



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

ROY COOPER  
GOVERNOR

J.R. "JOEY" HOPKINS  
SECRETARY

November 14, 2023

U. S. Army Corps of Engineers  
Raleigh Regulatory Field Office  
3331 Heritage Trade Drive, Suite 105  
Wake Forest, North Carolina 27587

NC Division of Water Resources  
Transportation Permitting Branch  
1617 Mail Service Center  
Raleigh NC 27699-1617

ATTN: Mr. Eric Alsmeyer  
NCDOT Coordinator

Mr. Ryan Conchilla  
NCDOT Coordinator

Subject: **Application for Section 404 Regional General Permit 50 and Section 401 Water Quality Certification** for the Proposed Replacement of Bridge No. 160001 on US 158 / NC 86 over Country Line Creek in Caswell County, Division 7, TIP BR-0069, Debit \$323 from WBS No. 67069.1.1

Dear Madam or Sir:

The North Carolina Department of Transportation (NCDOT) proposes to replace Bridge No. 160001 on US 158 / NC 86 over Country Line Creek with a new structure in the same location. Traffic will be detoured on-site during construction via a separate detour bridge.

As a result of replacing the bridge, including associated roadway slopes and a detour bridge, there will be 69 linear feet of stream bank stabilization and 78 linear feet (0.13 acre) of temporary stream impacts. There will also be 0.02 acre of temporary (hand clearing) impacts to wetlands from these activities.

Please see enclosed copies of the Pre-Construction Notification (PCN), Stormwater Management Plan, Permit Drawings, Protected Species Info, Cultural Resource Documents, and NEPA/SEPA Document.

A copy of this permit application has been posted on the NCDOT Website at: <http://connect.ncdot.gov/resources/Environmental>. If you have any questions or need additional information, please contact Erin Cheely at [ekcheely@ncdot.gov](mailto:ekcheely@ncdot.gov) or (919) 707-6108.

Sincerely,

  
for Michael A. Turchy  
Environmental Coordination and Permitting Group Leader

cc: NCDOT Permit Application Standard Distribution List

*Mailing Address:*  
NC DEPARTMENT OF TRANSPORTATION  
ENVIRONMENTAL ANALYSIS UNIT  
1598 MAIL SERVICE CENTER  
RALEIGH, NC 27699-1598

*Telephone:* (919) 707-6000  
*Fax:* (919) 212-5785  
*Customer Service:* 1-877-368-4968

*Location:*  
1000 BIRCH RIDGE DRIVE  
RALEIGH, NC 27610

*Website:* [www.ncdot.gov](http://www.ncdot.gov)

# Pre-Construction Notification



## Pre-Construction Notification (PCN) Form

For Nationwide Permits and Regional General Permits  
(along with corresponding Water Quality Certifications)

October 2, 2023 Ver 4.3

Please note: fields marked with a red asterisk \* below are required. You will not be able to submit the form until all mandatory questions are answered.

Also, if at any point you wish to print a copy of the E-PCN, all you need to do is right-click on the document and you can print a copy of the form.

Below is a link to the online help file.

<https://edocs.deq.nc.gov/WaterResources/DocView.aspx?dbid=0&id=2196924>

### A. Processing Information



#### Pre-Filing Meeting Date Request was submitted on: \*

6/30/2023

If this is a courtesy copy, please fill in this with the submission date.

Does this project involve maintenance dredging funded by the Shallow Draft Navigation Channel Dredging and Aquatic Weed Fund or involve the distribution or transmission of energy or fuel, including natural gas, diesel, petroleum, or electricity? \*

Yes  No

Is this project connected with ARPA funding? \*

Yes  No

County (or Counties) where the project is located: \*

Caswell

Is this a NCDMS Project? \*

Yes  No

Click Yes, only if NCDMS is the applicant or co-applicant.

**DON'T CHECK YES, UNLESS YOU ARE DMS OR CO-APPLICANT.**

Is this project a public transportation project? \*

Yes  No

This is any publicly funded by municipal, state or federal funds road, rail, airport transportation project.

Is this a NCDOT Project? \*

Yes  No

(NCDOT only) T.I.P. or state project number:

TIP BR-0069

WBS # \*

67069.1.1

(for NCDOT use only)

1a. Type(s) of approval sought from the Corps: \*

- Section 404 Permit (wetlands, streams and waters, Clean Water Act)  
 Section 10 Permit (navigable waters, tidal waters, Rivers and Harbors Act)

Has this PCN previously been submitted? \*

Yes  
 No

1b. What type(s) of permit(s) do you wish to seek authorization? \*

- Nationwide Permit (NWP)  
 Regional General Permit (RGP)  
 Standard (IP)

1c. Has the NWP or GP number been verified by the Corps? \*

Yes  No

Regional General Permit (RGP) Number:

201902350 - Work associated with bridge construction, widening, replacement, and interchanges

**RGP Numbers (for multiple RGPS):**

List all RGP numbers you are applying for not on the drop down list.

**1d. Type(s) of approval sought from the DWR: \***

check all that apply

- 401 Water Quality Certification - Regular
- Non-404 Jurisdictional General Permit
- Individual 401 Water Quality Certification
- 401 Water Quality Certification - Express
- Riparian Buffer Authorization

**1e. Is this notification solely for the record because written approval is not required?**

\*

For the record only for DWR 401 Certification:  Yes  No

For the record only for Corps Permit:  Yes  No

**1f. Is this an after-the-fact permit application? \***

Yes  No

**1g. Is payment into a mitigation bank or in-lieu fee program proposed for mitigation of impacts?**

If so, attach the acceptance letter from mitigation bank or in-lieu fee program.

Yes  No

**Acceptance Letter Attachment**

Click the upload button or drag and drop files here to attach document

FILE TYPE MUST BE PDF

**1h. Is the project located in any of NC's twenty coastal counties? \***

Yes  No

**1j. Is the project located in a designated trout watershed? \***

Yes  No

Link to trout information: <http://www.saw.usace.army.mil/Missions/Regulatory-Permit-Program/Agency-Coordination/Trout.aspx>

## B. Applicant Information



**1a. Who is the Primary Contact? \***

Erin Cheely

**1c. Primary Contact Phone: \***

(xxx)xxx-xxxx  
(919)707-6108

**1b. Primary Contact Email: \***

ekcheely@ncdot.gov

**1d. Who is applying for the permit? \***

- Owner  
(Check all that apply)
- Applicant (other than owner)

**1e. Is there an Agent/Consultant for this project? \***

Yes  No

### 2. Owner Information

**2a. Name(s) on recorded deed: \***

NCDOT

**2b. Deed book and page no.:**

**2c. Contact Person:**

(for Corporations)

**2d. Address \***

Street Address

1598 Mail Service Center

Address Line 2

City

Raleigh

Postal / Zip Code

27699-1598

State / Province / Region

NC

Country

US

**2e. Telephone Number: \***

(xxx)xxx-xxxx

(919)707-6108

**2f. Fax Number:**

(xxx)xxx-xxxx

**2g. Email Address: \***

ekcheely@ncdot.gov

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**3. Applicant Information (if different from owner)**

**3a. Name: \***

Erin Cheely

**3b. Business Name:**

(if applicable)

**3c. Address \***

Street Address

1598 Mail Service Center

Address Line 2

City

Raleigh

Postal / Zip Code

27699-1598

State / Province / Region

NC

Country

US

**3d. Telephone Number: \***

(919)707-6108

(xxx)xxx-xxxx

**3e. Fax Number:**

(xxx)xxx-xxxx

**3f. Email Address: \***

ekcheely@ncdot.gov

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**C. Project Information and Prior Project History**



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**1. Project Information**



**1a. Name of project: \***

TIP BR-0069

**1b. Subdivision name:**

(if appropriate)

**1c. Nearest municipality / town: \***

Yanceyville

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**2. Project Identification**



**2a. Property Identification Number:**

(tax PIN or parcel ID)

**2b. Property size:**

(in acres)

**2c. Project Address**

Street Address

Address Line 2

City

Postal / Zip Code

State / Province / Region

Country

**2d. Site coordinates in decimal degrees**

Please collect site coordinates in decimal degrees. Use between 4-6 digits (unless you are using a survey-grade GPS device) after the decimal place as appropriate, based on how the location was determined. (For example, most mobile phones with GPS provide locational precision in decimal degrees to map coordinates to 5 or 6 digits after the decimal place.)

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**Latitude: \***

36.404300

ex: 34.208504

**Longitude: \***

-79.297789

-77.796371

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**3. Surface Waters**

**3a. Name of the nearest body of water to proposed project: \***

Country Line Creek

**3b. Water Resources Classification of nearest receiving water: \***

C

[Surface Water Lookup](#)

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**3c. What river basin(s) is your project located in? \***

Roanoke

3d. Please provide the 12-digit HUC in which the project is located. \*

030101040203

[River Basin Lookup](#)

## 4. Project Description and History

4a. Describe the existing conditions on the site and the general land use in the vicinity of the project at the time of this application: \*

The project site includes an existing two-lane bridge with 12' travel lanes, 3.5' paved shoulders, and 4:1 side slopes on the approaches that crosses Country Line Creek. Vegetated areas within the project vicinity are primarily maintained roadside grasses and herbs, as well as mixed mesic hardwood forest. Adjacent land uses include rural residential, agriculture, and forested areas.

4b. Have Corps permits or DWR certifications been obtained for this project (including all prior phases) in the past? \*

Yes  No  Unknown

4f. List the total estimated acreage of all existing wetlands on the property:

0.28

4g. List the total estimated linear feet of all existing streams on the property:

(intermittent and perennial)

1,408

4h. Explain the purpose of the proposed project: \*

As identified in the March 2023 Categorical Exclusion (CE), the need for the proposed action is to replace a structurally deficient bridge. NCDOT Bridge Management Unit records indicate Bridge No. 160001 was built in 1970 and is considered structurally deficient due to a 2022 superstructure condition appraisal of 4 out of 9 according to Federal Highway Administration standards. This bridge has priority maintenance for slope protection on both ends, and structural issues at bent No. 3.

4i. Describe the overall project in detail, including indirect impacts and the type of equipment to be used: \*

The proposed project involves replacing Bridge No. 160001 on U.S. 158/N.C. 86 over Country Line Creek in Caswell County in the Town of Yanceyville. Bartlett Yancey High School is located west of the bridge along with various commercial developments. The North Carolina Wildlife Resources Commission owns large tracts of land to the south and east of the bridge. The Caswell Shooting Range is located within that property. The proposed project length is 0.220 miles, and the proposed Bridge Length is 0.047 miles. The roadway width is 24', with two 12' lanes. Total shoulder width is 8', with 4' paved and 4' turfed. The proposed bridge clear roadway is 44', with two 12' lanes and 10' shoulders. Side slopes are NCDOT Arterial Design Side Slopes (ADSS) due to an Average Daily Traffic (ADT) greater than 2000. Current 2023 ADT is 8,525, and projected future ADT in 2043 is 10,025. There are 10% trucks, with Tractor Trailer Semi Trucks (TTST) at 6%, and Dual Axle Trucks at 4%. Design Speed V is 60 mph. Standard road and bridge building equipment such as trucks, dozers, and cranes will be used.

## 5. Jurisdictional Determinations

5a. Have the wetlands or streams been delineated on the property or proposed impact areas? \*

Yes  No  Unknown

Comments:

5b. If the Corps made a jurisdictional determination, what type of determination was made? \*

Preliminary  Approved  Not Verified  Unknown  N/A

Corps AID Number:

Example: SAW-2017-99999

5c. If 5a is yes, who delineated the jurisdictional areas?

Name (if known): Adam Efird, Annie Welch, and Rebeckah Sims

Agency/Consultant Company: Moffatt & Nichol

Other:

## 6. Future Project Plans

6a. Is this a phased project? \*

Yes  No

Are any other NWP(s), regional general permit(s), or individual permits(s) used, or intended to be used, to authorize any part of the proposed project or related activity? This includes other separate and distant crossing for linear projects that require Department of the Army authorization but don't require pre-construction notification.

## D. Proposed Impacts Inventory



### 1. Impacts Summary

1a. Where are the impacts associated with your project? (check all that apply):

Wetlands  Streams-tributaries  Buffers  
 Open Waters  Pond Construction

### 2. Wetland Impacts

If there are wetland impacts proposed on the site, then complete this question for each wetland area impacted.

"W." will be used in the table below to represent the word "wetland".

2a. Site # <sup>*(?)</sup>	2a1 Reason <sup>*(?)</sup>	2b. Impact type <sup>*(?)</sup>	2c. Type of W. <sup>*</sup>	2d. W. name <sup>*</sup>	2e. Forested <sup>*</sup>	2f. Type of Jurisdiction <sup>*(?)</sup>	2g. Impact area <sup>*</sup>
2	Construction Access	T	Floodplain Pool	WA/WB	Yes	Both	0.020 (acres)

**2g. Total Temporary Wetland Impact**

0.020

**2g. Total Permanent Wetland Impact**

0.000

**2g. Total Wetland Impact**

0.020

**2i. Comments:**

Wetland impacts are due to hand clearing of vegetation needed within wetland WA/WB for construction access to the proposed bridge.

### 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.

"S." will be used in the table below to represent the word "stream".

	3a. Reason for impact <sup>*(?)</sup>	3b. Impact type <sup>*</sup>	3c. Type of impact <sup>*</sup>	3d. S. name <sup>*</sup>	3e. Stream Type <sup>*(?)</sup>	3f. Type of Jurisdiction <sup>*</sup>	3g. S. width <sup>*</sup>	3h. Impact length <sup>*</sup>
S1	Bridge Construction	Permanent	Bank Stabilization	Country Line Creek	Perennial	Both	25 Average (feet)	63 (linear feet)
S2	Construction Access	Temporary	Bank Stabilization	Country Line Creek	Perennial	Both	25 Average (feet)	10 (linear feet)
S3	Bridge Construction	Temporary	Workpad/Causeway	Country Line Creek	Perennial	Both	25 Average (feet)	21 (linear feet)
S4	Outfall Construction	Permanent	Bank Stabilization	Country Line Creek	Perennial	Both	25 Average (feet)	6 (linear feet)
S5	Construction Access	Temporary	Bank Stabilization	Country Line Creek	Perennial	Both	25 Average (feet)	10 (linear feet)
S6	Detour Bridge	Temporary	Other	Country Line Creek	Perennial	Both	25 Average (feet)	37 (linear feet)

\*\* All Perennial or Intermittent streams must be verified by DWR or delegated local government.

**3i. Total jurisdictional ditch impact in square feet:**

0

**3i. Total permanent stream impacts:**

69

**3i. Total temporary stream impacts:**

78

**3i. Total stream and ditch impacts:**

147

**3j. Comments:**

Temporary impacts total 0.13 acre. Additional permanent impact to Country Line Creek due to an interior bent being placed in the water totals 29 square feet of impact.

## E. Impact Justification and Mitigation

### 1. Avoidance and Minimization

**1a. Specifically describe measures taken to avoid or minimize the proposed impacts in designing the project: \***

The proposed bridge alignment is in the same location as the existing bridge, which avoids permanent impacts to the wetland WA/WB to the south of the project. The proposed detour bridge is aligned to the north of the existing bridge so as to avoid additional temporary and permanent impacts to wetland WA/WB.

The bridge span and pier locations were selected to minimize the amount of work that would be required in the creek while still being constructable and to reduce the number of bents located in the water from two to one. The proposed bridge does not utilize deck drains, and runoff drains into inlets that have outfalls at riprap pad outlets prior to discharging into Country Line Creek.

**1b. Specifically describe measures taken to avoid or minimize the proposed impacts through construction techniques: \***

\*NCDOT will adhere to Best Management Practices for Construction and Maintenance Activities.

\*No staging of construction equipment or storage of construction supplies will be allowed in wetlands.

\*No mechanized clearing in wetlands is proposed to reduce impacts to wetlands.

\*Temporary access via causeways will be used for both removal of existing structures as well as construction of the new bridge.

## 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?

Yes  No

2b. If this project DOES NOT require Compensatory Mitigation, explain why:

The only impact to wetlands is temporary hand clearing of vegetation, and all permanent impacts to streams are for bank stabilization or bent placement, which are activities that do not result in loss of waters, therefore don't require compensatory mitigation.

NC Stream Temperature Classification Maps can be found under the Mitigation Concepts tab on the Wilmington District's RIBITS website.

## F. Stormwater Management and Diffuse Flow Plan (required by DWR)

\*\*\* Recent changes to the stormwater rules have required updates to this section.\*\*\*

### 1. Diffuse Flow Plan

1a. Does the project include or is it adjacent to protected riparian buffers identified within one of the NC Riparian Buffer Protection Rules?

Yes  No

For a list of options to meet the diffuse flow requirements, click [here](#).

If no, explain why:

The project is located within the Roanoke River basin; to which no riparian buffer rules apply.

### 2. Stormwater Management Plan

2a. Is this a NCDOT project subject to compliance with NCDOT's Individual NPDES permit NCS000250? \*

Yes  No

Comments:

See attached Permit Drawings.

## G. Supplementary Information

### 1. Environmental Documentation

1a. Does the project involve an expenditure of public (federal/state/local) funds or the use of public (federal/state) land? \*

Yes  No

1b. If you answered "yes" to the above, does the project require preparation of an environmental document pursuant to the requirements of the National or State (North Carolina) Environmental Policy Act (NEPA/SEPA)? \*

Yes  No

1c. If you answered "yes" to the above, has the document review been finalized by the State Clearing House? (If so, attach a copy of the NEPA or SEPA final approval letter.) \*

Yes  No

### 2. Violations (DWR Requirement)

2a. Is the site in violation of DWR Water Quality Certification Rules (15A NCAC 2H .0500), Isolated Wetland Rules (15A NCAC 2H .1300), or DWR Surface Water or Wetland Standards or Riparian Buffer Rules (15A NCAC 2B .0200)? \*

Yes  No

### 3. Cumulative Impacts (DWR Requirement)

3a. Will this project (based on past and reasonably anticipated future impacts) result in additional development, which could impact nearby downstream water quality? \*

Yes  No

3b. If you answered "no," provide a short narrative description.

