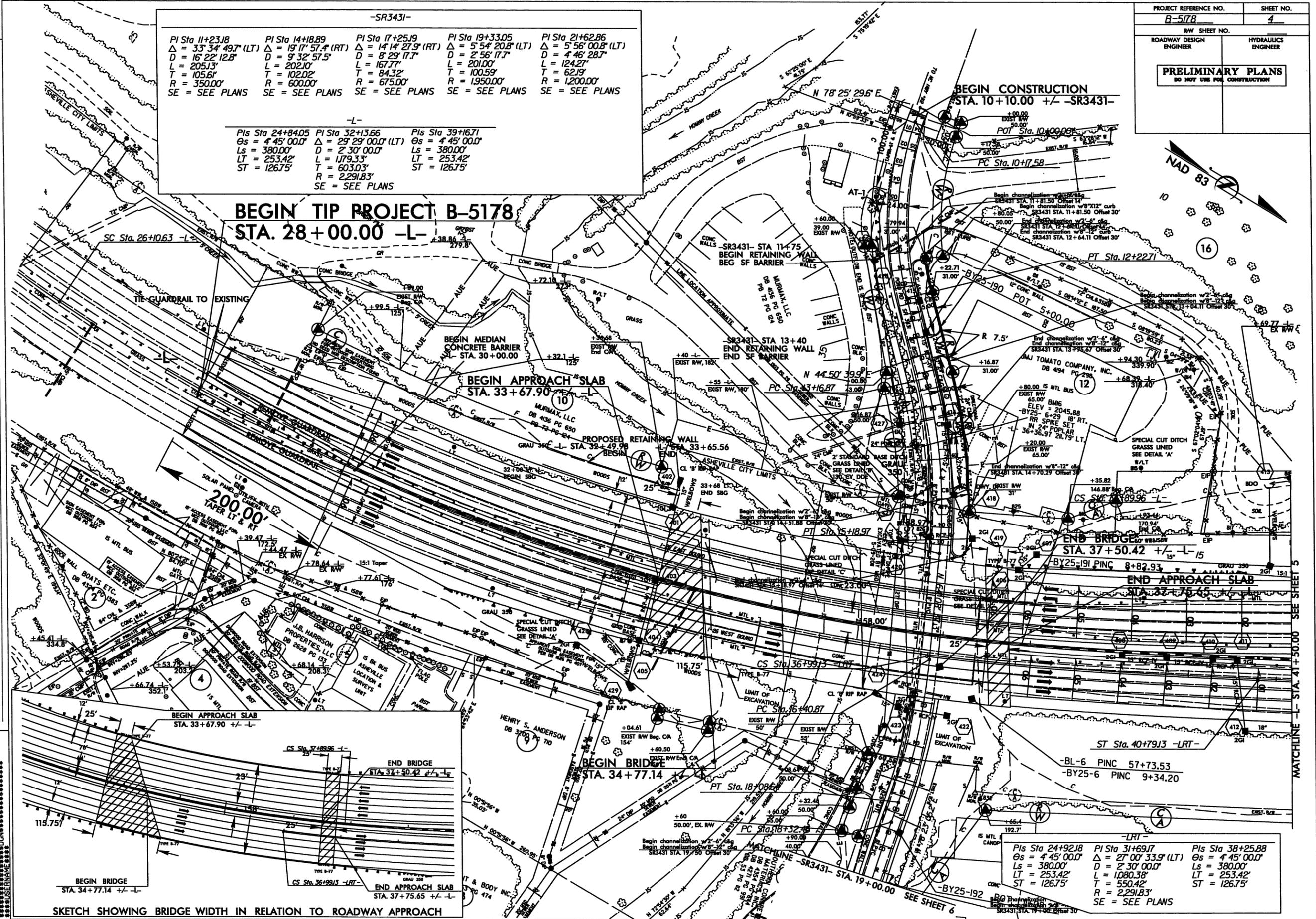
*****SYSTEM*****
*****SDGN*****
*****SERNAME*****

-SR3431-

PI Sta 11+23.18 Δ = 33° 34' 49.7" (LT) D = 16' 22" 12.8" L = 205.13' T = 105.61' R = 350.00' SE = SEE PLANS	PI Sta 14+18.89 Δ = 19° 17' 57.4" (RT) D = 9' 32' 57.5" L = 202.10' T = 102.02' R = 600.00' SE = SEE PLANS	PI Sta 17+25.19 Δ = 14° 14' 27.9" (RT) D = 8' 29' 17.7" L = 167.77' T = 84.32' R = 675.00' SE = SEE PLANS	PI Sta 19+33.05 Δ = 5° 54' 20.8" (LT) D = 2' 56' 17.7" L = 201.00' T = 100.59' R = 1950.00' SE = SEE PLANS	PI Sta 21+62.86 Δ = 5° 56' 00.8" (LT) D = 4' 46' 28.7" L = 124.27' T = 62.19' R = 1200.00' SE = SEE PLANS
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-L-		
PIs Sta 24+84.05 Os = 4' 45" 00.0" Ls = 380.00' LT = 253.42' ST = 126.75'	PI Sta 32+13.66 Δ = 29° 29' 00.0" (LT) D = 2' 30' 00.0" L = 179.33' T = 603.03' R = 2,291.83' SE = SEE PLANS	PIs Sta 39+16.71 Os = 4' 45" 00.0" Ls = 380.00' LT = 253.42' ST = 126.75'

