

Type I or II Categorical Exclusion Action Classification Form

TIP Project No.	BR-0069
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
Total	\$7,074,978

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:

F2. Ground Disturbing Actions – Type I (Appendix A) & Type II (Appendix 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, &/or 30; &/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"> • <i>If any question 1-7 is checked “Yes” then NCDOT certification for FHWA approval is required.</i> • <i>If any question 8-31 is checked “Yes” then additional information will be required for those questions in Section G.</i> 				
<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.

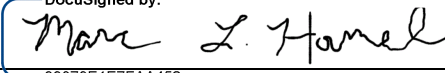
Floodplain Mapping Coordination (NCDOT Hydraulic Design Unit)

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:

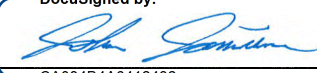
TIP Project No.	<u>BR-0069</u>
WBS Element	<u>67069.1.1</u>
Federal Project No.	<u>N/A</u>

Prepared By:

<u>3/13/2023</u>	<small>DocuSigned by:</small> 
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>	<small>DocuSigned by:</small> 
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>	<small>DocuSigned by:</small> 
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).

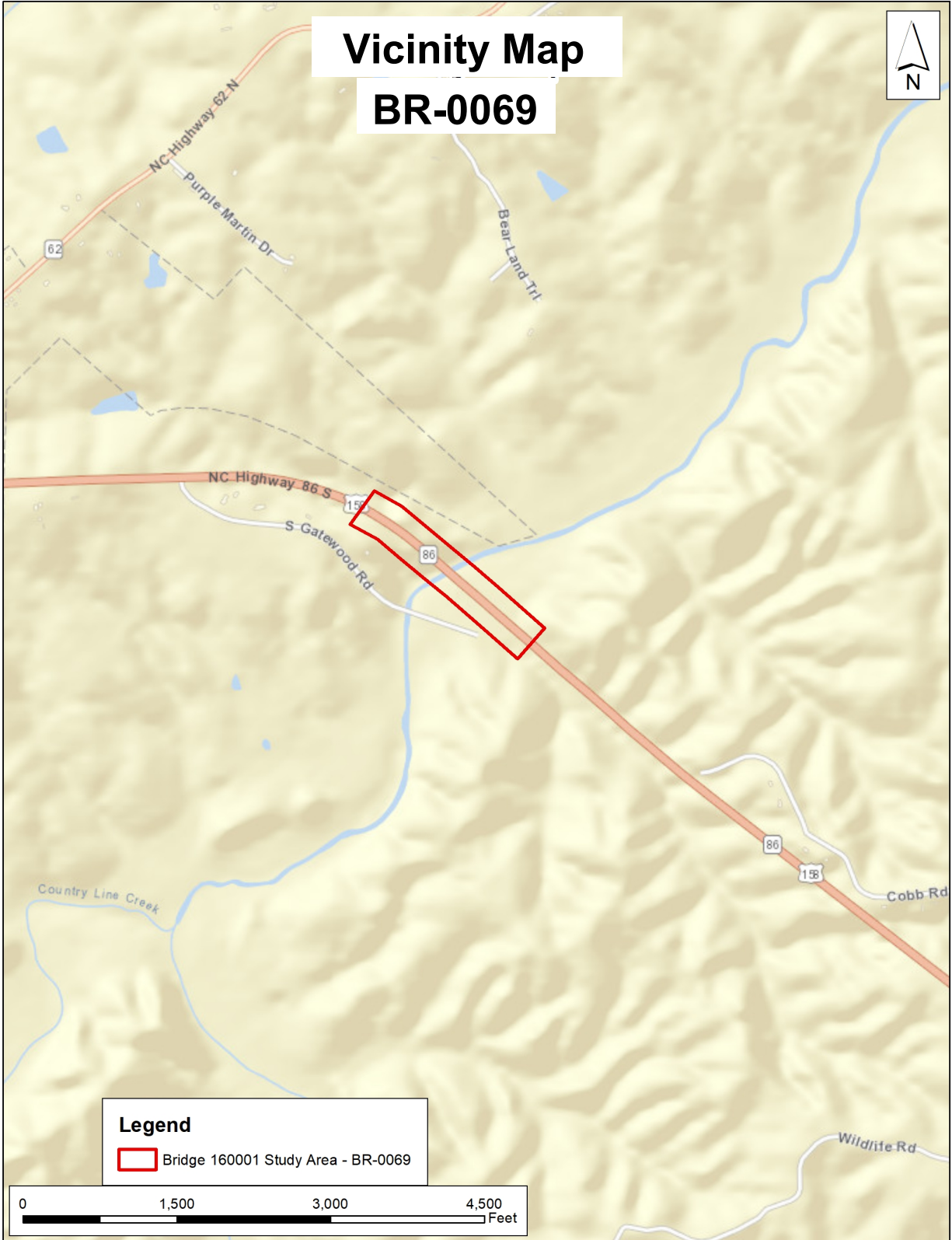


Figure 1: Vicinity Map



Figure 2: Project Study Area Map

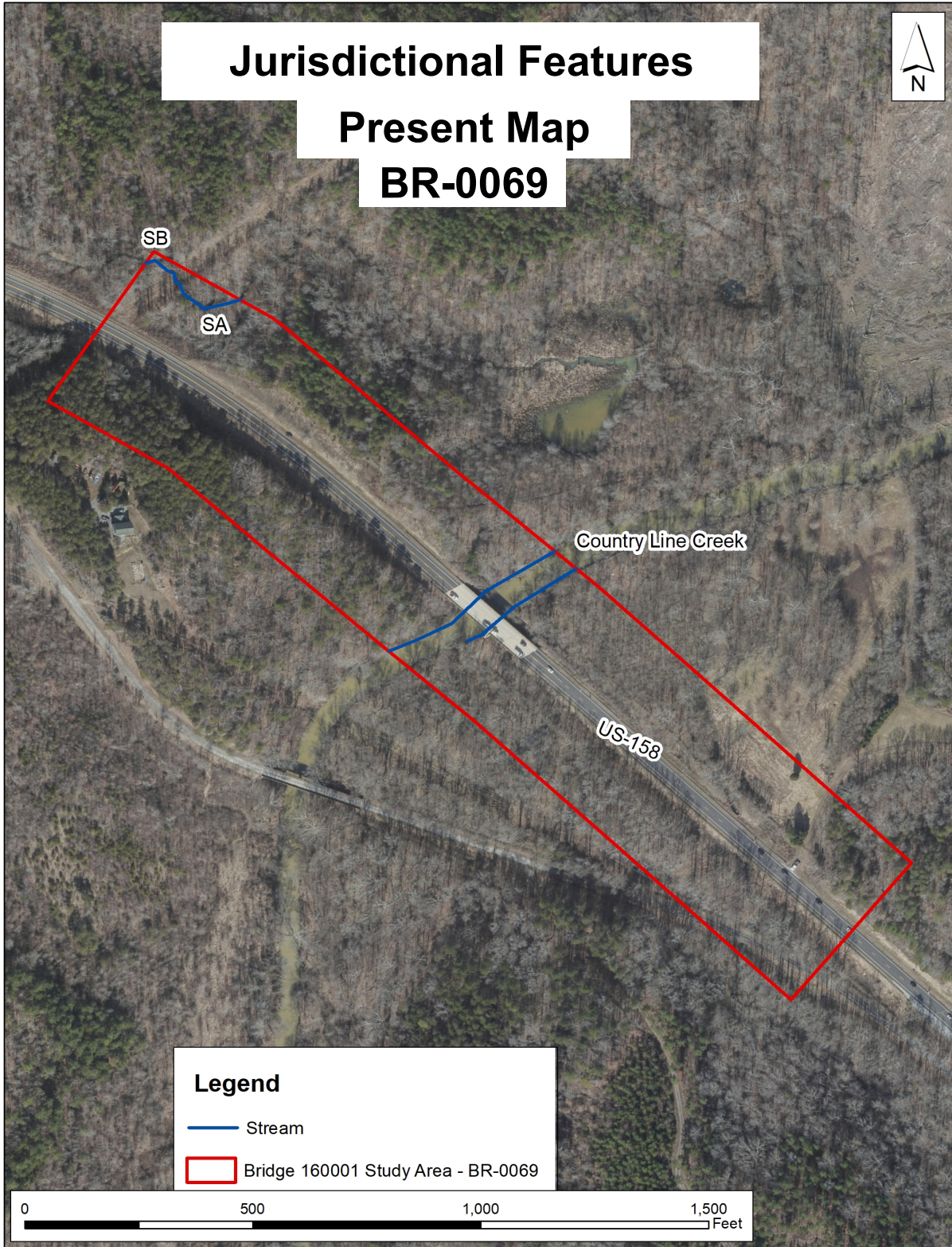
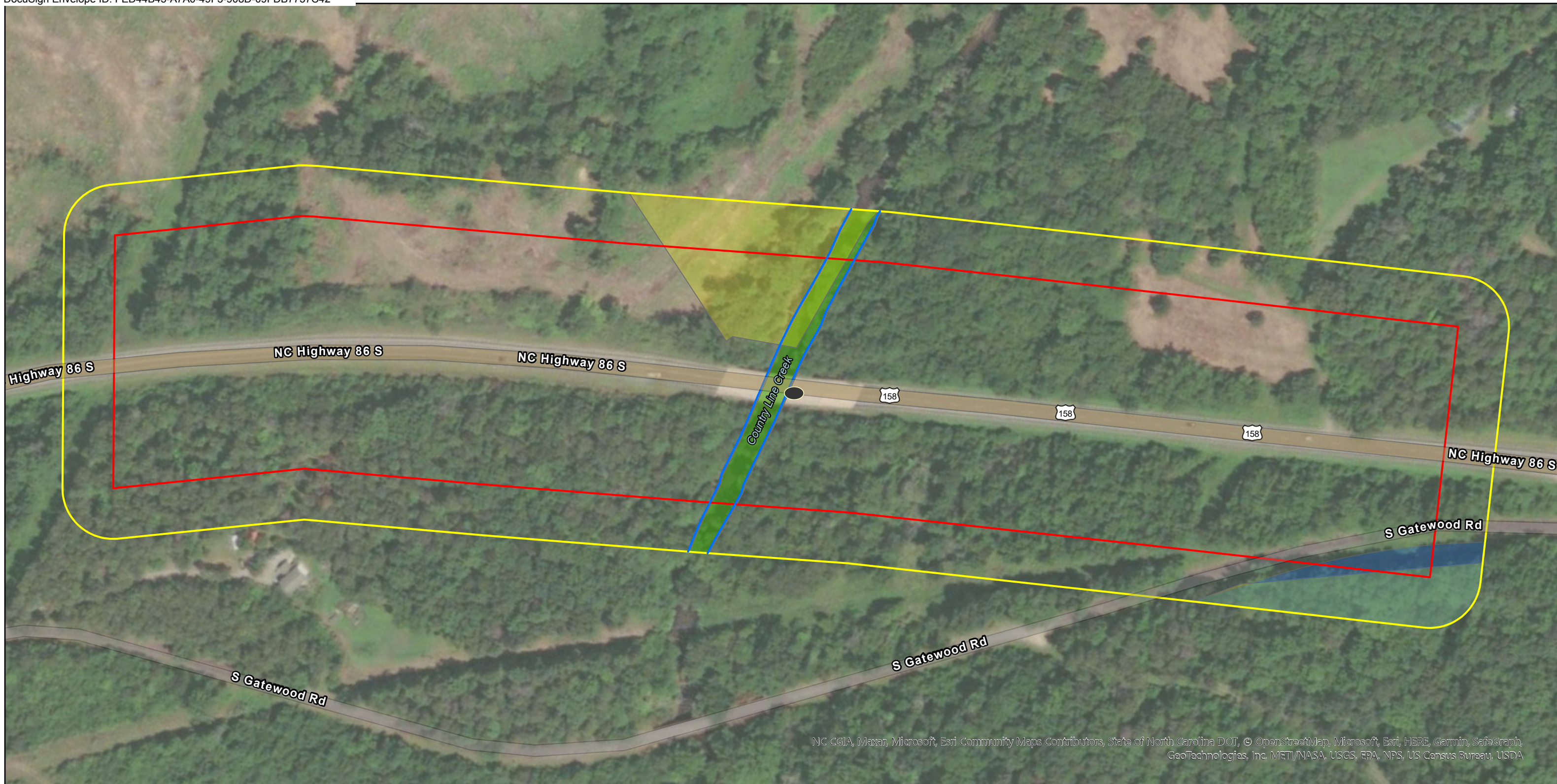


Figure 3: Jurisdictional Features Present Map



NC CGLA, Maxar, Microsoft, Esri Community Maps Contributors, State of North Carolina DOT, © OpenStreetMap, Microsoft, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc. METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA

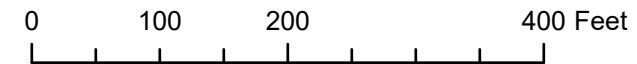
Figure 4: NC ATLAS Screening Map

- 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).