Due to the minimal transportation impact resulting from this bridge replacement, the proposed project would not stimulate additional growth, but could influence nearby land use.

### 4. Sewage Disposal (DWR Requirement)

4a. Is sewage disposal required by DWR for this project? \*

Yes  No  N/A

### 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? \*

Yes  No

**5b. Have you checked with the USFWS concerning Endangered Species Act impacts? \***

Yes  No

**5c. If yes, indicate the USFWS Field Office you have contacted.**

Raleigh

**5d. Is another Federal agency involved? \***

Yes  No  Unknown

**What Federal Agency is involved?**

FHWA

**5e. Is this a DOT project located within Division's 1-8? \***

Yes  No

**5j. What data sources did you use to determine whether your site would impact Endangered Species or Designated Critical Habitat? \***

USFWS Information for Planning and Consultation (IPaC)

FHWA is the lead federal agency for this project. As of 11/14/23, IPaC lists Roanoke logperch and Atlantic pigtoe within the project area. Tricolored bat is also listed as proposed endangered. The USFWS concurred with a biological conclusion of May Affect, Not Likely to Adversely Affect for the listed aquatic species on 2/28/22.

## 6. Essential Fish Habitat (Corps Requirement)

**6a. Will this project occur in or near an area designated as an Essential Fish Habitat? \***

Yes  No

**6b. What data sources did you use to determine whether your site would impact an Essential Fish Habitat? \***

NOAA Fisheries EFH Mapper. <https://www.habitat.noaa.gov/apps/efhmapper/>

## 7. Historic or Prehistoric Cultural Resources (Corps Requirement)

Link to the State Historic Preservation Office Historic Properties Map (does not include archaeological data: <http://gis.ncdcr.gov/hpweb/>)

**7a. Will this project occur in or near an area that the state, federal or tribal governments have designated as having historic or cultural preservation status (e.g., National Historic Trust designation or properties significant in North Carolina history and archaeology)? \***

Yes  No

**7b. What data sources did you use to determine whether your site would impact historic or archeological resources? \***

See attached Archaeology Form, Historic Properties and Landscapes Form, and Tribal Coordination.

## 8. Flood Zone Designation (Corps Requirement)

Link to the FEMA Floodplain Maps: <https://msc.fema.gov/portal/search>

**8a. Will this project occur in a FEMA-designated 100-year floodplain? \***

Yes  No

**8b. If yes, explain how project meets FEMA requirements:**

**8c. What source(s) did you use to make the floodplain determination? \***

FEMA National Flood Hazard Viewer. <https://hazards-fema.maps.arcgis.com/apps/webappviewer/index.html?id=8b0adb51996444d4879338b5529aa9cd>

## Miscellaneous

### Comments

Please use the space below to attach all required documentation or any additional information you feel is helpful for application review. Documents should be combined into one file when possible, with a Cover Letter, Table of Contents, and a Cover Sheet for each Section preferred.

Click the upload button or drag and drop files here to attach document

BR-0069 Caswell November 14 2023.pdf

15.81MB

File must be PDF or KMZ

## Signature

\*

By checking the box and signing below, I certify that:

- The project proponent hereby certifies that all information contained herein is true, accurate, and complete to the best of my knowledge and belief; and
- The project proponent hereby requests that the certifying authority review and take action on this CWA 401 certification request within the applicable reasonable period of time.
- I have given true, accurate, and complete information on this form;
- I agree that submission of this PCN form is a "transaction" subject to Chapter 66, Article 40 of the NC General Statutes (the "Uniform Electronic Transactions Act");
- I agree to conduct this transaction by electronic means pursuant to Chapter 66, Article 40 of the NC General Statutes (the "Uniform Electronic Transactions Act");

- I understand that an electronic signature has the same legal effect and can be enforced in the same way as a written signature; AND
- I intend to electronically sign and submit the PCN form.

**Full Name:**\*

Erin K. Cheely

**Signature**\*



Erin K. Cheely

**Date**

11/14/2023

# Permit Drawings



North Carolina Department of Transportation  
 Highway Stormwater Program  
**STORMWATER MANAGEMENT PLAN**  
 FOR NCDOT PROJECTS



(Version 3.00; Released August 2021)

**WBS Element:** 67069.1.1      **TIP/Proj No:** BR-0069      **County(ies):** Caswell      **Page** 1 **of** 2

**General Project Information**

<b>WBS Element:</b>	67069.1.1	<b>TIP Number:</b>	BR-0069	<b>Project Type:</b>	Bridge Replacement	<b>Date:</b>	9/11/2023
<b>NCDOT Contact:</b>	Galen Cail			<b>Contractor / Designer:</b>	Cameron Long, PE		
<b>Address:</b>	Hydraulics Unit 1000 Birch Ridge Drive Raleigh, NC 27610			<b>Address:</b>	Moffatt & Nichol 4700 Falls of Neuse Rd, Suite 300 Raleigh, NC 27609		
	<b>Phone:</b> (919)707-6711				<b>Phone:</b> (919) 781-4626		
	<b>Email:</b> <a href="mailto:gcail@ncdot">gcail@ncdot</a>				<b>Email:</b> <a href="mailto:clong@moffattnichol.com">clong@moffattnichol.com</a>		
<b>City/Town:</b>	Yanceyville			<b>County(ies):</b>	Caswell		
<b>River Basin(s):</b>	Roanoke			<b>CAMA County?</b>	No		
<b>Wetlands within Project Limits?</b>	Yes						

**Project Description**

<b>Project Length (lin. miles or feet):</b>	0.27	<b>Surrounding Land Use:</b>	RURAL, AGRICULTURE, WOODS					
	<b>Proposed Project</b>			<b>Existing Site</b>				
<b>Project Built-Up Area (ac.)</b>	1.3	ac.	1.1	ac.				
<b>Typical Cross Section Description:</b>	THE PROPOSED ROADWAY WILL BE A TWO-WAY ALIGNMENT WITH 12' TRAVEL LANES, 4' PAVED SHOULDERS, AND VARYING SLOPES. THE PROPOSED BRIDGE HAS AN OUT TO OUT OF 47'-3" AND CLEAR ROADWAY OF 44'. THE BRIDGE WILL HAVE 12' TRAVEL LANES AND 10' PAVED SHOULDERS.			THE EXISTING ROADWAY IS A TWO-WAY ALIGNMENT WITH 12' TRAVEL LANES, 3.5' PAVED SHOULDER, AND 4:1 SLOPES. THE EXISTING BRIDGE HAS AN OUT TO OUT OF 43'.				
<b>Annual Avg Daily Traffic (veh/hr/day):</b>	<b>Design/Future:</b>	10,025	<b>Year:</b>	2043	<b>Existing:</b>	8,525	<b>Year:</b>	2023

**General Project Narrative:**  
 (Description of Minimization of Water Quality Impacts)

The project consists of the replacement of bridge #160001 in Caswell County. The existing bridge carries US-158/NC-86 over County Line Creek between US-158 and NC-62. The creek is called Country Line Creek on the vicinity map, the final survey file, and at the NCDEQ Surface Waters Classification website and is referring to the same stream. The proposed structure for bridge #160001 is 1@80', 1@90', 1@80' 54" Girders with 4'-0" deep caps. The proposed alignment is at the same location as the existing alignment. There are wetlands located within the project limits. The proposed detour alignment is located to the north and on the downstream side of the project. The detour bridge typical is two 11' travel lanes with 4' paved shoulders.

**STORMWATER CONTROLS:**  
 The proposed bridge does not utilize deck drains. Runoff from the bridge roadway and paved shoulders at the bridge approaches drains into inlets. The stormwater is then diffused at riprap pad outlets prior to discharging into County Line Creek. Shoulders will be paved. Bank Stabilization is planned to prevent erosion of the streambanks.

**MINIMIZATION:**  
 The detour bridge was shifted to the north avoiding impacts to the wetlands located south of the existing bridge and alignment. The bridge span and pier locations were selected to minimize the amount of work that would be required in the creek while still being constructable and to reduce the number of bents located in the creek from two to one.



North Carolina Department of Transportation  
 Highway Stormwater Program  
**STORMWATER MANAGEMENT PLAN**  
 FOR NCDOT PROJECTS



(Version 3.00; Released August 2021)

WBS Element: 67069.1.1      TIP/Proj No.: BR-0069      County(ies): Caswell      Page 2 of 2

**General Project Information**

**Waterbody Information**

Surface Water Body (1):	Country Line Creek	NCDWR Stream Index No.:	22-56-(3.7)
NCDWR Surface Water Classification for Water Body	Primary Classification:	Class C	
	Supplemental Classification:		
Other Stream Classification:			
Impairments:	None		
Aquatic T&E Species?	No	Comments:	
NRTR Stream ID:	Country Line Creek	Buffer Rules in Effect:	N/A
Project Includes Bridge Spanning Water Body?	Yes	Deck Drains Discharge Over Buffer?	No
Deck Drains Discharge Over Water Body?	No	(If yes, provide justification in the General Project Narrative)	Dissipator Pads Provided in Buffer?
(If yes, provide justification in the General Project Narrative)			(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)

Surface Water Body (2):		NCDWR Stream Index No.:	
NCDWR Surface Water Classification for Water Body	Primary Classification:		
	Supplemental Classification:		
Other Stream Classification:			
Impairments:			
Aquatic T&E Species?		Comments:	
NRTR Stream ID:		Buffer Rules in Effect:	
Project Includes Bridge Spanning Water Body?		Deck Drains Discharge Over Buffer?	
Deck Drains Discharge Over Water Body?		(If yes, provide justification in the General Project Narrative)	Dissipator Pads Provided in Buffer?
(If yes, provide justification in the General Project Narrative)			(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)

Surface Water Body (3):		NCDWR Stream Index No.:	
NCDWR Surface Water Classification for Water Body	Primary Classification:		
	Supplemental Classification:		
Other Stream Classification:			
Impairments:			
Aquatic T&E Species?		Comments:	
NRTR Stream ID:		Buffer Rules in Effect:	
Project Includes Bridge Spanning Water Body?		Deck Drains Discharge Over Buffer?	
Deck Drains Discharge Over Water Body?		(If yes, provide justification in the General Project Narrative)	Dissipator Pads Provided in Buffer?
(If yes, provide justification in the General Project Narrative)			(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)

09/08/2023

9/11/2023 9:14 AM 10001-109\BR-0069\Hydraulics\PERMITS\_Environmental\PSH\_WET\BR-0069\_Hyd.prj\_m\_wet\_01.tsh.dgn  
tdavenport

**CONTRACT: TIP PROJECT: BR-0069**

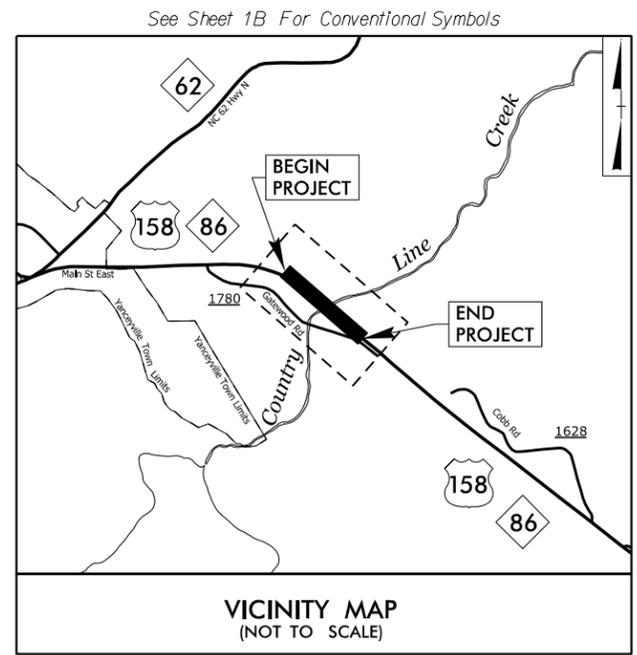
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS  
**CASWELL COUNTY**

**LOCATION: BRIDGE NO. 160001 OVER COUNTRY LINE CREEK ON  
US 158 / NC 86**  
**TYPE OF WORK: PAVING, GRADING, DRAINAGE, AND STRUCTURES**

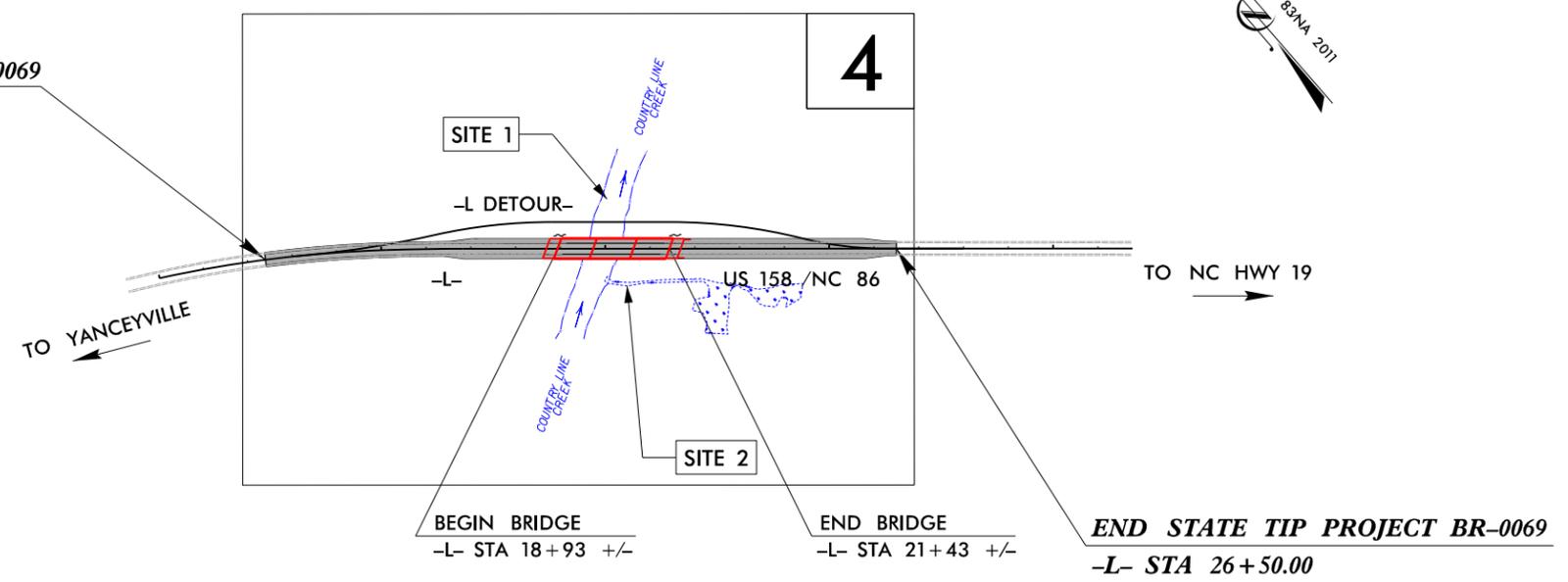
**WETLAND AND SURFACE WATER IMPACTS PERMIT**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	BR-0069	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
67069.1.1	N/A	PE	

**PERMIT DRAWING  
SHEET 1 OF 9**

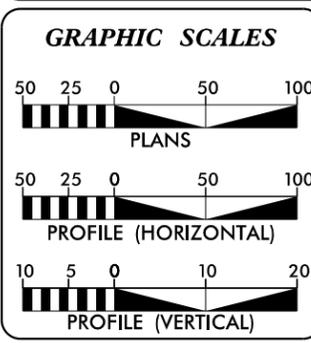


**BEGIN STATE TIP PROJECT BR-0069**  
-L- STA 12+40.00



THIS IS CONTROLLED OF ACCESS PROJECT.  
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD \_\_\_\_\_

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED



**DESIGN DATA**

ADT 2023 =	8,525
ADT 2043 =	10,025
K =	TBD %
D =	TBD %
T =	10 % *
V =	60 MPH
* TTST =	6% DUAL 4%
FUNC CLASS =	PRINCIPAL RURAL ARTERIAL
	-REGIONAL TIER

**PROJECT LENGTH**

LENGTH ROADWAY TIP PROJECT BR-0069	=	0.220
LENGTH STRUCTURE TIP PROJECT BR-0069	=	0.047
TOTAL LENGTH TIP PROJECT BR-0069	=	0.267

Prepared for NCDOT in the Office of:

**moffatt & nichol**  
4700 FALLS OF NEUSE ROAD, SUITE 300  
RALEIGH, NORTH CAROLINA 27609  
(919) 781-4626 VOICE (919) 781-4669 FAX  
NC License NO.: F-0105

2018 STANDARD SPECIFICATIONS

**RIGHT OF WAY DATE:**  
MAY 15, 2023

**LETTING DATE:**  
FEBRUARY 20, 2024

**TRENT HUFFMAN, P.E.**  
PROJECT ENGINEER

**GRAY MODLIN, P.E.**  
PROJECT DESIGN ENGINEER

**DAVID STUTTS, P.E.**  
NCDOT CONTACT

**HYDRAULICS ENGINEER**

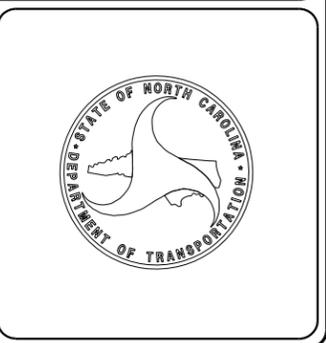
**moffatt & nichol**

SIGNATURE: \_\_\_\_\_ P.E.