BEGIN TIP PROJECT B-5178
STA. 28+00.00 -L-



SKETCH SHOWING BRIDGE WIDTH IN RELATION TO ROADWAY APPROACH

REVISIONS
 Channelization was added along -SR3431- which reduced RW on parcels 13 & 19. TCE was also added on these parcels. A retaining wall is proposed along -SR3431- adjacent to parcel 10 but no additional RW is required. TCE was added at -L- STA. 33+50.00 LT for the construction of a temporary causeway. These revisions are a result of a conversation with Bob Hester on 12-12-11. The TCE on parcel 10 was requested by the Hydraulics Unit. TDG 1-12-12

8/17/99

MATCHLINE -L- STA. 41+50.00 SEE SHEET 5

-LRT-

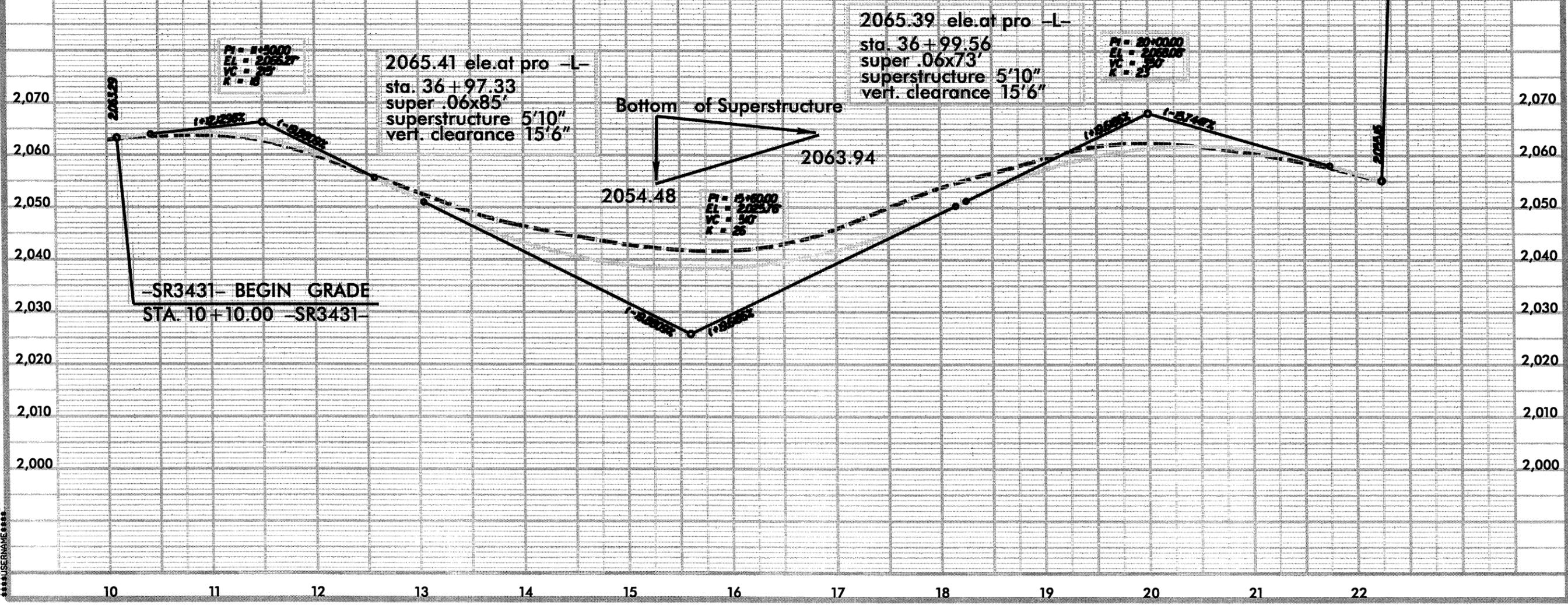
PIs Sta 24+92.18 Os = 4' 45" 00.0" Ls = 380.00' LT = 253.42' ST = 126.75'	PI Sta 31+69.17 Δ = 27° 00' 33.9" (LT) D = 2' 30' 00.0" L = 1080.38' T = 550.42' R = 2,291.83' SE = SEE PLANS	PIs Sta 38+25.88 Os = 4' 45" 00.0" Ls = 380.00' LT = 253.42' ST = 126.75'
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5/14/99