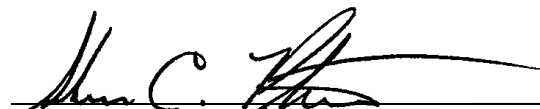
While portions of the proposed study area clearly are significantly sloped or are subject to flooding, there are a number of landforms that may exhibit a higher potential for historic or prehistoric occupation. A reconnaissance investigation of the APE to determine areas where subsurface testing is appropriate,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

**NO NATIONAL REGISTER OF HISTORIC PLACES
ELIGIBLE OR LISTED ARCHAEOLOGICAL SITES
PRESENT 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 archaeological investigations, but a study area was submitted with the request for screening. This study area generally consists of a corridor roughly 2000 feet long and 400 feet wide. For the purposes of the archaeological survey, 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 FINDINGS

The North Carolina Department of Transportation (NCDOT) Archaeology Group reviewed the subject project and determined:

- There are no National Register listed or eligible ARCHAEOLOGICAL SITES present within the project's area of potential effects. (Attach any notes or documents as needed)
- No subsurface archaeological investigations were required for this project.
- Subsurface investigations did not reveal the presence of any archaeological resources.
- Subsurface investigations did not reveal the presence of any archaeological resources considered eligible for the National Register.
- All identified archaeological sites located within the APE have been considered and all compliance for archaeological resources with Section 106 of the National Historic Preservation Act and GS 121-12(a) has been completed for this project.

SUPPORT DOCUMENTATION

See attached: Map(s) Previous Survey Info Photos

Signed:

August 1, 2019

NCDOT ARCHAEOLOGIST

Date

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

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

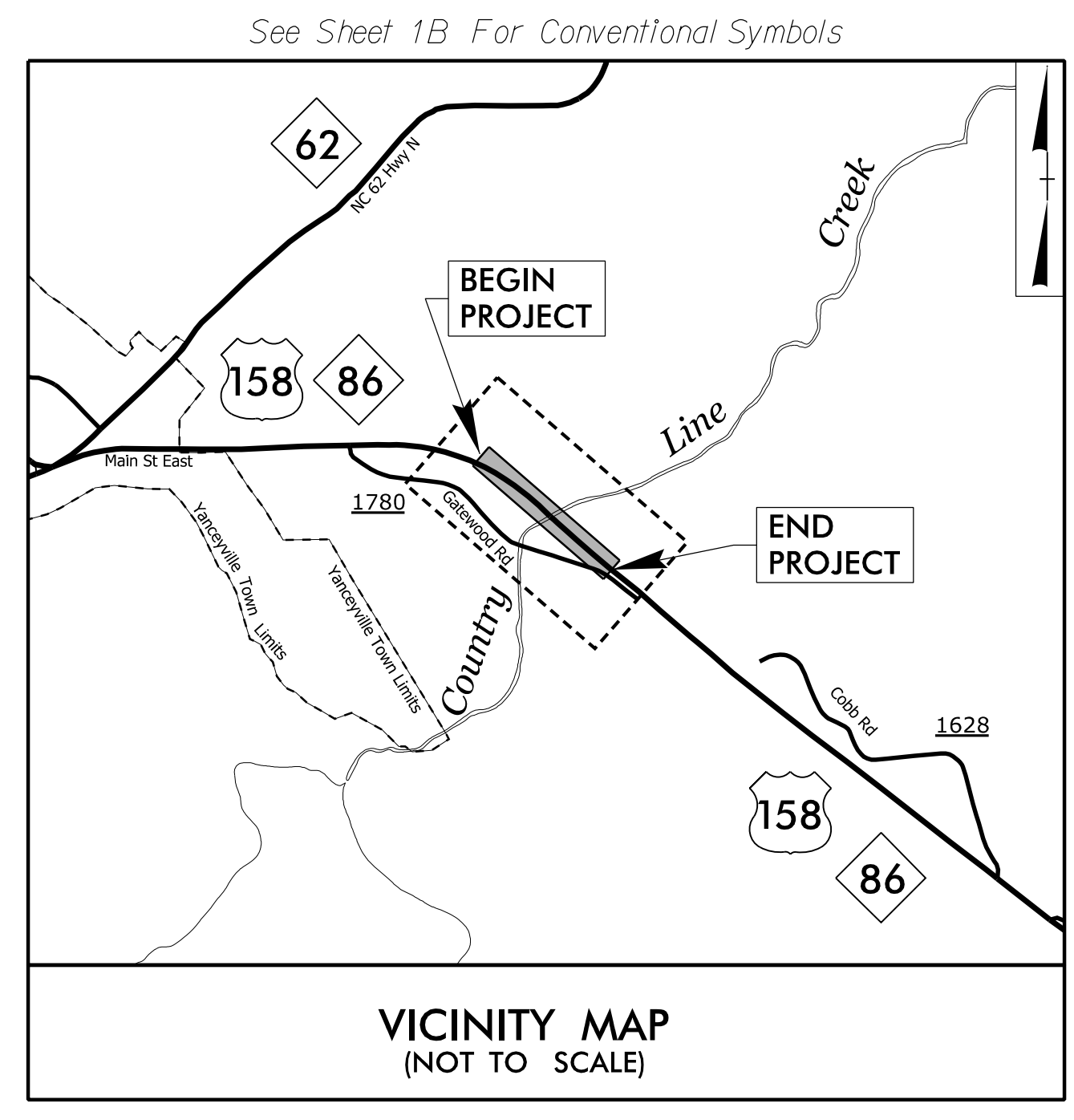
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	BR-0069	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
67069.1.1	N/A	PE	