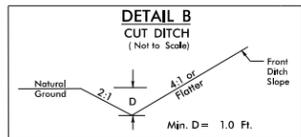
**ROADWAY DESIGN ENGINEER**

**moffatt & nichol**

SIGNATURE: \_\_\_\_\_ P.E.



8/17/99



FROM STA. -LDET- 11+40 LT TO STA. -LDET- 13+47 LT

# -LDET-

15 15 TEMPORARY SURFACE WATER IMPACTS

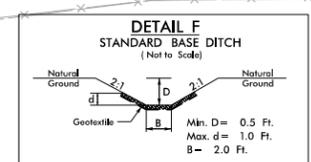
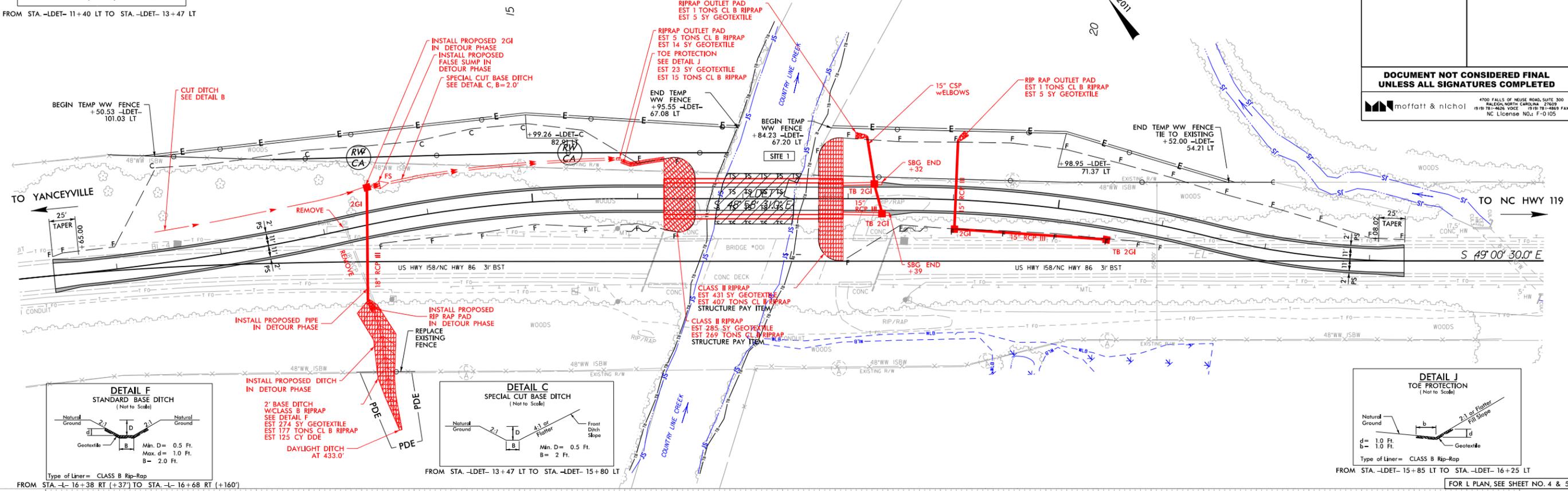
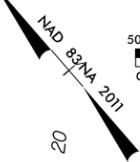
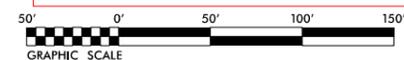
## PERMIT DRAWING SHEET 2 OF 9

PROJECT REFERENCE NO. BR-0069	SHEET NO. 2B-1
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

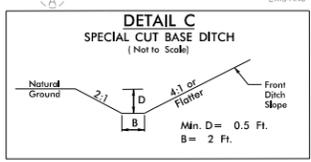
**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**

moffatt & nichol

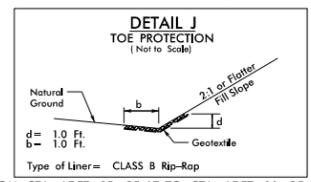
4700 FALLS OF NEUSE ROAD, SUITE 300  
RALEIGH, NORTH CAROLINA 27609  
(919) 781-4626 VOICE (919) 781-4869 FAX  
NC License No. F-0105



FROM STA. -L- 16+38 RT (+37') TO STA. -L- 16+68 RT (+160')



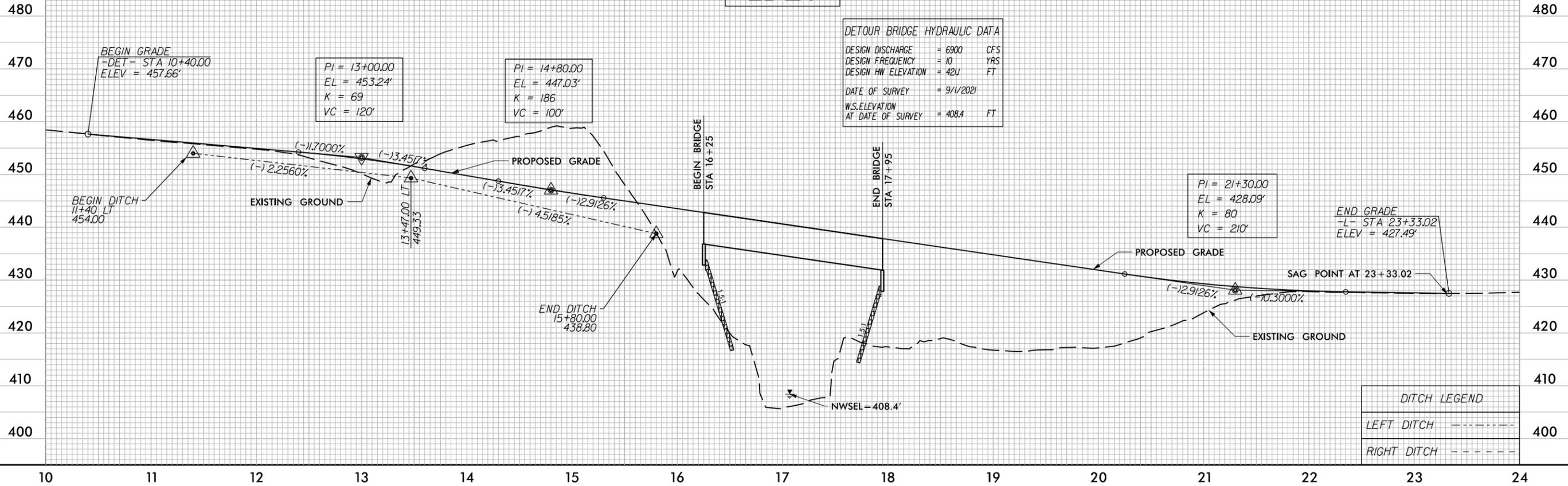
FROM STA. -LDET- 13+47 LT TO STA. -LDET- 15+80 LT



FROM STA. -LDET- 15+85 LT TO STA. -LDET- 16+25 LT

FOR L PLAN, SEE SHEET NO. 4 & 5

# -LDET-



DESIGN DISCHARGE	= 6900	CFS
DESIGN FREQUENCY	= 10	YRS
DESIGN HW ELEVATION	= 42U	FT
DATE OF SURVEY	= 9/1/2021	
W.S. ELEVATION AT DATE OF SURVEY	= 408.4	FT

LEFT DITCH	-----
RIGHT DITCH	-----

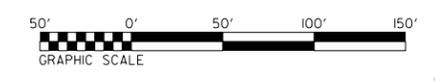
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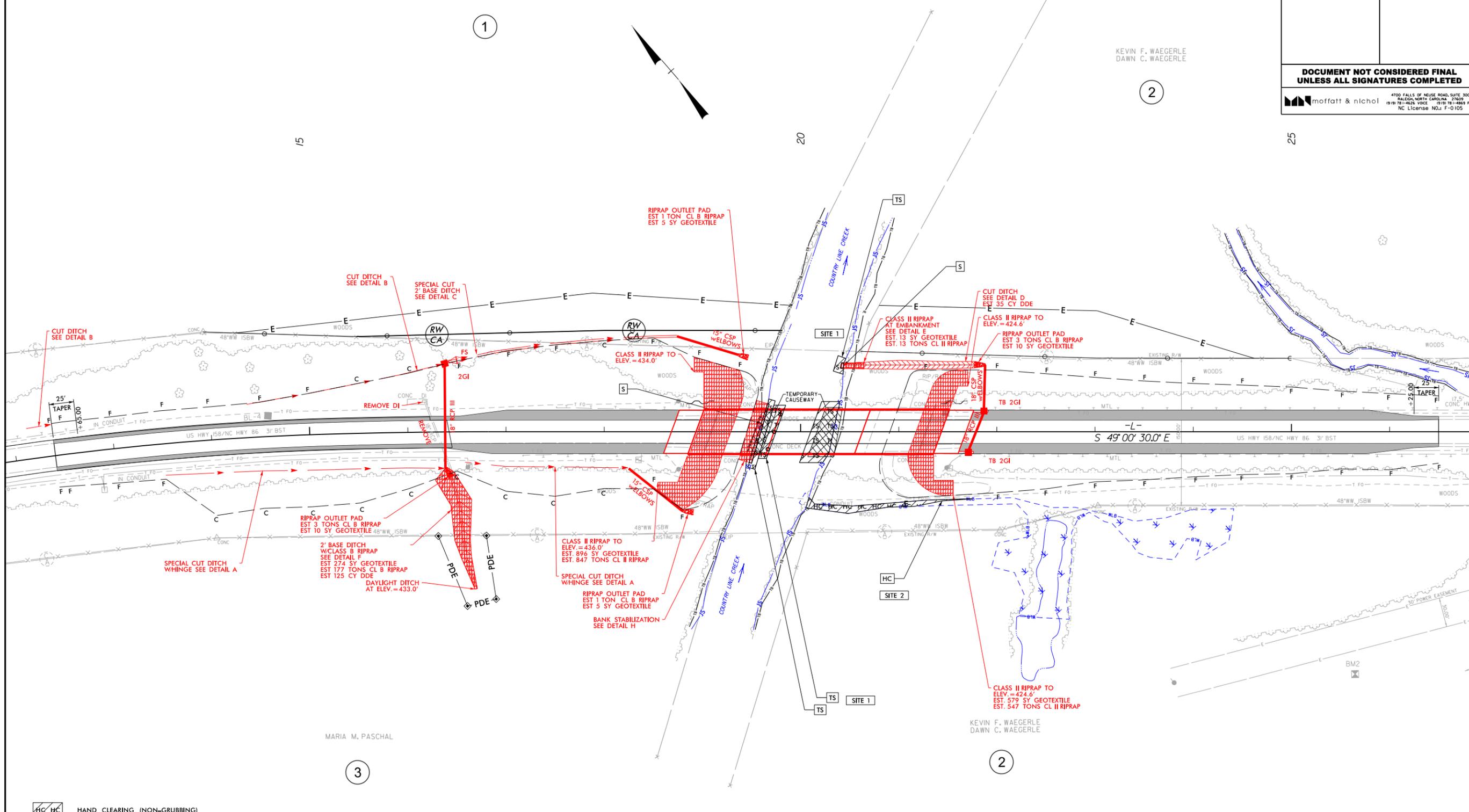
8/17/99  
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W. MAYNARD GREGORY REVOCABLE TRUST  
OF 2014 DATED JANUARY 16, 2014

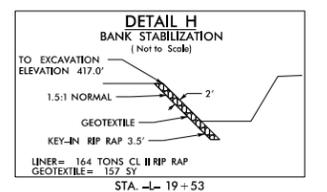
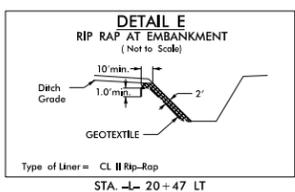
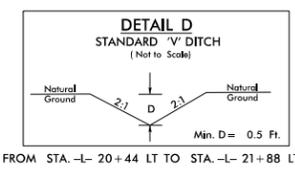
**PERMIT DRAWING  
SHEET 4 OF 9**



PROJECT REFERENCE NO. <i>BR-0069</i>		SHEET NO. 4	
RW SHEET NO.		HYDRAULICS	
ROADWAY DESIGN ENGINEER		ENGINEER	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>			
moffatt & nichol		<small>4700 FALLS OF NEUSE ROAD, SUITE 300 RALEIGH, NORTH CAROLINA 27609 (919) 781-4626 VOICE (919) 781-4868 FAX NC License No.: F-0105</small>	

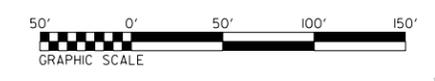


- HC HC** HAND CLEARING (NON-GRUBBING)
- TS TS** TEMPORARY SURFACE WATER IMPACTS
- S S** SURFACE WATER IMPACTS



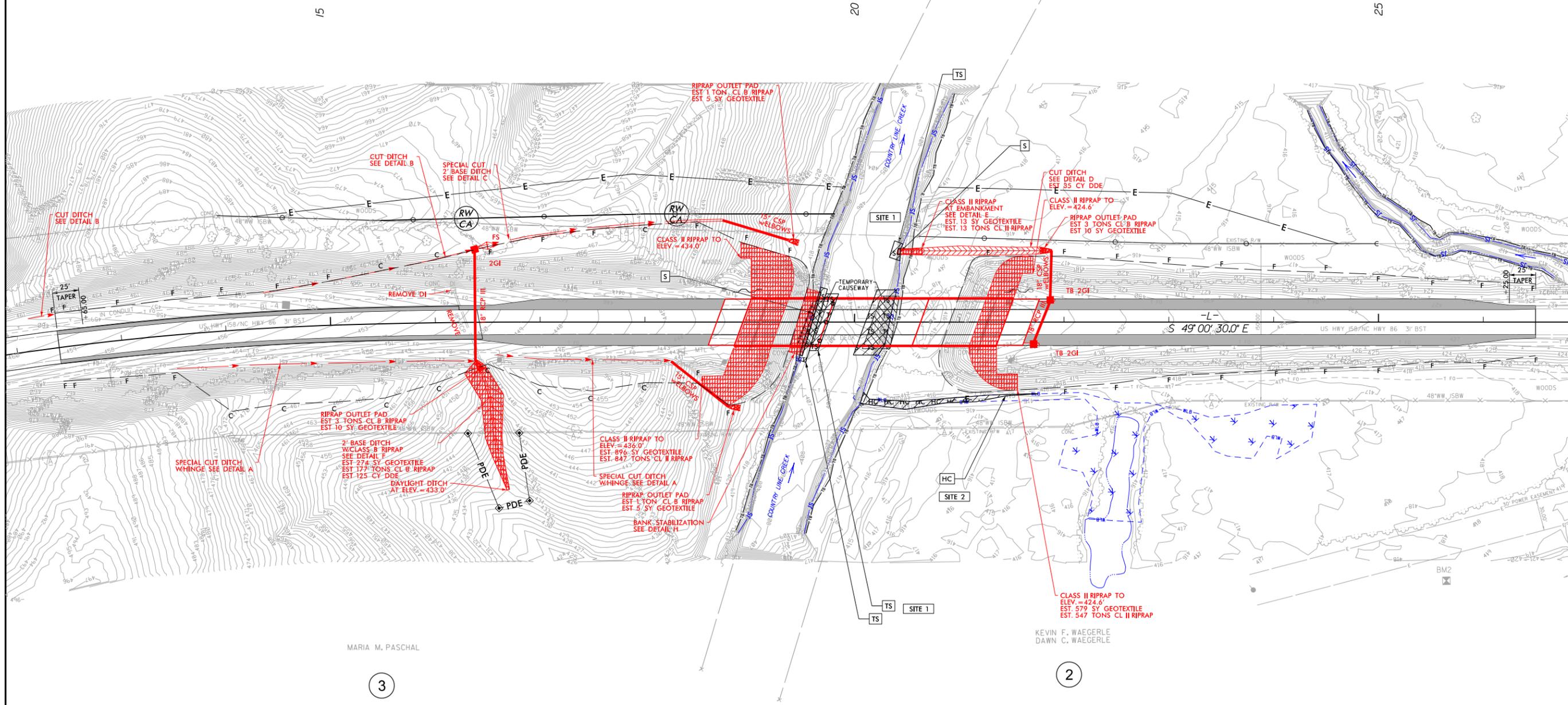
8/17/99  
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W. MAYNARD GREGORY REVOCABLE TRUST  
OF 2014 DATED JANUARY 16, 2014

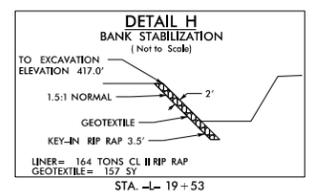
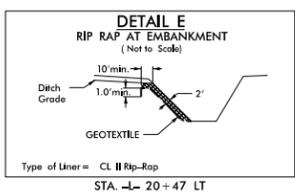
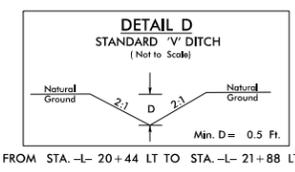


**PERMIT DRAWING  
SHEET 5 OF 9**

PROJECT REFERENCE NO. BR-0069	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	