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

-SR3431-

-SR3431- END GRADE
STA. 22+24.94 -SR3431-

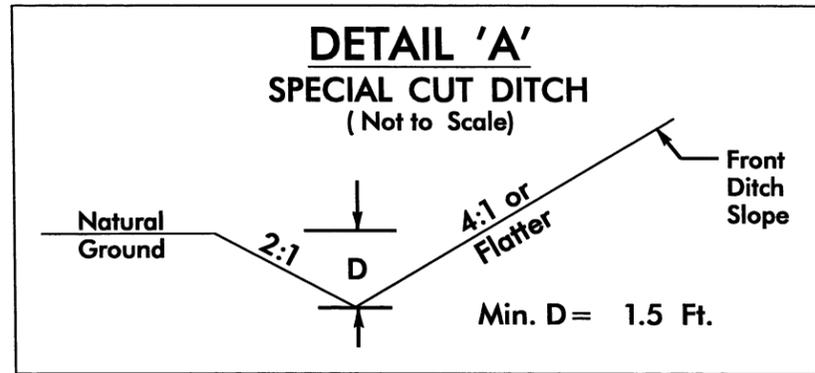


SYSTEMS

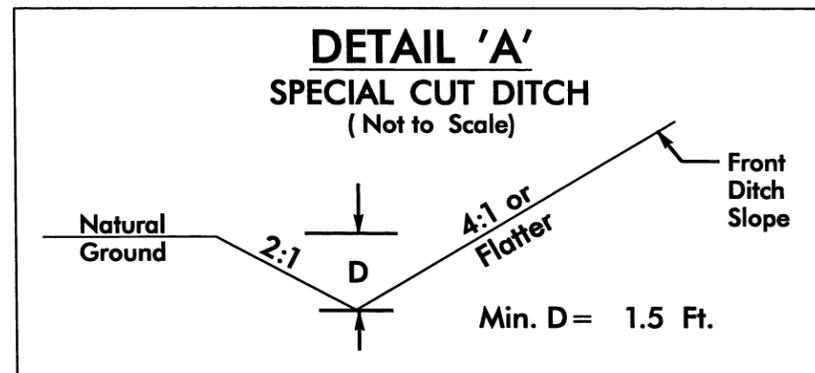
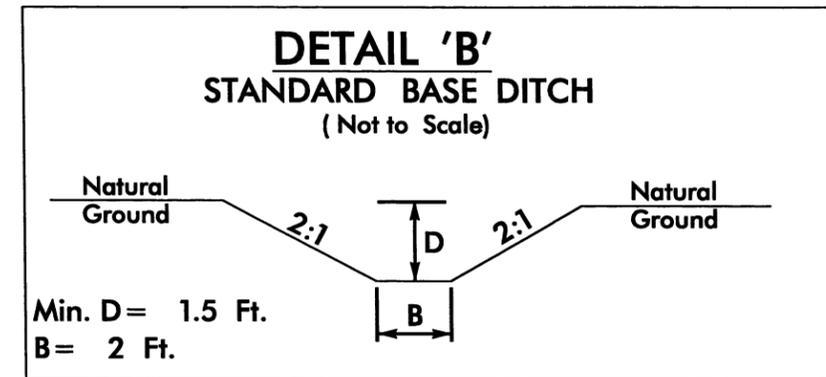
6/2/99

B-578	2A
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

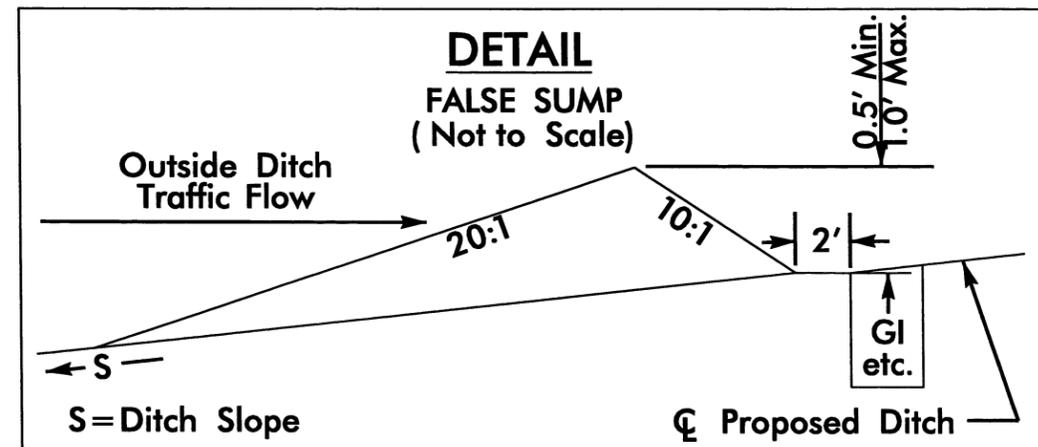
SPECIAL DITCH AND HYDRO DETAILS



FROM STA. 38+00 LT. TO STA. 41+00 LT. -L-
FROM STA. 32+00 RT. TO STA. 33+00 RT. -L-



FROM STA. 41+00 LT. TO STA. 41+50 LT. -L-



*****SYTIME*****
*****DESIGN*****
*****USER/DATE*****