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS
CASWELL COUNTY

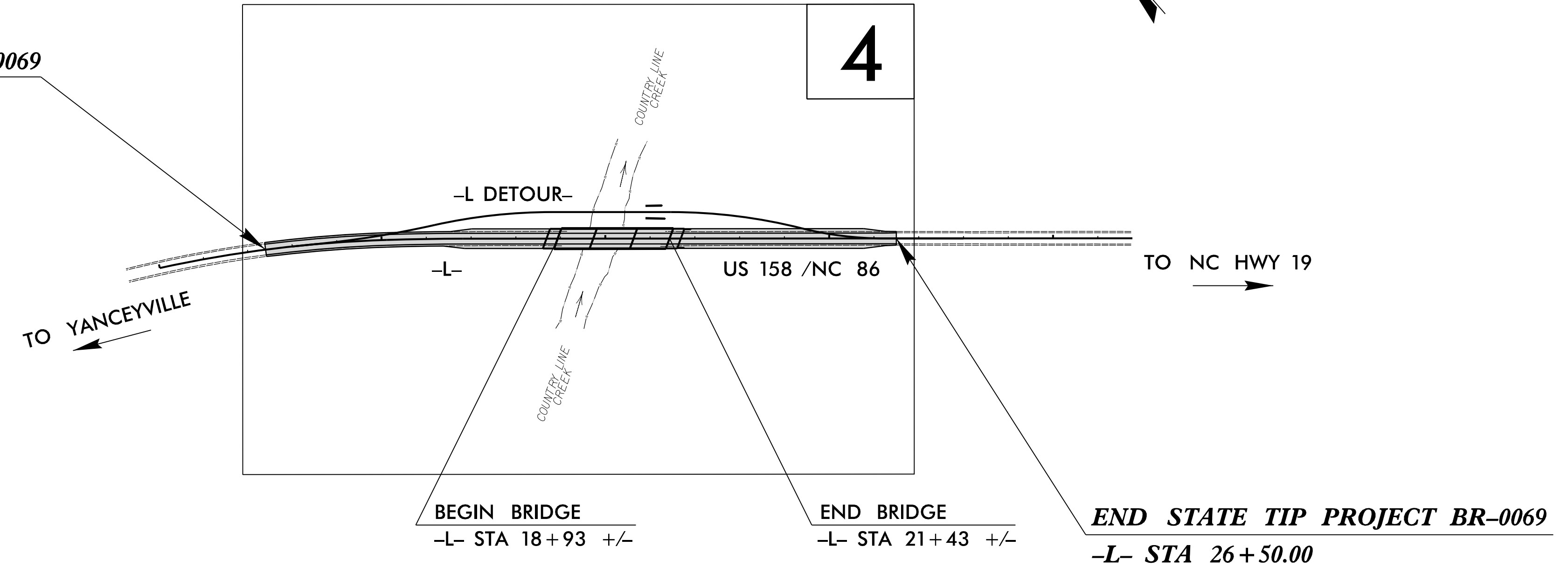
**LOCATION: BRIDGE NO. 160001 OVER COUNTRY LINE CREEK ON
 US 158 /NC 86**
TYPE OF WORK: PAVING, GRADING, DRAINAGE, AND STRUCTURES