- HAND CLEARING (NON-GRUBBING)
- TEMPORARY SURFACE WATER IMPACTS
- SURFACE WATER IMPACTS



FOR -L- PROFILE, SEE SHEET NO. 5

5/28/99

# -L- US 158 / NC 86 BRIDGE #160001

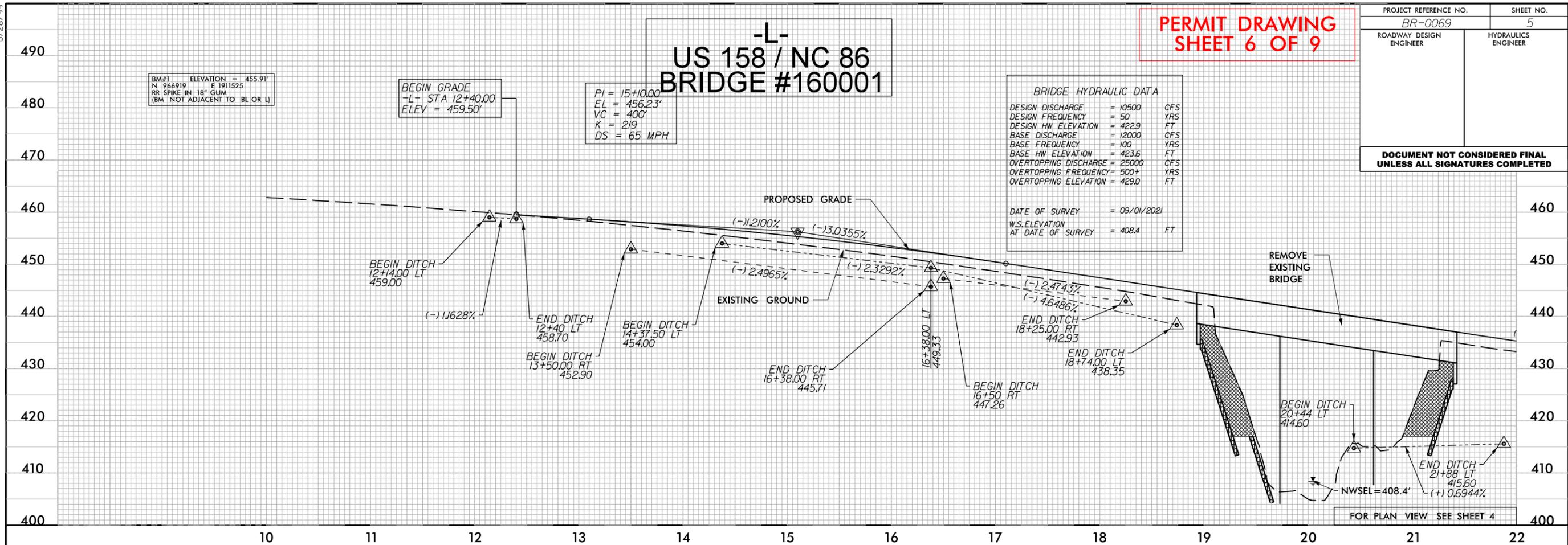
**PERMIT DRAWING  
SHEET 6 OF 9**

PROJECT REFERENCE NO. BR-0069	SHEET NO. 5
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

**BRIDGE HYDRAULIC DATA**

DESIGN DISCHARGE	= 10500	CFS
DESIGN FREQUENCY	= 50	YRS
DESIGN HW ELEVATION	= 422.9	FT
BASE DISCHARGE	= 12000	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 423.6	FT
OVERTOPPING DISCHARGE	= 25000	CFS
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING ELEVATION	= 429.0	FT

DATE OF SURVEY = 09/01/2021  
W.S. ELEVATION AT DATE OF SURVEY = 408.4 FT

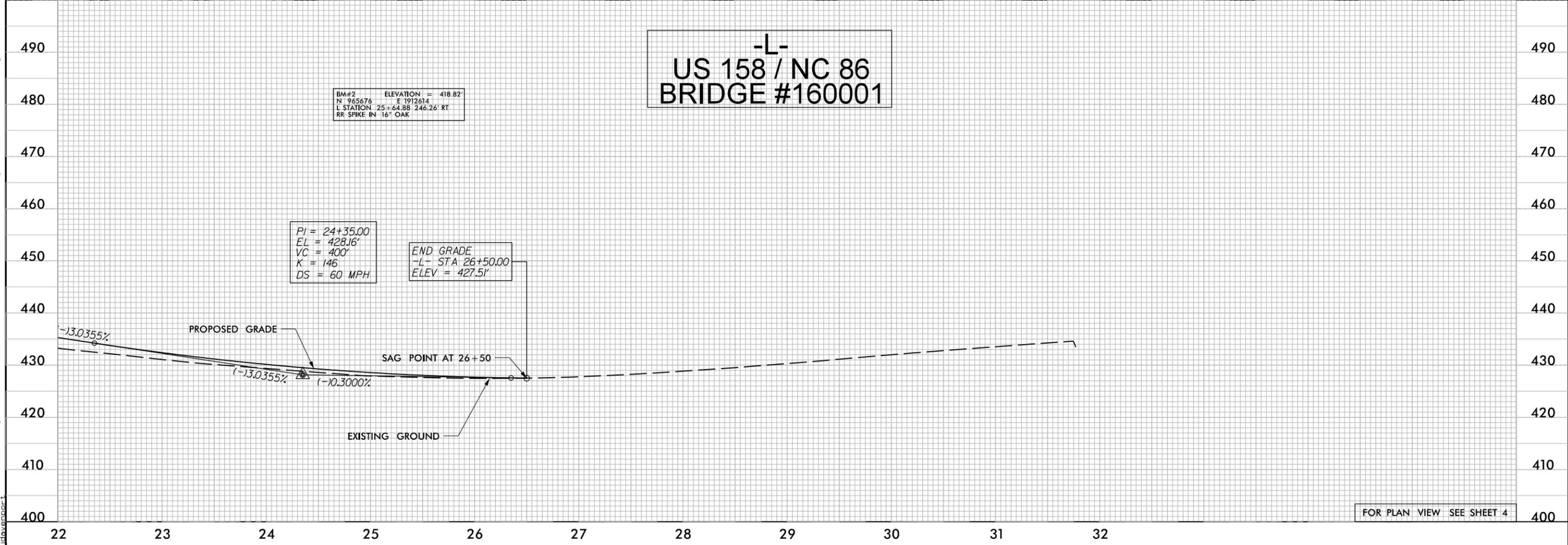


# -L- US 158 / NC 86 BRIDGE #160001

BM#2 ELEVATION = 418.82'  
N 945676 E 1912614  
I STATION 25+64.89 246.26' RT  
RR SPIKE IN 16\"/>

PI = 24+35.00  
EL = 428.16'  
VC = 400'  
K = 146  
DS = 60 MPH

END GRADE  
-L- STA 26+50.00  
ELEV = 427.51'



D:\2023\05\28\101-109\BR-0069\Hydraulics\PERMITS.Environmental\PSH.WET\BR-0069\_Hyd.prm\_wet\_06\_pah5PFL.dgn

FOR PLAN VIEW SEE SHEET 4

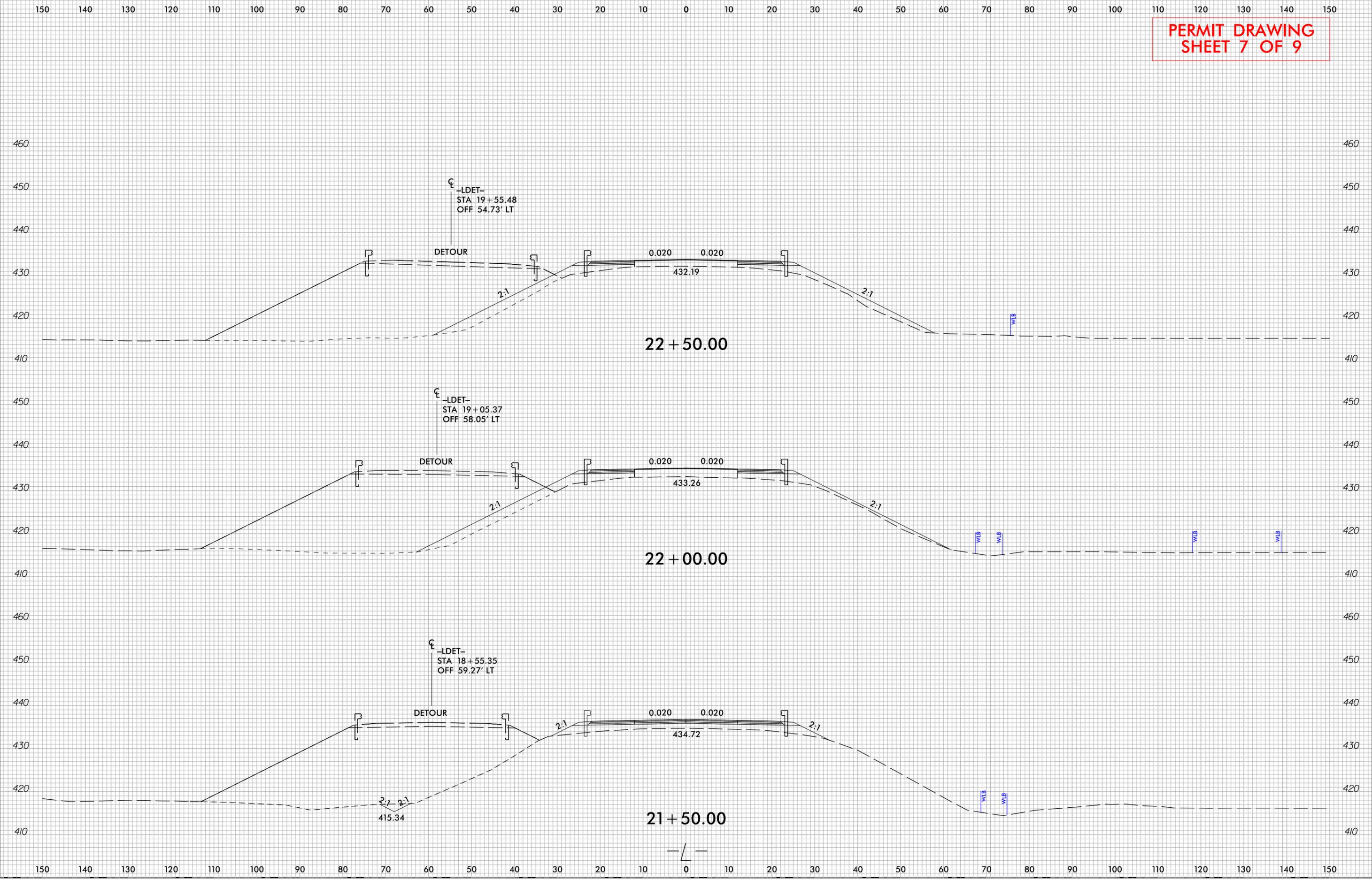
6/23/16



PROJ. REFERENCE NO.  
BR-0069

SHEET NO.  
X-14

**PERMIT DRAWING  
SHEET 7 OF 9**

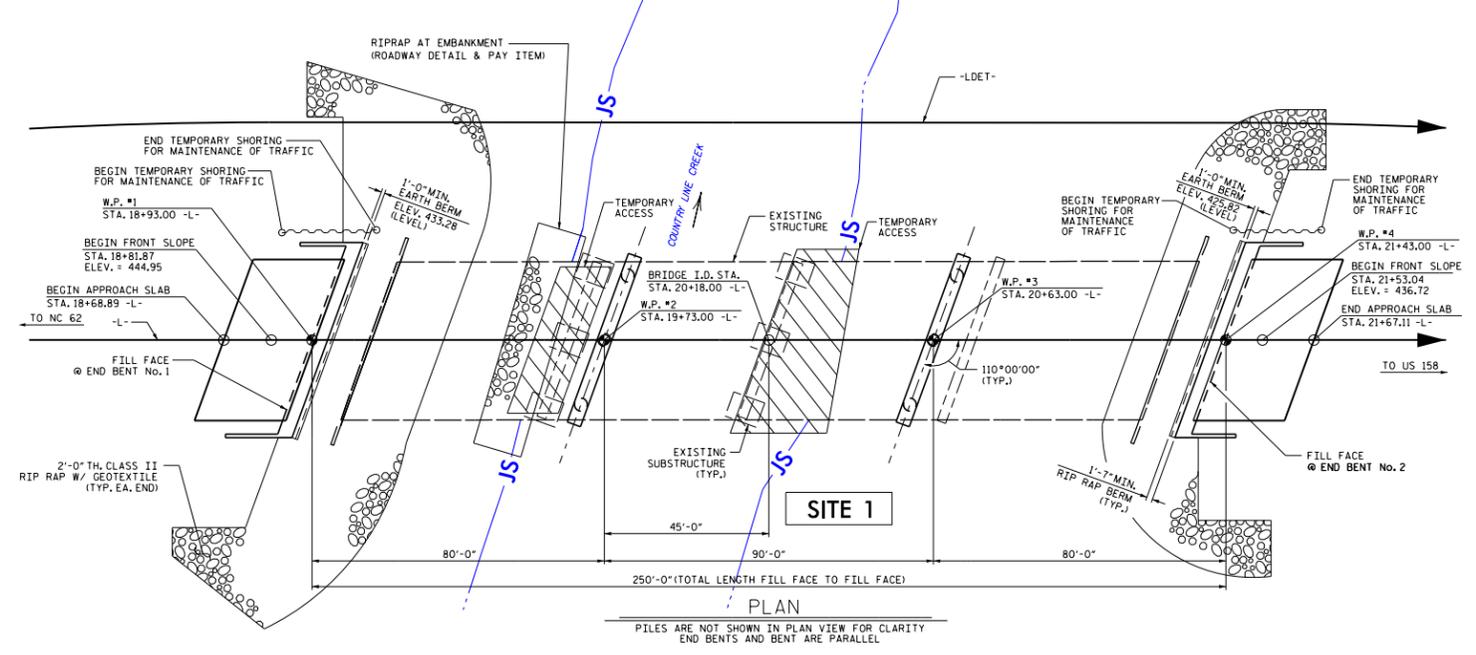
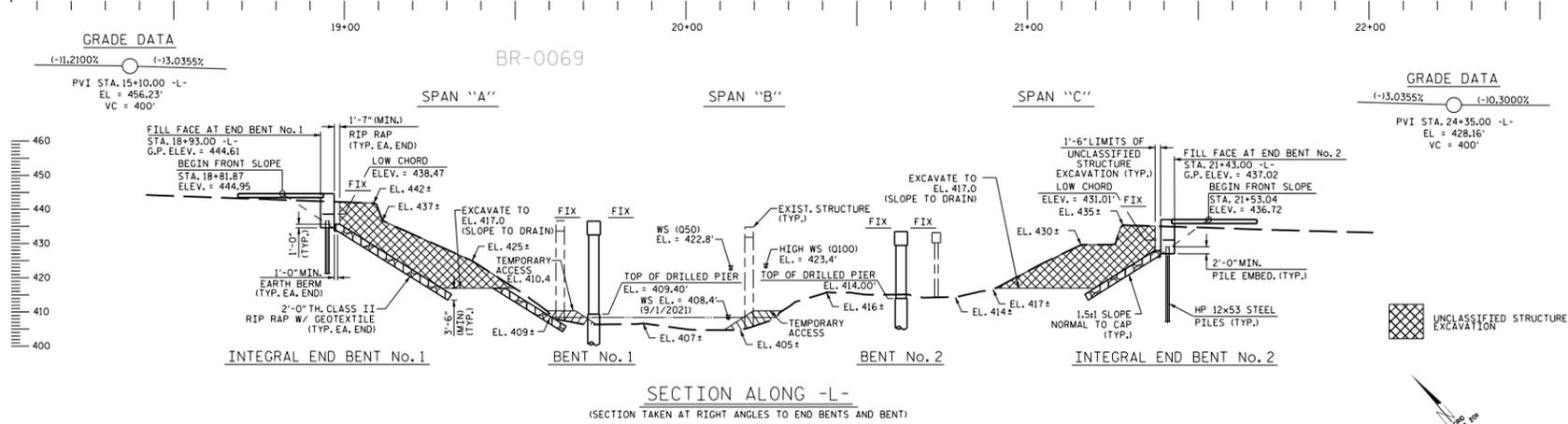


9/1/2023  
G:\RA\10011-109\BR-0069\Hydraulics\PERMITS\_Environmental\PSH\_WET\BR-0069\_Hyd.prm\_wet\_07\_XPL\_L X-14.dgn  
develop

8/17/99

PROJECT REFERENCE NO. <i>BR-0069</i>		SHEET NO.	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER		
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>			

**PERMIT DRAWING  
SHEET 8 OF 9**



I HEREBY CERTIFY THESE PLANS ARE THE AS-BUILT PLANS

D:\RA\1001-1099\BR-0069\Hydro\PERMITS\Environmental\PSH WET\BR-0069\_Hyd.prm\_wet\_08\_psh4-Workpad.dgn

## WETLAND AND SURFACE WATER IMPACTS SUMMARY

Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS					SURFACE WATER IMPACTS				
			Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
1	-L- 19+45 RT to 19+78 LT	Bank Stabilization						< 0.01	< 0.01	63	10	
1	-L- 19+57 RT to 20+40 LT	Temporary Causeway							0.05		21	
1	-L- 20+33 LT to 20+46 LT	Bank Stabilization						< 0.01	< 0.01	6	10	
1	-DET- 16+73RT to 17+56LT	Detour Bridge							0.08		37	
2	-L- 20+05 RT to 21+75 RT	Roadway Fill					0.02					
<b>TOTALS*:</b>							0.02	< 0.01	0.13	69	78	0

\*Rounded totals are sum of actual impacts

NOTES:  
 INTERIOR BENT - PERMANENT STREAM IMPACTS AREA = 29 SQUARE FEET

NC DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 9/11/2023  
 CASWELL COUNTY  
 BR-0069  
 67069.1.1  
 SHEET 9 OF 9

# Protected Species/ Section 7



## United States Department of the Interior



FISH AND WILDLIFE SERVICE  
Raleigh ES Field Office  
Post Office Box 33726  
Raleigh, North Carolina 27636-3726  
February 28, 2022

Jerry Parker  
NC Department of Transportation  
P.O. Box 14996  
Greensboro, North Carolina 27415

Dear Mr. Parker:

This letter is in response to your email of February 21, 2022 which provided the U.S. Fish and Wildlife Service (Service) with the biological conclusion of the North Carolina Department of Transportation that the replacement of Bridge No. 1 on US 158 over Country Line Creek in Caswell County (STIP No. BR-0069) may affect, but is not likely to adversely affect the federally endangered Roanoke Logperch (*Percina rex*), federally endangered James Spiny mussel (*Parvaspina collina*), and federally threatened Atlantic Pigtoe (*Fusconaia masoni*). The following response is provided in accordance with Section 7 of the Endangered Species Act (ESA) of 1973, as amended (16 U.S.C. 1531-1543).