FIELD INSPECTION PLANS

TIP PROJECT: BR-0069



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

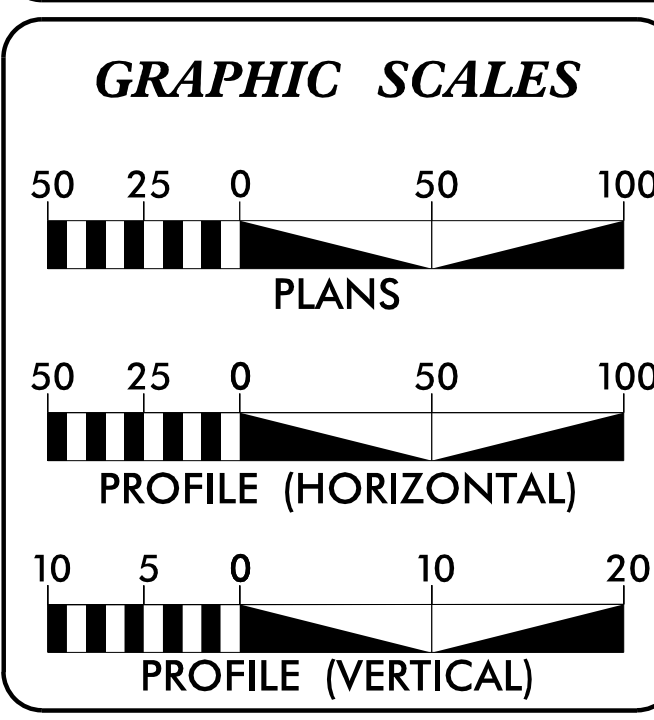


END STATE TIP PROJECT BR-0069
 -L- STA 26+50.00

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

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
 OCTOBER 19, 2022

LETTING DATE:
 OCTOBER 17, 2023

TRENT HUFFMAN, P.E.
 PROJECT ENGINEER

GRAY MODLIN, P.E.
 PROJECT DESIGN ENGINEER

DAVID STUTTS, P.E.
 NCDOT CONTACT

HYDRAULICS ENGINEER

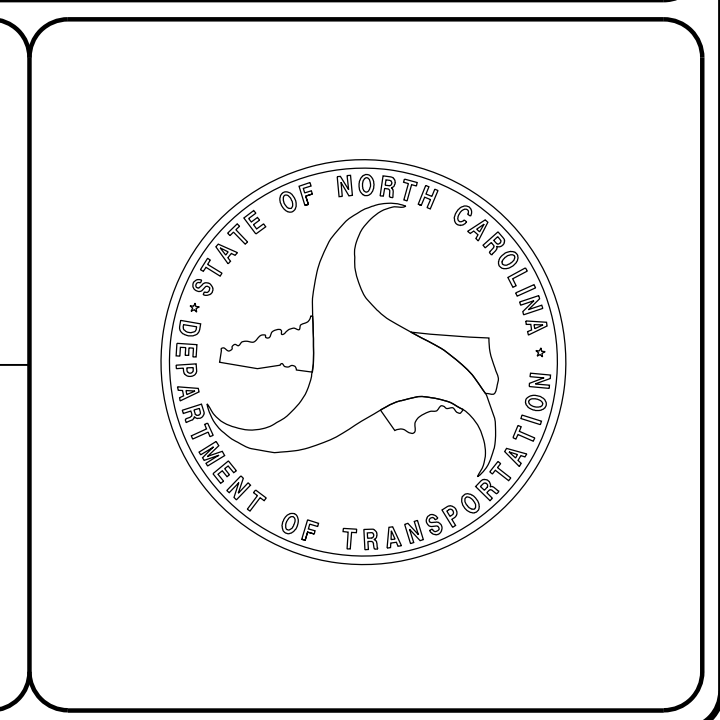
moffatt & nichol

SIGNATURE: _____ P.E.