According to the information provided, fish and mussel surveys were conducted in the project area on August 10 and 11, 2021. None of the listed species were observed. Based on the survey results and other available information, the Service concurs with your conclusion that the proposed action may affect, but is not likely to adversely affect the Roanoke Logperch, James Spiny mussel, and Atlantic Pigtoe. We believe that the requirements of Section 7(a)(2) of the ESA have been satisfied. We remind you that obligations under Section 7 consultation must be reconsidered if: (1) new information reveals impacts of this identified action that may affect listed species or critical habitat in a manner not previously considered in this review; (2) this action is subsequently modified in a manner that was not considered in this review; or (3) a new species is listed or critical habitat determined that may be affected by this identified action. If you have any questions regarding our response, please contact Mr. Gary Jordan at [gary\\_jordan@fws.gov](mailto:gary_jordan@fws.gov).

Sincerely,

Pete Benjamin  
Field Supervisor

Electronic copy:

David Bailey, USACE, Wake Forest, NC  
Travis Wilson, NCWRC, Creedmoor, NC

# Archaeology



***Brief description of review activities, results of review, and conclusions:***

On October 10, 2018, NCDOT archaeologist, Shane Petersen, recommended further archaeological investigation of the proposed APE based on topographic and soil mapping that suggested the possibility for microenvironmental conditions suitable for the preservation of archaeological deposits in some portions of the project area. An archaeological reconnaissance survey was recommended that would visually inspect all portions of the APE to determine which areas might retain a higher probability for archaeological site location. Those areas were then to be subjected to intensive subsurface investigation.

Prior to initiating the archaeological field investigations, researchers with Johnson, Mirmiran, and Thompson, Inc. (JMT), conducted background archaeological research at the North Carolina Office of State Archaeology in Raleigh (OSA). According to the records at OSA one archaeological site, 31CS68, a prehistoric site that was not considered to be eligible for inclusion on the National Register of Historic Places (NRHP), was located within a 1-mile radius of the proposed project.

The archaeological Survey for Bridge No. 1 in Caswell County was undertaken as part of a series of investigations undertaken by archaeologists with JMT from May 24 – June 1, 2019. Shovel tests were excavated at intervals of 30 meters. Areas that exhibited disturbance, severe slope, inundation, or were marked during wetland delineations were not shovel tested. A significant portion of the APEs were not excavated due to steeply sloped landforms, areas of severe erosion and soil deflation, residential development, and low-lying wet areas. All areas not subjected to subsurface testing were visually inspected and pedestrian surveyed.

The following description of the results of the archaeological survey have been adapted from JMT's archaeological report (Minford 2019), which is on file with the Environmental Analysis Unit at NCDOT.

The study area for Bridge No. 1 measures 610m in length and 122m wide along US 158/NC 86 over Country Line Creek. A total of 27 shovel test locations were investigated, of which, all were negative. Portions of the APE were not shovel tested due predominately to severe slope or low-lying wet areas. A large portion of the APE contained either severe slope (approximately 3 acres) or was low lying and wet (approximately 6 acres). The remains of a cinder block structure were noted in the northeastern quadrant of the APE. A judgmental shovel test was excavated in this area but was designated 'negative' for archaeological deposits as a result of nothing more than modern trash recovered within the first stratum. This structure is interpreted as modern in nature. Soils observed within the western portion of the APE were shallow and eroded due to severe slope. Soils recorded in the eastern portion of the APE were deeper but contained hydric soils. A typical soil profile within the latter portion of the APE is:

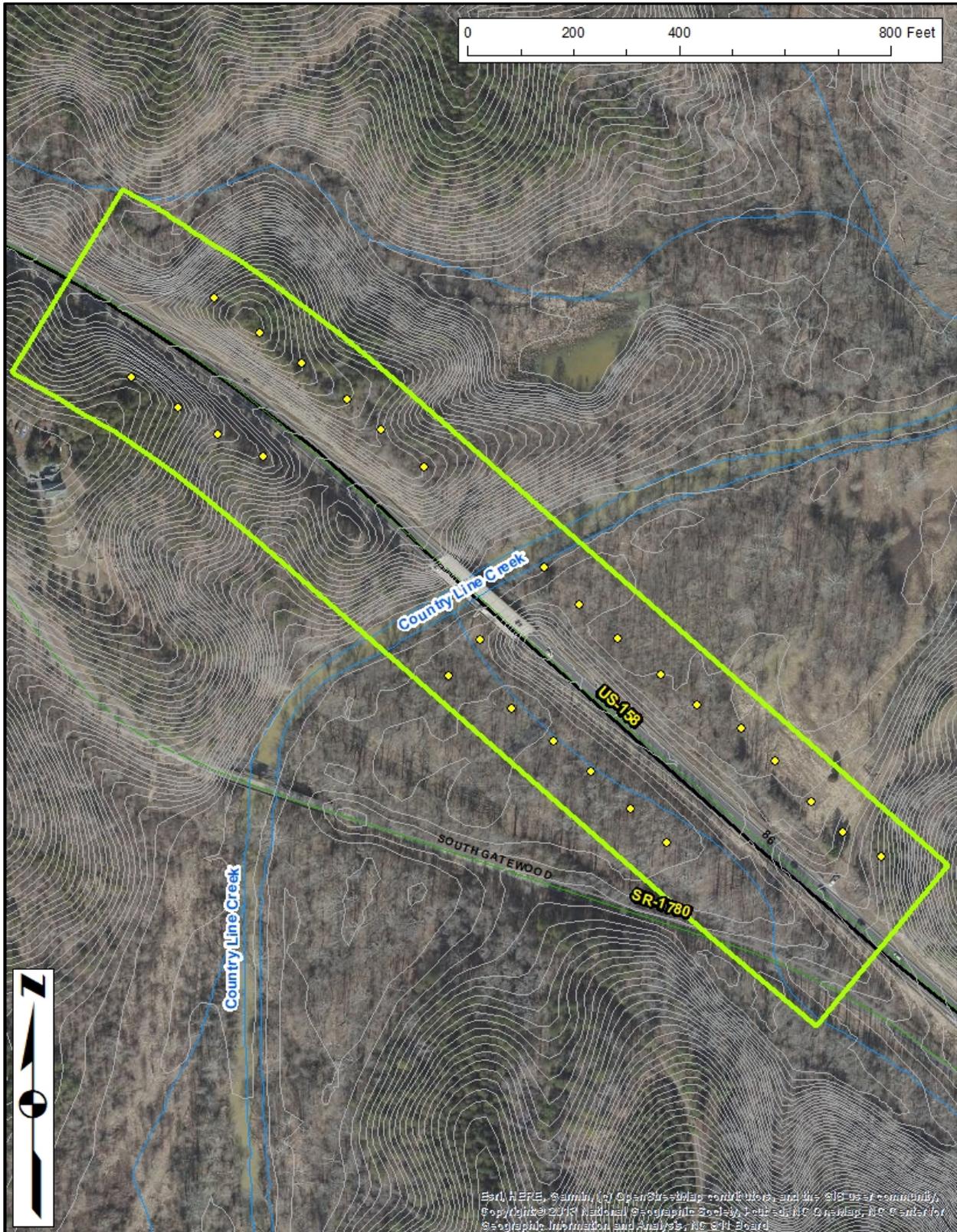
Stratum I (0 – 40 cm): 10YR 4/3 brown sandy loam  
Stratum II (40 - 50 cm): 10YR 4/3 brown hydric sand

No archaeological sites were identified within the APE, and no further work is recommended for this area as currently designed.

**References Cited:**

Minford, L. and C. Herrnstadt

2019 *Phase I Archaeological Survey, Proposed Replacement of Bridge Nos. 1, 7, & 61 in Caswell County; and Bridge Nos. 35, 170, 176, 178, & 183 in Rockingham County*. Ms. on file, Environmental Analysis Unit, North Carolina Department of Transportation, Raleigh.



Aerial photograph with 2-foot contours depicting the APE for the proposed replacement of Bridge No. 1 on US 158 over Country Line Creek; note the locations of subsurface tests (yellow dots).



Photograph of low-lying wet area within Bridge No. 1 APE, facing Northwest (Minford and Herrstadt 2019: 41).



Photograph of Cinder block structure located in northeastern corner of Bridge 1 APE (Minford and Herrstadt 2019: 42).

*"NO NATIONAL REGISTER ELIGIBLE OR LISTED ARCHAEOLOGICAL SITES PRESENT"  
form for the Amended Minor Transportation Projects as Qualified in the 2007 Programmatic Agreement.*

# Historic Architecture and Landscapes

18-09-0045



## HISTORIC ARCHITECTURE AND LANDSCAPES NO SURVEY REQUIRED FORM

This form only pertains to Historic Architecture and Landscapes for this project. It is not valid for Archaeological Resources. You must consult separately with the Archaeology Group.

### PROJECT INFORMATION

<b>Project No.:</b>	BR-0069	<b>County:</b>	Caswell
<b>WBS No.:</b>	67069.1.1	<b>Document Type:</b>	MCC
<b>Fed. Aid No.:</b>		<b>Funding:</b>	<input checked="" type="checkbox"/> State <input type="checkbox"/> Federal
<b>Federal Permit(s):</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<b>Permit Type(s):</b>	USACE

#### **Project Description:**

Replace Bridge No. 1 on US 158/NC 86 over County Line Creek near Yanceyville. No preliminary designs were available at the time of the cultural resources review, but a study area was submitted with the request. This study area generally consists of a corridor roughly 200 feet long and 400 feet wide. For the purposes of the archaeological review, this study area will be considered to be the area of potential effects (APE).

### SUMMARY OF HISTORIC ARCHITECTURE AND LANDSCAPES REVIEW

#### **Description of review activities, results, and conclusions:**

Review of project area on HPOWeb GIS was conducted in November 2018. There are no existing NR, SL, DE, LD or SS properties in the project area. Constructed in 1970, Bridge No.1 does not meet the NR criteria consideration for exceptional importance for properties less than 50 years of age. There do not appear to be any significant historic architectural resources within the project area, therefore no further survey is required.

#### **Why the available information provides a reliable basis for reasonably predicting that there are no unidentified significant historic architectural or landscape resources in the project area:**

HPO GIS data, Google StreetView and Caswell County property records are considered valid tools for the purposes of determining the likelihood of historic resources.

### SUPPORT DOCUMENTATION

Map(s)    Previous Survey Info.    Photos    Correspondence    Design Plans



**APE Map (Source: HPOWeb, November 2018)**



**#1 Bridge No. 1: Google StreetView**

**FINDING BY NCDOT ARCHITECTURAL HISTORIAN**

Historic Architecture and Landscapes -- NO SURVEY REQUIRED

**Mary Pope Furr**

**11/5//2018**

NCDOT Architectural Historian

Date

# Tribal Coordination

## [External] RE: NCDOT Projects BR-0060, BR-0069, &amp; BR-0097 - Project Study Letters

Kaleigh Pollak &lt;Kaleigh@monacannation.com&gt;

Mon 8/9/2021 4:55 PM

To: Peterson, Tierre R &lt;trpeterson@ncdot.gov&gt;

Cc: Tribal Office &lt;TribalOffice@monacannation.com&gt;

**CAUTION:** External email. Do not click links or open attachments unless you verify. Send all suspicious email as an attachment to [Report Spam](#).

Good Afternoon,

Thank you for contacting us regarding the proposed projects.

The Monacan Indian Nation is a federally recognized sovereign tribe, headquartered on Bear Mountain in Amherst County. Citizens of the Nation are descended from Virginia and North Carolina Eastern Siouan cultural and linguistic groups, and our ancestral territory includes Virginia west of the fall line of the rivers, sections of southeastern West Virginia, and portions of northern North Carolina. At this time, the active Monacan consultation areas include:

**Virginia:** Albemarle, Alleghany, Amherst, Appomattox, Augusta, Bath, Bedford, Bland, Buchanan, Buckingham, Campbell, Carroll, Charlotte, Clarke, Craig, Culpepper, Cumberland, Dickenson, Floyd, Fluvanna, Franklin, Frederick, Giles, Goochland, Grayson, Greene, Halifax, Henry, Highland, Lee, Loudoun, Louisa, Madison, Mecklenburg, Montgomery, Nelson, Orange, Page, Patrick, Pittsylvania, Powhatan, Prince Edward, Pulaski, Rappahannock, Roanoke, Rockbridge, Rockingham, Russell, Scott, Shenandoah, Smyth, Tazewell, Warren, Washington, Wise, and Wythe Counties, and all contiguous cities.

**West Virginia:** Greenbrier, Mercer, Monroe, Pendleton, Pocahontas, and Summers Counties.

**North Carolina:** Alamance, Caswell, Granville, Orange, Person, Rockingham, Vance, and Warren Counties.

At this time, the Nation does not wish to actively participate in this consultation project, because:

	This project is outside our ancestral territory
X	The project's impacts are anticipated to be minimal
	The project is more closely related to _____, which should be contacted to participate in consultation
	The tribal office does not currently have the capacity to participate in this project
	Other:

However, the Nation requests to be contacted if:

- Sites associated with native history may be impacted by this project;
- Adverse effects associated with this project are identified;
- Human remains are encountered during this project;
- Unanticipated native cultural remains are encountered during this project;
- Other tribes consulting on this project cease consultation; or
- The project size or scope becomes larger or more potentially destructive than currently described.

Please do not make any assumptions about future consultation interests based on this decision, as priorities and information may change. We request that you send any future consultation communications in electronic form to [Kaleigh@MonacanNation.com](mailto:Kaleigh@MonacanNation.com). We appreciate your outreach to the Monacan Indian Nation and look forward to working with you in the future.

Thank you,

Kaleigh Pollak  
**Program Manager**  
Monacan Indian Nation  
O: (434) 363-4864  
C: (434) 473-1029  
111 Highview Drive  
Madison Heights, VA 24572



#### NOTICE OF CONFIDENTIALITY

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**From:** Tribal Office <TribalOffice@monacannation.com>  
**Sent:** Friday, August 6, 2021 12:57 PM  
**To:** Kaleigh Pollak <Kaleigh@monacannation.com>  
**Subject:** FW: NCDOT Projects BR-0060, BR-0069, & BR-0097 - Project Study Letters

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**From:** Peterson, Tierre R <[trpeterson@ncdot.gov](mailto:trpeterson@ncdot.gov)>  
**Sent:** Friday, August 6, 2021 12:52 PM  
**To:** Tribal Office <[TribalOffice@monacannation.com](mailto:TribalOffice@monacannation.com)>  
**Cc:** Bowles, Jacquelyn K <[jkbowles@ncdot.gov](mailto:jkbowles@ncdot.gov)>; Stutts, David S <[dstutts@ncdot.gov](mailto:dstutts@ncdot.gov)>; Demery, Dustin A <[dademery@ncdot.gov](mailto:dademery@ncdot.gov)>; Welch, Annie <[awelch@moffattnichol.com](mailto:awelch@moffattnichol.com)>; Wilkerson, Matt T <[mtwilkerson@ncdot.gov](mailto:mtwilkerson@ncdot.gov)>; [omojojadavwe.morales@ncdot.gov](mailto:omojojadavwe.morales@ncdot.gov)  
**Subject:** NCDOT Projects BR-0060, BR-0069, & BR-0097 - Project Study Letters

Ms. Kaleigh Pollak,

Please see the attached project study letter for NCDOT Projects BR-0060, BR-0069, and BR-0097  
If you have any questions or comments, please let us know by September 6, 2021.

Sincerely,

**Tierre Peterson, PE**  
Team Leader - PEF Coordination  
Structures Management Unit

919 707 6488 office  
[trpeterson@ncdot.gov](mailto:trpeterson@ncdot.gov)

1000 Birch Ridge Drive  
Raleigh, NC 27610



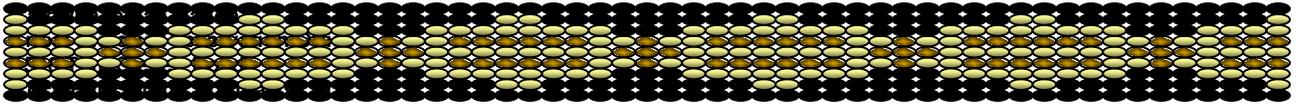
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Email correspondence to and from this sender is subject to the N.C. Public Records Law and may be disclosed to third parties.



Office 803-328-2427  
Fax 803-328-5791

September 10, 2021

Attention: David Stutts  
NC Department of Transportation  
1581 Mail Service Center  
Raleigh, NC 27699

Re. THPO #	TCNS #	Project Description
2021-193-165		BR-0060, BR-0069 and BR-0097

Dear Mr. Stutts,

The Catawba have no immediate concerns with regard to traditional cultural properties, sacred sites or Native American archaeological sites within the boundaries of the proposed project areas. **However, the Catawba are to be notified if Native American artifacts and / or human remains are located during the ground disturbance phase of this project.**

If you have questions please contact Caitlin Rogers at 803-328-2427 ext. 226, or e-mail [Caitlin.Rogers@catawba.com](mailto:Caitlin.Rogers@catawba.com).