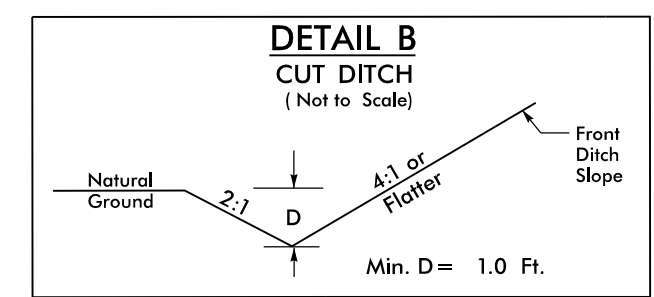
ROADWAY DESIGN ENGINEER

moffatt & nichol

SIGNATURE: _____ P.E.

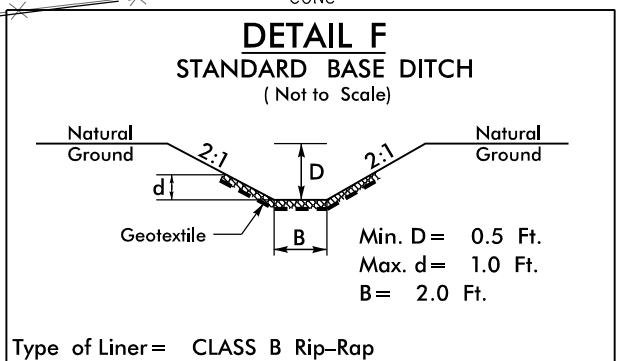
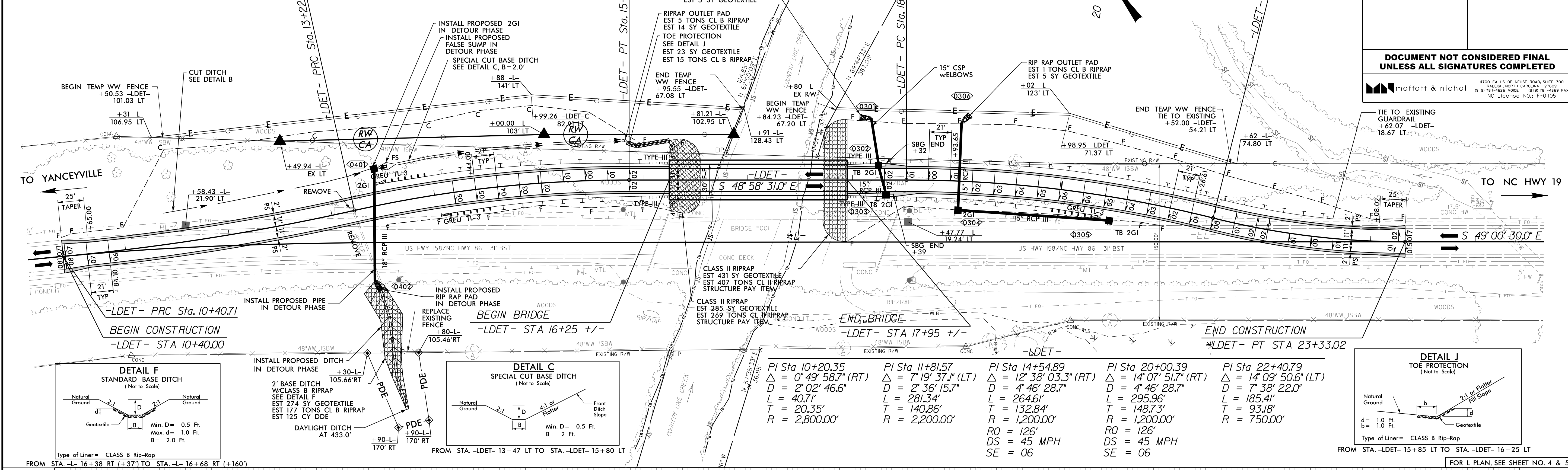