Sincerely,

Wenonah G. Haire  
Tribal Historic Preservation Officer

# NEPA/SEPA Document

## Type I or II Categorical Exclusion Action Classification Form

TIP Project No.	<b>BR-0069</b>
WBS Element	67069.1.1
Federal Project No.	N/A

### A. Project Description:

The proposed project involves replacing Bridge No. 160001 on U.S. 158/N.C. 86 over Country Line Creek in Caswell County in the Town of Yanceyville. Bartlett Yancey High School is located west of the bridge, along with various commercial developments. The North Carolina Wildlife Resources Commission owns large tracts of land to the south and east of the bridge. The Caswell Shooting Range is located within that property. The proposed project length is 0.220 miles, and the proposed Bridge Length is 0.047 miles. The roadway width is 24', with two 12' lanes. Total shoulder width is 8', with 4' paved and 4' turfed. The proposed bridge clear roadway is 44', with two 12' lanes and 10' shoulders. Side slopes are NCDOT Arterial Design Side Slopes (ADSS) due to an Average Daily Traffic (ADT) greater than 2000.

Current 2023 ADT is 8,525, and projected future ADT in 2043 is 10,025. There are 10% trucks, with Tractor Trailer Semi Trucks (TTST) at 6%, and Dual Axle Trucks at 4%. Design Speed V is 60 mph.

Functional Classification is listed as "Rural Arterial – Regional Tier"

No anticipated design exceptions

### B. Description of Need and Purpose:

The purpose of the proposed project is to remove a structurally deficient bridge. NCDOT Bridge Management Unit records indicate Bridge No. 160001 was built in 1970 and is considered structurally deficient due to a 2022 superstructure condition appraisal of 4 out of 9 according to Federal Highway Administration standards. This bridge has priority maintenance for slope protection on both ends, and structural issues at bent No. 3.

### C. Categorical Exclusion Action Classification:

**Type I(A) - Ground Disturbing Action**

### D. Proposed Improvements:

28. Bridge rehabilitation, reconstruction, or replacement or the construction of grade separation to replace existing at-grade railroad crossings, if the actions meet the constraints in 23 CFR 771.117(e)(1-6).

### E. Special Project Information:

#### Costs:

Type	Costs 2022
Construction	\$6,900,000
Right-of-Way	\$118,700
Utilities	\$56,278
<b>Total</b>	<b>\$7,074,978</b>

**Alternative analysis (if any):**

## Alternatives Evaluation:

Alternative 1 was chosen for this project, placing the on-site detour North of the proposed alignment. There is a small area of wetlands on the south side. Additionally, providing a detour on the north side results in significantly better detour roadway horizontal geometry.

No Build – The no build alternative would result in eventually closing the road, which is unacceptable given the volume of traffic served by U.S. 158/N.C. 86.

Rehabilitation – The existing bridge was constructed in 1970 and is reaching the end of its useful life. Rehabilitation would only provide a temporary solution to the structural deficiency of the bridge.

Offsite Detour - This is a US/NC route and an offsite detour route would need to provide similar lane and shoulder widths, and there is no suitable offsite detour available in this area.

**Public Involvement:**

A project newsletter was sent on 07/05/2022 to 51 adjacent or nearby affected property owners on this project. Property owners were invited to comment. No comments have been received to date.

Tribal Outreach was made to the Catawba and Monacan Tribal Nations during the planning process. A response was received from the Catawba Nation stating, *“The Catawba have no immediate concerns with regard to traditional cultural properties, sacred sites or Native American archaeological sites within the boundaries of the proposed project areas. However, the Catawba are to be notified if Native American artifacts and / or human remains are located during the ground disturbance phase of this project.”* We received no response from the Monacan Nation.

**Natural Resources:**

A biological conclusion of “May Affect, Not Likely to Adversely Affect” was determined for the James spinymussel, the Roanoke logperch, and the Atlantic pigtoe, the three federally listed species within the BR-0069 project study area per USFWS IPaC database and NOAA NMFS. An aquatic Species Survey Report was prepared in February 2022. USFWS coordination regarding the requirements of Section 7 (a)(2) was completed in February 2022.

Tricolored Bat – Since the completion of the NRTR, the tricolored bat (*Perimyotis subflavus*) has been added as “Proposed Endangered” to the list of protected species for this project. NCDOT will ensure compliance with the Endangered Species Act for tricolored bat (and all protected species) for the project.

**Bicycle and Pedestrian**

A response letter from the Integrated Mobility Division in August of 2021 noted, “A P6.0 Complete Streets Project Sheet was submitted with this review request and indicated that no facilities for pedestrians, bicycles, or public transportation will be evaluated because there are no existing or planned facilities in the project study area. Bridges are typically built as long-term investments. Future transportation modal and land use should be considered when designed as it can be difficult to add additional facilities after initial construction. Bridges should be designed to accommodate all foreseeable users based on current and anticipated needs. The current AADT of US 158/NC 86 in the project area is 7,300 vehicles per day and the speed limit is 55 mph. Based on the FHWA Bikeway Selection Guide, an **8’ paved shoulder should be considered** in the event of future planned bicycle facilities along US 158/NC 86. There is not expected to be a significant amount of pedestrian traffic along this section of US 158/NC 86 so pedestrian facilities are not required.”

F. Project Impact Criteria Checklists:

<b>F2. Ground Disturbing Actions – Type I (Appendix A) &amp; Type II (Appendix B)</b>				
<p>Proposed improvement(s) that fit Type I Actions (NCDOT-FHWA CE Programmatic Agreement, Appendix A) including 2, 3, 6, 7, 9, 12, 18, 21, 22 (ground disturbing), 23, 24, 25, 26, 27, 28, &amp;/or 30; &amp;/or Type II Actions (NCDOT-FHWA CE Programmatic Agreement, Appendix B) answer the project impact threshold questions (below) and questions 8 – 31.</p> <ul style="list-style-type: none"> <li>• <i>If any question 1-7 is checked “Yes” then NCDOT certification for FHWA approval is required.</i></li> <li>• <i>If any question 8-31 is checked “Yes” then additional information will be required for those questions in Section G.</i></li> </ul>				
<u>PROJECT IMPACT THRESHOLDS</u> (FHWA signature required if any of the questions 1-7 are marked “Yes”.)			Yes	No
1	Does the project require formal consultation with U.S. Fish and Wildlife Service (USFWS) or National Marine Fisheries Service (NMFS)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2	Does the project result in impacts subject to the conditions of the Bald and Golden Eagle Protection Act (BGEPA)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3	Does the project generate substantial controversy or public opposition, for any reason, following appropriate public involvement?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4	Does the project cause disproportionately high and adverse impacts relative to low-income and/or minority populations?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5	Does the project involve a residential or commercial displacement, or a substantial amount of right of way acquisition?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6	Does the project require an Individual Section 4(f) approval?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
7	Does the project include adverse effects that cannot be resolved with a Memorandum of Agreement (MOA) under Section 106 of the National Historic Preservation Act (NHPA) or have an adverse effect on a National Historic Landmark (NHL)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If any question 8-31 is checked “Yes” then additional information will be required for those questions in Section G.				
<u>Other Considerations</u>			Yes	No
8	Is an Endangered Species Act (ESA) determination unresolved or is the project covered by a Programmatic Agreement under Section 7?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
9	Is the project located in anadromous fish spawning waters?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
10	Does the project impact waters classified as Outstanding Resource Water (ORW), High Quality Water (HQW), Water Supply Watershed Critical Areas, 303(d) listed impaired water bodies, buffer rules, or Submerged Aquatic Vegetation (SAV)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
11	Does the project impact Waters of the United States in any of the designated mountain trout streams?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
12	Does the project require a U.S. Army Corps of Engineers (USACE) Individual Section 404 Permit?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

13	Will the project require an easement from a Federal Energy Regulatory Commission (FERC) licensed facility?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<u>Other Considerations for Type I and II Ground Disturbing Actions (continued)</u>		Yes	No
14	Does the project include a Section 106 of the National Historic Preservation Act (NHPA) effects determination other than a No Effect, including archaeological remains?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
15	Does the project involve GeoEnvironmental Sites of Concerns such as gas stations, dry cleaners, landfills, etc.?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
16	Does the project require work encroaching and adversely affecting a regulatory floodway or work affecting the base floodplain (100-year flood) elevations of a water course or lake, pursuant to Executive Order 11988 and 23 CFR 650 subpart A?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
17	Is the project in a Coastal Area Management Act (CAMA) county and substantially affects the coastal zone and/or any Area of Environmental Concern (AEC)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
18	Does the project require a U.S. Coast Guard (USCG) permit?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
19	Does the project involve construction activities in, across, or adjacent to a designated Wild and Scenic River present within the project area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
20	Does the project involve Coastal Barrier Resources Act (CBRA) resources?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
21	Does the project impact federal lands (e.g. U.S. Forest Service (USFS), USFWS, etc.) or Tribal Lands?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
22	Does the project involve any changes in access control or the modification or construction of an interchange on an interstate?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
23	Does the project have a permanent adverse effect on local traffic patterns or community cohesiveness?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
24	Will maintenance of traffic cause substantial disruption?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
25	Is the project inconsistent with the STIP, and where applicable, the Metropolitan Planning Organization's (MPO's) Transportation Improvement Program (TIP)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
26	Does the project require the acquisition of lands under the protection of Section 6(f) of the Land and Water Conservation Act, the Federal Aid in Fish Restoration Act, the Federal Aid in Wildlife Restoration Act, Tennessee Valley Authority (TVA), Tribal Lands, or other unique areas or special lands that were acquired in fee or easement with public-use money and have deed restrictions or covenants on the property?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
27	Does the project involve Federal Emergency Management Agency (FEMA) buyout properties under the Hazard Mitigation Grant Program (HMGP)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
28	Does the project include a <i>de minimis</i> or programmatic Section 4(f)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
29	Is the project considered a Type I under the NCDOT Noise Policy?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
30	Is there prime or important farmland soil impacted by this project as defined by the Farmland Protection Policy Act (FPPA)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
31	Are there other issues that arose during the project development process that affected the project decision?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

G. Additional Documentation as Required from Section F (ONLY for questions marked 'Yes'):

**Response to Question 1 - Does the project require formal consultation with U.S. Fish and Wildlife Service (USFWS) or National Marine Fisheries Service (NMFS)?**

Completed - A biological conclusion of "May Affect, Not Likely to Adversely Affect" was determined for the James spiny mussel, the Roanoke logperch, and the Atlantic pigtoe, the three federally listed species within the BR-0069 project study area per USFWS IPaC database and NOAA NMFS. An aquatic Species Survey Report was prepared in February 2022. USFWS coordination regarding the requirements of Section 7 (a)(2) was completed in February 2022.

Since the completion of the NRTR, the tricolored bat (*Perimyotis subflavus*) has been added as "Proposed Endangered" to the list of protected species for this project. NCDOT will ensure compliance with the Endangered Species Act for tricolored bat (and all protected species) for the project. Concurrence for this species will be resolved prior to permitting.

**Response to Question 16 - Floodplain:**

This project involves construction activities on or adjacent to FEMA-regulated stream(s). Therefore, the Division shall submit sealed as-built construction plans to the Hydraulics Unit upon completion of project construction, certifying that the drainage structure(s) and roadway embankment that are located within the 100-year floodplain were built as shown in the construction plans, both horizontally and vertically.

The NCDOT Hydraulics Unit will coordinate with the NC Floodplain Mapping Program (FMP), to determine status of the project with regard to applicability of NCDOT'S Memorandum of Agreement, or approval of a Conditional Letter of Map Revision (CLOMR) and subsequent final Letter of Map Revision (LOMR).

H. Project Commitments:

## **NCDOT PROJECT COMMITMENTS**

TIP Project No. **BR-0069**  
Replacing Bridge No. 160001 on U.S. 158/N.C. 86 over Country Line Creek,  
in Caswell County  
Federal Aid Project No. N/A  
WBS Element 67069.1.1

### **ESA federally protected species within the Study Area**

Completed - A biological conclusion of "May Affect, Not Likely to Adversely Affect" was determined for the James spiny mussel, the Roanoke logperch, and the Atlantic pigtoe, the three federally listed species within the BR-0069 project study area per USFWS IPaC database and NOAA NMFS. An aquatic Species Survey Report was prepared in February 2022. USFWS coordination regarding the requirements of Section 7 (a)(2) was completed in February 2022.

### **FEMA Floodplains and Floodways (Division 7 Construction, NCDOT SMU)**

This project involves construction activities on or adjacent to FEMA-regulated stream(s). Therefore, the Division shall submit sealed as-built construction plans to the Hydraulics Unit upon completion of project construction, certifying that the drainage structure(s) and roadway embankment that are located within the 100-year floodplain were built as shown in the construction plans, both horizontally and vertically.

### **Floodplain Mapping Coordination (NCDOT Hydraulic Design Unit)**

The Hydraulics Unit will coordinate with the NC Floodplain Mapping Program (FMP), to determine status of project with regard to applicability of NCDOT'S Memorandum of Agreement, or approval of a Conditional Letter of Map Revision (CLOMR) and subsequent final Letter of Map Revision (LOMR)

I. Categorical Exclusion Approval:

TIP Project No.	<u>BR-0069</u>
WBS Element	<u>67069.1.1</u>
Federal Project No.	<u>N/A</u>

**Prepared By:**

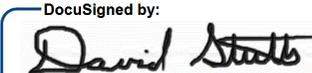
<u>3/13/2023</u>	
Date	<u>Marc L Hamel</u> M&N Project Manager

**Prepared For:** Jacquelyn Bowles, PE, Engineer III, NCDOT Structures Management Unit

**Reviewed By:**

<u>3/13/2023</u>	
Date	<u>John Jamison, Western Regional Team Lead Policy Unit</u> NCDOT Environmental Policy Unit

- Approved**
  - If NO grey boxes are checked in Section F (pages 2 and 3), NCDOT approves the Type I or Type II Categorical Exclusion.
- Certified**
  - If ANY grey boxes are checked in Section F (pages 2 and 3), NCDOT certifies the Type I or Type II Categorical Exclusion for FHWA approval.
  - If classified as Type III Categorical Exclusion.

<u>3/13/2023</u>	
Date	<u>David Stutts, PE – PEF / Program Manager, SMU</u> North Carolina Department of Transportation

FHWA Approved: For Projects Certified by NCDOT (above), FHWA signature required.

N/A

---

Date for John F. Sullivan, III, PE, Division Administrator  
Federal Highway Administration

*Note: Prior to ROW or Construction authorization, a consultation may be required (please see Section VII of the NCDOT-FHWA CE Programmatic Agreement for more details).*

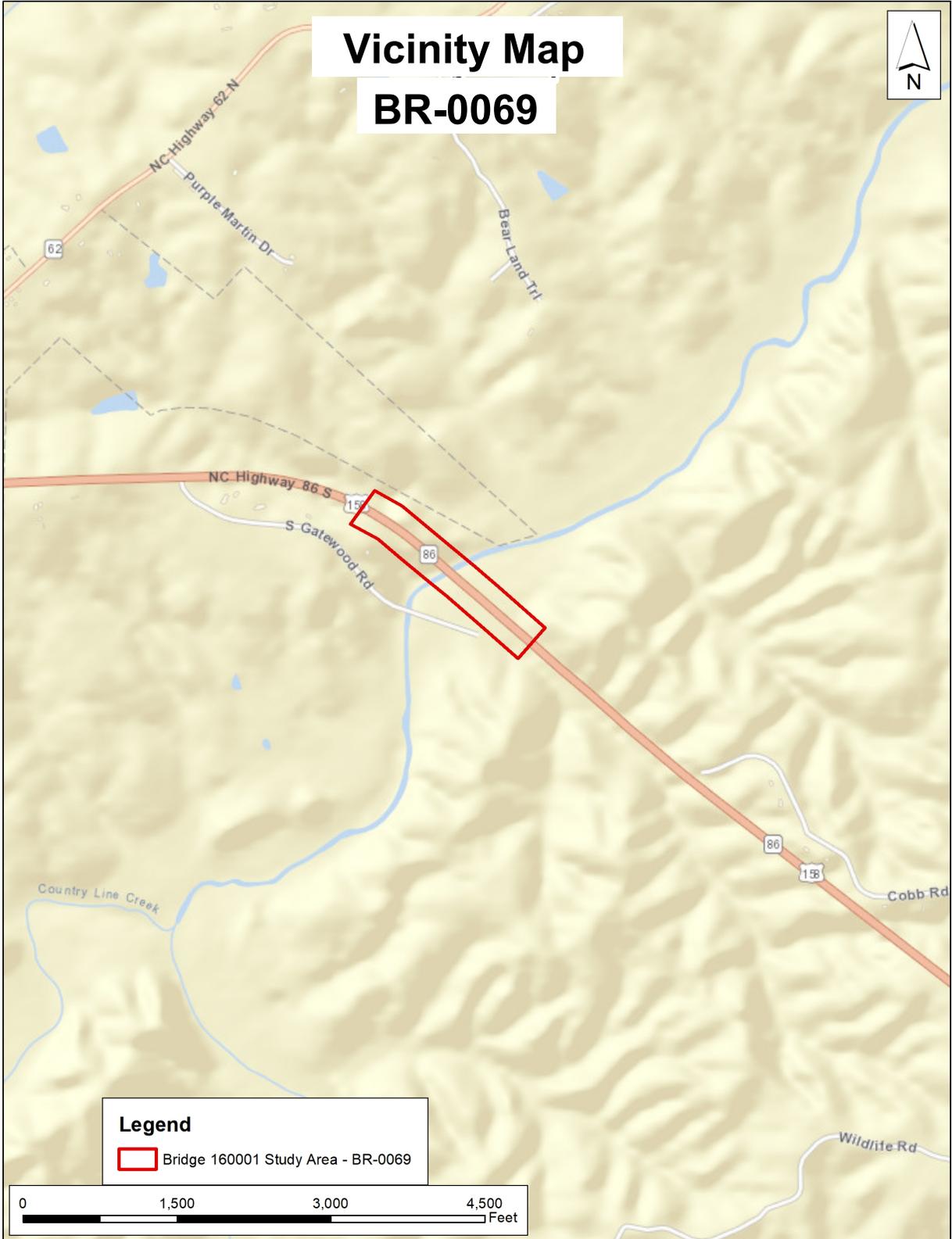


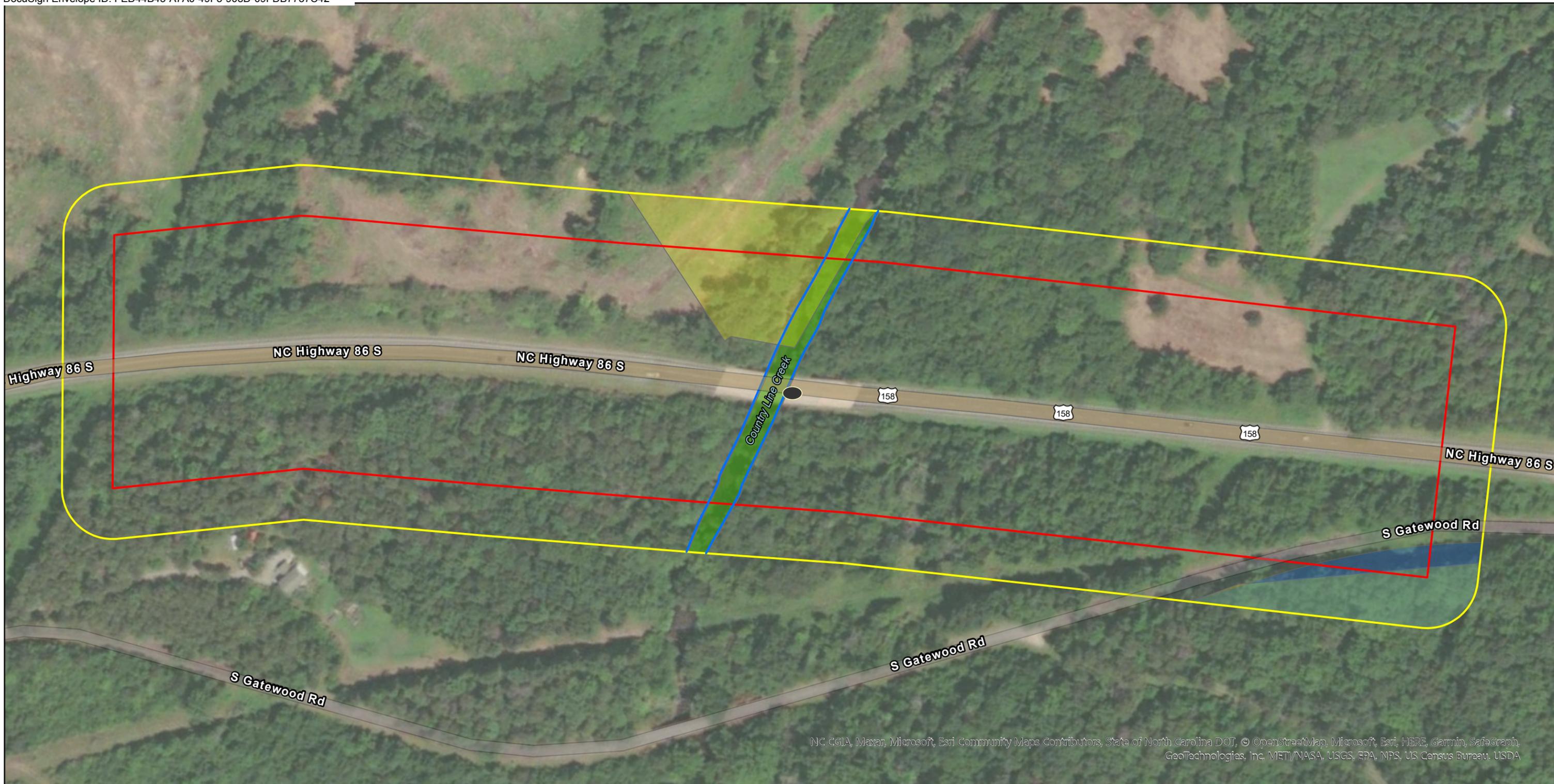
Figure 1: Vicinity Map



Figure 2: Project Study Area Map



Figure 3: Jurisdictional Features Present Map



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Figure 4: NC ATLAS Screening Map

- ATLAS Screening Area
- BR-0069 Study Area
- Bat Bridge Habitat: High Probability
- Water Classifications \*See Note 1
- Land Classifications \*See Note 2
- NC Natural Heritage Natural Areas
- Representational Rating, Collective Rating
- R2 (Very High), C3 (High)
- R2 (Very High), C4 (Moderate)

Note 1, All items with this symbology have the following characteristics:  
 NC Surface Water Quality Classification C: Waters protected for uses such as aquatic life propagation, survival and maintenance of biological integrity (including fishin and fish), wildlife, secondary contact recreation, and agriculture. Secondary contact recreation means wading, boating, other uses not involving human body contact with water, and activities involving human body contact with water where such activities take place on an infrequent, unorganized, or incidental basis.  
 IR Categories:  
 4t - Fish Tissue Mercury (Nar, FC, NC), Exceeding Criteria, 2008  
 1 - Benthos Excellent (Nar, AL, FW), Meeting Criteria

Note 2, All items with this symbology have the following characteristics:  
 USGS Protected Areas - NC Wildlife Resource Commission, Caswell Game Land  
 NC Natural Heritage Program Managed Area - Managed for Biodiversity, Disturbance Events Suppressed

Complete Study Area:  
 ATLAS IPaC Ranges: Roanoke Logperch, Endangered Atlantic Pigtoe, Proposed Threatened Tricolored Bat, Proposed Endangered NC Jordan Lake Watershed Boundary  
 NC DEQ Major Basin: Roanoke





## ARCHAEOLOGICAL SURVEY REQUIRED FORM

This form only pertains to ARCHAEOLOGICAL RESOURCES for this project. It is not valid for Historic Architecture and Landscapes. You must consult separately with the Historic Architecture and Landscapes Group.



### PROJECT INFORMATION

Project No: **BR-0069** County: **Caswell**  
 WBS No: **67069.1.1** Document: **MCC**  
 F.A. No: **na** Funding:  State  Federal  
 Federal Permit Required?  Yes  No Permit Type: **?**

**Project Description:** The North Carolina Department of Transportation (NCDOT) intends to replace Bridge No. 1 on US 158/NC 86 over Country Line Creek east of Yanceyville. No preliminary designs were available at the time of the cultural resources review, but a study area was submitted with the request. This study area generally consists of a corridor roughly 200 feet long and 400 feet wide. For the purposes of the archaeological review, this study area will be considered to be the area of potential effects (APE). Thus, the APE for the proposed project is estimated to encompass 18.3 acres (nearly 7.41 hectares).

### SUMMARY OF ARCHAEOLOGICAL RESOURCES REVIEW: ***SURVEY REQUIRED***

***Brief description of review activities, results of review, and conclusions:***

The review of the site maps and files archived at the North Carolina Office of State Archaeology (OSA) was conducted on September 20, 2018. No previously identified archaeological sites are recorded within the APE as currently proposed, nor have any sites been recorded within a .5-radius of the current APE. An examination of the data presented on the North Carolina State Historic Preservation Office HPOWEB GIS Service (<http://gis.ncdcr.gov/hpoweb/>) reveals no recorded historic properties within the same radius, nor are any known cemeteries in the vicinity.

An examination of soils in Caswell County presented on the National Resources Conservation Service Web Soil Survey (<http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>) indicates the following soil types fall within the delineated APE: Codorus loam, 0 to 2 percent slopes, frequently flooded (CsA); Fairview sandy clay loam, 8 to 15 percent slopes, moderately eroded (FbC2); Rhodhiss sandy loam, 8 to 15 percent slopes (RhC); Rhodhiss sandy loam, 25 to 45 percent slopes (RhE); and Spriggs-Mocksville complex, 25 to 45 percent slopes (SkE).

While portions of the proposed study area clearly are significantly sloped or are subject to flooding, there are a number of landforms that may exhibit a higher potential for historic or prehistoric occupation. A reconnaissance investigation of the APE to determine areas where subsurface testing is appropriate, followed by that additional investigation is recommended.

### SUPPORT DOCUMENTATION

See attached:  Map(s)  Previous Survey Info  Photos  Correspondence  
 Other: soil map.

**18-04-0007**

**FINDING BY NCDOT ARCHAEOLOGIST – *SURVEY REQUIRED***



NCDOT ARCHAEOLOGIST

October 10, 2018

Date



**18-09-0045*****Brief description of review activities, results of review, and conclusions:***

On October 10, 2018, NCDOT archaeologist, Shane Petersen, recommended further archaeological investigation of the proposed APE based on topographic and soil mapping that suggested the possibility for microenvironmental conditions suitable for the preservation of archaeological deposits in some portions of the project area. An archaeological reconnaissance survey was recommended that would visually inspect all portions of the APE to determine which areas might retain a higher probability for archaeological site location. Those areas were then to be subjected to intensive subsurface investigation.

Prior to initiating the archaeological field investigations, researchers with Johnson, Mirmiran, and Thompson, Inc. (JMT), conducted background archaeological research at the North Carolina Office of State Archaeology in Raleigh (OSA). According to the records at OSA one archaeological site, 31CS68, a prehistoric site that was not considered to be eligible for inclusion on the National Register of Historic Places (NRHP), was located within a 1-mile radius of the proposed project.

The archaeological Survey for Bridge No. 1 in Caswell County was undertaken as part of a series of investigations undertaken by archaeologists with JMT from May 24 – June 1, 2019. Shovel tests were excavated at intervals of 30 meters. Areas that exhibited disturbance, severe slope, inundation, or were marked during wetland delineations were not shovel tested. A significant portion of the APEs were not excavated due to steeply sloped landforms, areas of severe erosion and soil deflation, residential development, and low-lying wet areas. All areas not subjected to subsurface testing were visually inspected and pedestrian surveyed.

The following description of the results of the archaeological survey have been adapted from JMT's archaeological report (Minford 2019), which is on file with the Environmental Analysis Unit at NCDOT.

The study area for Bridge No. 1 measures 610m in length and 122m wide along US 158/NC 86 over Country Line Creek. A total of 27 shovel test locations were investigated, of which, all were negative. Portions of the APE were not shovel tested due predominately to severe slope or low-lying wet areas. A large portion of the APE contained either severe slope (approximately 3 acres) or was low lying and wet (approximately 6 acres). The remains of a cinder block structure were noted in the northeastern quadrant of the APE. A judgmental shovel test was excavated in this area but was designated 'negative' for archaeological deposits as a result of nothing more than modern trash recovered within the first stratum. This structure is interpreted as modern in nature. Soils observed within the western portion of the APE were shallow and eroded due to severe slope. Soils recorded in the eastern portion of the APE were deeper but contained hydric soils. A typical soil profile within the latter portion of the APE is:

Stratum I (0 – 40 cm): 10YR 4/3 brown sandy loam  
Stratum II (40 - 50 cm): 10YR 4/3 brown hydric sand

No archaeological sites were identified within the APE, and no further work is recommended for this area as currently designed.

**References Cited:**

Minford, L. and C. Herrnstadt

2019 *Phase I Archaeological Survey, Proposed Replacement of Bridge Nos. 1, 7, & 61 in Caswell County; and Bridge Nos. 35, 170, 176, 178, & 183 in Rockingham County*. Ms. on file, Environmental Analysis Unit, North Carolina Department of Transportation, Raleigh.

18-09-0045



## HISTORIC ARCHITECTURE AND LANDSCAPES NO SURVEY REQUIRED FORM

This form only pertains to Historic Architecture and Landscapes for this project. It is not valid for Archaeological Resources. You must consult separately with the Archaeology Group.

### PROJECT INFORMATION

<b>Project No.:</b>	BR-0069	<b>County:</b>	Caswell
<b>WBS No.:</b>	67069.1.1	<b>Document Type:</b>	MCC
<b>Fed. Aid No.:</b>		<b>Funding:</b>	<input checked="" type="checkbox"/> State <input type="checkbox"/> Federal
<b>Federal Permit(s):</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<b>Permit Type(s):</b>	USACE

#### **Project Description:**

Replace Bridge No. 1 on US 158/NC 86 over County Line Creek near Yanceyville. No preliminary designs were available at the time of the cultural resources review, but a study area was submitted with the request. This study area generally consists of a corridor roughly 200 feet long and 400 feet wide. For the purposes of the archaeological review, this study area will be considered to be the area of potential effects (APE).

### SUMMARY OF HISTORIC ARCHITECTURE AND LANDSCAPES REVIEW

#### **Description of review activities, results, and conclusions:**

Review of project area on HPOWeb GIS was conducted in November 2018. There are no existing NR, SL, DE, LD or SS properties in the project area. Constructed in 1970, Bridge No.1 does not meet the NR criteria consideration for exceptional importance for properties less than 50 years of age. There do not appear to be any significant historic architectural resources within the project area, therefore no further survey is required.

#### **Why the available information provides a reliable basis for reasonably predicting that there are no unidentified significant historic architectural or landscape resources in the project area:**

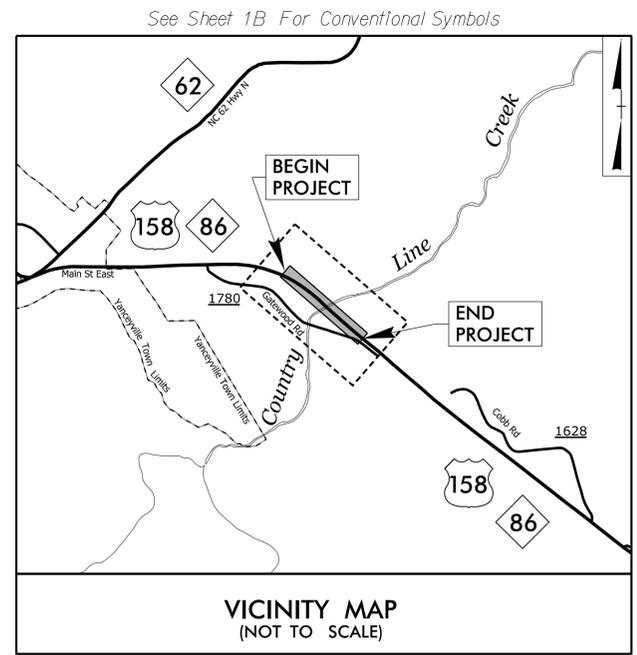
HPO GIS data, Google StreetView and Caswell County property records are considered valid tools for the purposes of determining the likelihood of historic resources.

### SUPPORT DOCUMENTATION

Map(s)    Previous Survey Info.    Photos    Correspondence    Design Plans

09\_08/2019

**TIP PROJECT: BR-0069**



STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

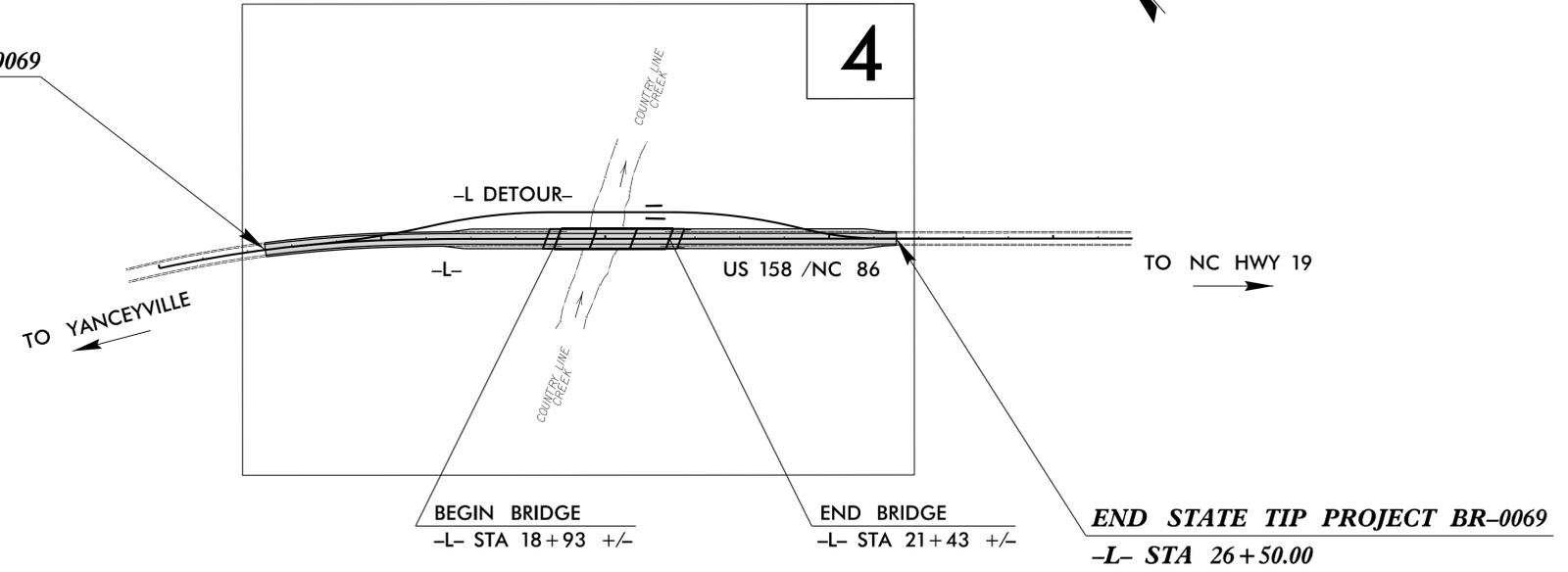
**CASWELL COUNTY**

**LOCATION: BRIDGE NO. 160001 OVER COUNTRY LINE CREEK ON  
US 158 / NC 86**  
**TYPE OF WORK: PAVING, GRADING, DRAINAGE, AND STRUCTURES**

**FIELD INSPECTION PLANS**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	<b>BR-0069</b>	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
67069.1.1	N/A	PE	

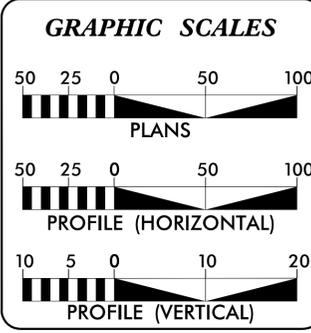
**BEGIN STATE TIP PROJECT BR-0069**  
**-L- STA 12+40.00**



THIS IS A PARTIAL CONTROLLED ACCESS PROJECT WITH ACCESS BEING LIMITED TO POINTS SHOWN ON THE PLANS.  
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD     

**INCOMPLETE PLANS**  
DO NOT USE FOR R/W ACQUISITION  
**DOCUMENT NOT CONSIDERED FINAL**  
UNLESS ALL SIGNATURES COMPLETED

**CONTRACT:**



**DESIGN DATA**

ADT 2023 =	8,525
ADT 2043 =	10,025
K =	TBD %
D =	TBD %
T =	10 % *
V =	60 MPH
* TTST =	6% DUAL 4%
FUNC CLASS =	PRINCIPAL RURAL ARTERIAL
	-REGIONAL TIER

**PROJECT LENGTH**

LENGTH ROADWAY TIP PROJECT BR-0069	=	0.220
LENGTH STRUCTURE TIP PROJECT BR-0069	=	0.047
TOTAL LENGTH TIP PROJECT BR-0069	=	0.267

Prepared for NCDOT in the Office of:

**moffatt & nichol**  
4700 FALLS OF NEUSE ROAD, SUITE 300  
RALEIGH, NORTH CAROLINA 27609  
(919) 781-4626 VOICE (919) 781-4869 FAX  
NC License NO.: F-0105

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**2018 STANDARD SPECIFICATIONS**

**RIGHT OF WAY DATE:**  
OCTOBER 19, 2022

**LETTING DATE:**  
OCTOBER 17, 2023

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**TRENT HUFFMAN, P.E.**  
PROJECT ENGINEER

---

**GRAY MODLIN, P.E.**  
PROJECT DESIGN ENGINEER

---

**DAVID STUTTS, P.E.**  
NCDOT CONTACT

**HYDRAULICS ENGINEER**

**moffatt & nichol**

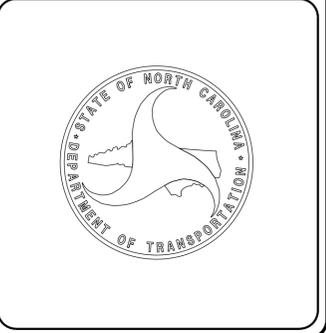
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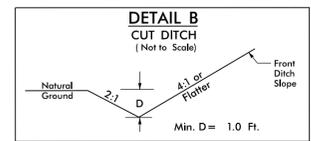
**ROADWAY DESIGN ENGINEER**

**moffatt & nichol**

SIGNATURE: \_\_\_\_\_ P.E.

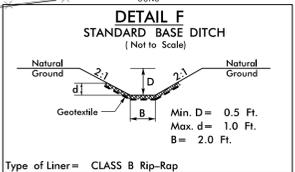
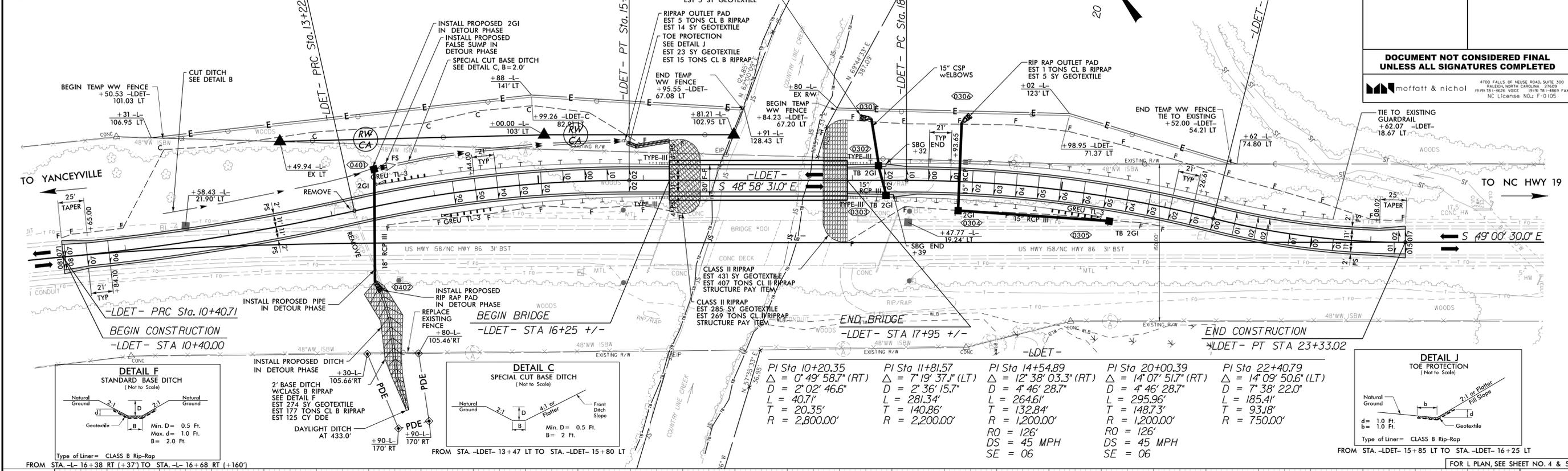


8/17/19

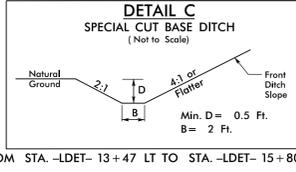


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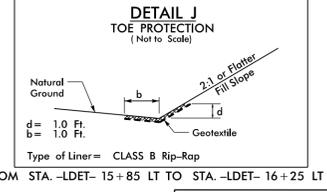
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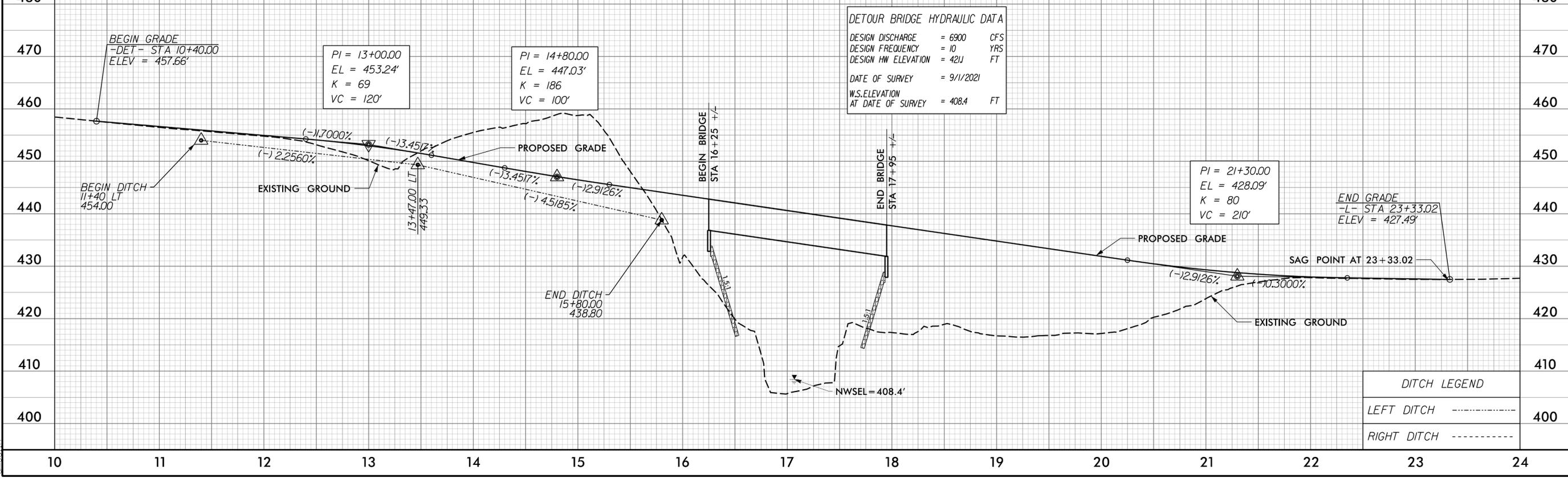
FROM STA. -LDET- 13+47 LT TO STA. -LDET- 15+80 LT



FROM STA. -LDET- 15+85 LT TO STA. -LDET- 16+25 LT

Station	Delta	D	L	T	R	RO	DS	SE
PI Sta 10+20.35	$\Delta = 0' 49' 58.7''$ (RT)	$D = 2' 02' 46.6''$	$L = 40.71'$	$T = 20.35'$	$R = 2,800.00'$			
PI Sta 11+81.57	$\Delta = 7' 19' 37.1''$ (LT)	$D = 2' 36' 15.7''$	$L = 281.34'$	$T = 140.86'$	$R = 2,200.00'$			
PI Sta 14+54.89	$\Delta = 12' 38' 03.3''$ (RT)	$D = 4' 46' 28.7''$	$L = 264.61'$	$T = 132.84'$	$R = 1,200.00'$	$RO = 126'$	$DS = 45$ MPH	$SE = 06$
PI Sta 20+00.39	$\Delta = 14' 07' 51.7''$ (RT)	$D = 4' 46' 28.7''$	$L = 295.96'$	$T = 148.73'$	$R = 1,200.00'$	$RO = 126'$	$DS = 45$ MPH	$SE = 06$
PI Sta 22+40.79	$\Delta = 14' 09' 50.6''$ (LT)	$D = 7' 38' 22.0''$	$L = 185.41'$	$T = 93.18'$	$R = 750.00'$			

# -LDET-



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DESIGN FREQUENCY	= 10	YRS
DESIGN HW ELEVATION	= 421	FT
DATE OF SURVEY	= 9/1/2021	
W.S.ELEVATION AT DATE OF SURVEY	= 408.4	FT

LEFT DITCH	-----	400
RIGHT DITCH	-----	

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8/17/99

PROJECT REFERENCE NO. BR-0069		SHEET NO. 4	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION			
<b>DOCUMENT NOT CONSIDERED FINAL</b> UNLESS ALL SIGNATURES COMPLETED			
moffatt & nichol		4700 FALLS OF NEUSE ROAD, SUITE 300 RALEIGH, NORTH CAROLINA 27609 (919) 781-4626 VOICE (919) 781-4869 FAX NC License No. F-0105	

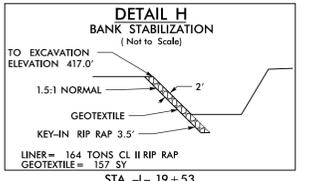
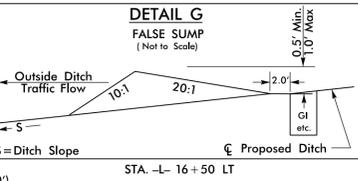
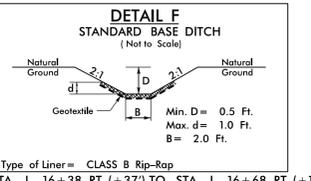
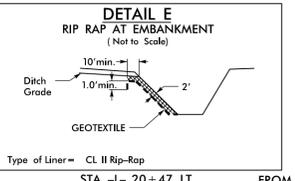
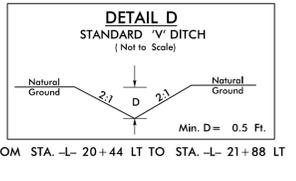
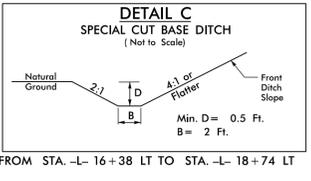
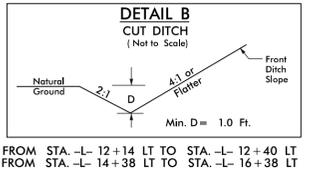
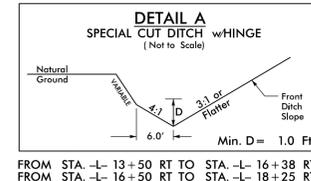
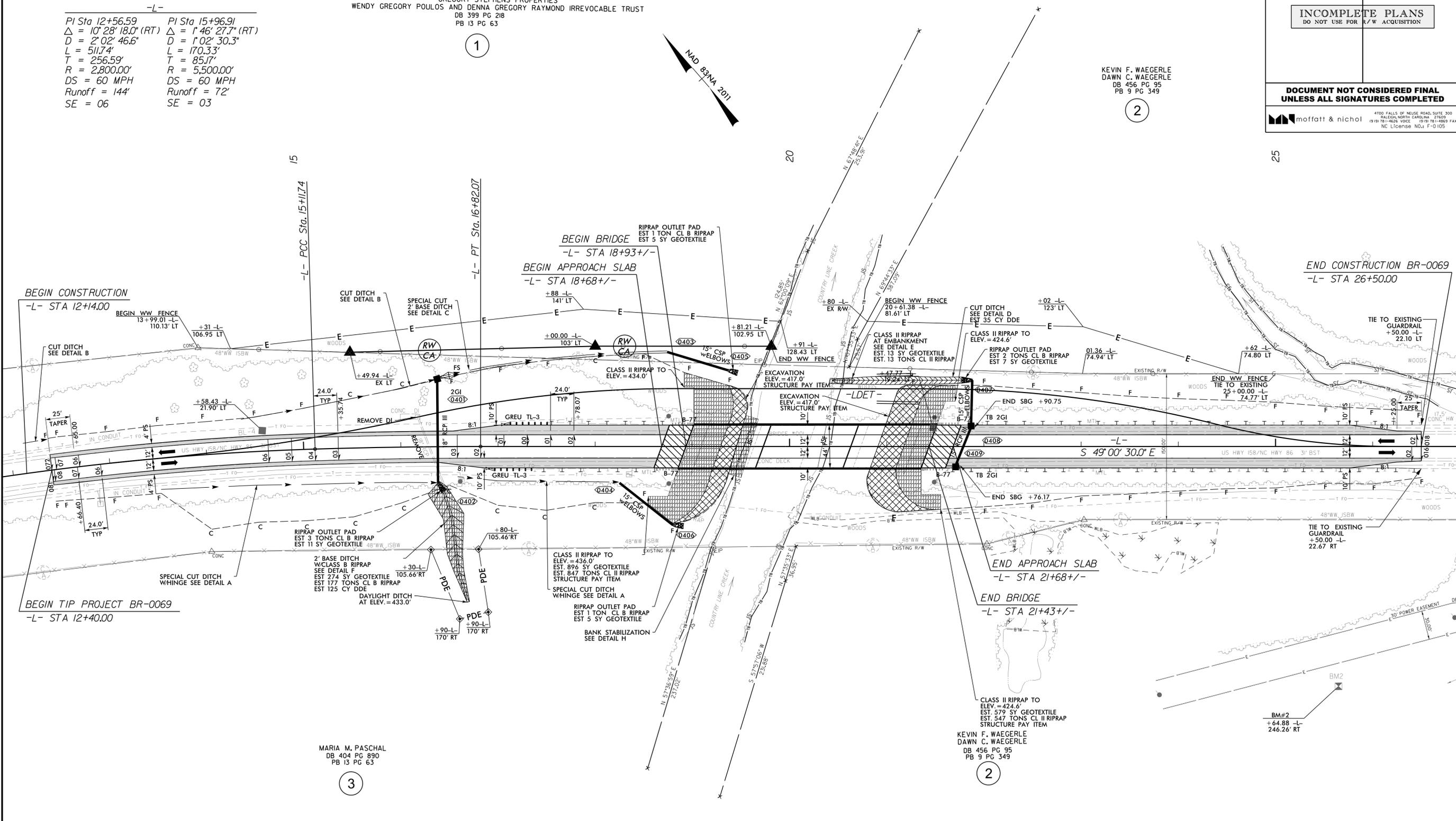
-L-

PI Sta 12+56.59 $\Delta = 10' 28' 18.0''$ (RT) $D = 2' 02' 46.6''$ $L = 511.74'$ $T = 256.59'$ $R = 2,800.00'$ $DS = 60$ MPH $Runoff = 144'$ $SE = 06$	PI Sta 15+96.91 $\Delta = 1' 46' 27.7''$ (RT) $D = 1' 02' 30.3''$ $L = 170.33'$ $T = 85.17'$ $R = 5,500.00'$ $DS = 60$ MPH $Runoff = 72'$ $SE = 03$
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GREGORY-STEPHENS PROPERTIES  
 WENDY GREGORY POULOS AND DENNA GREGORY RAYMOND IRREVOCABLE TRUST  
 DB 399 PG 218  
 PB 13 PG 63

KEVIN F. WAEGERLE  
 DAWN C. WAEGERLE  
 DB 456 PG 95  
 PB 9 PG 349

MARIA M. PASCHAL  
 DB 404 PG 890  
 PB 13 PG 63



FOR -L- PROFILE, SEE SHEET NO. 5

11/14/2022  
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 moffatt & nichol