8/17/19

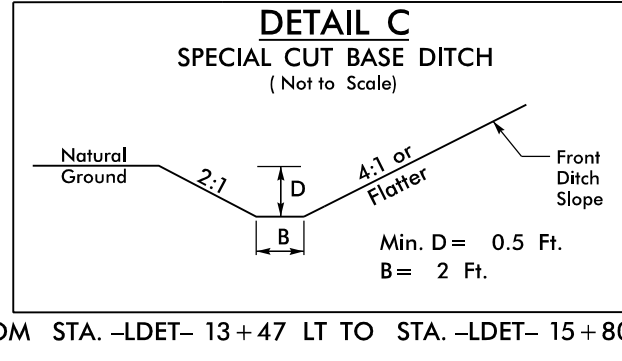


FROM STA. -LDET- 11+40 LT TO STA. -LDET- 13+47 LT

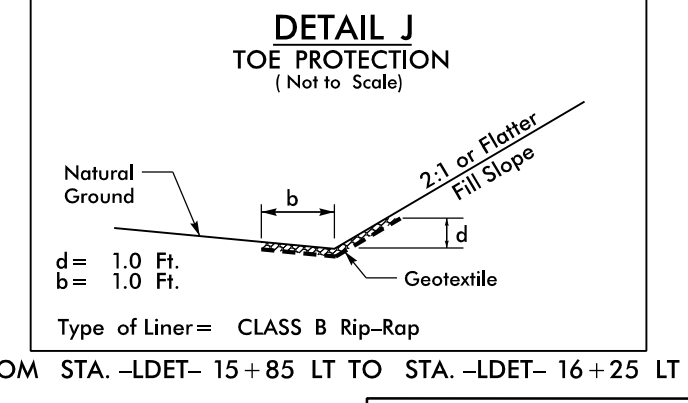
-LDET-



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



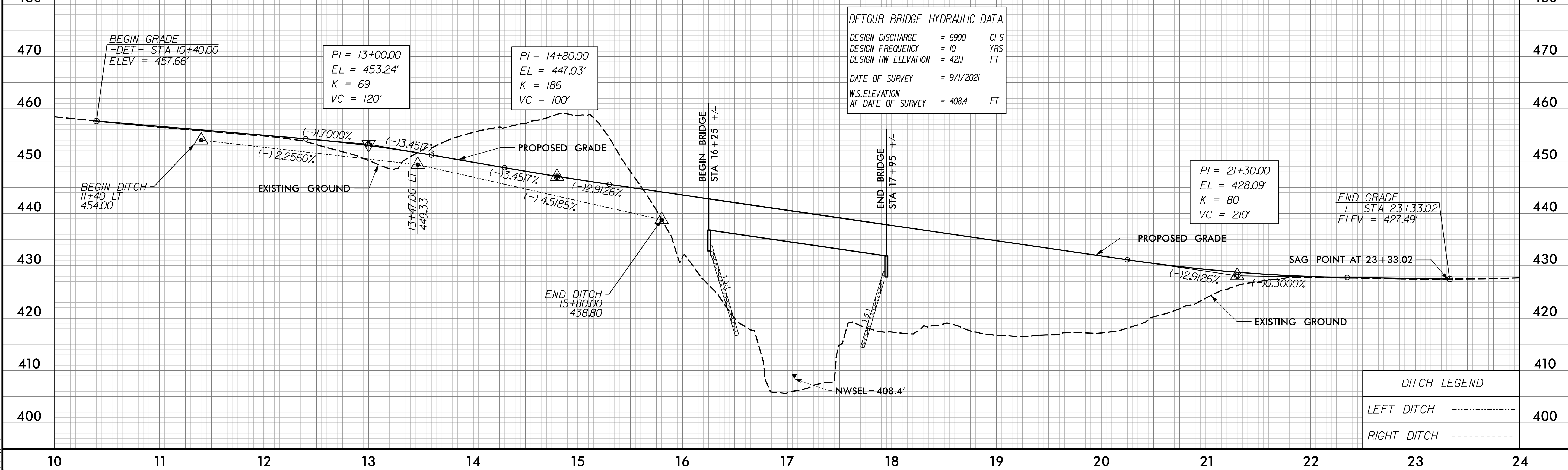
FROM STA. -LDET- 13+47 LT TO STA. -LDET- 15+80 LT



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

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)	$D = 4' 46' 28.7''$	$L = 264.61'$	$T = 132.84'$	$R = 1,200.00'$	126'	45 MPH	06
PI Sta 20+00.39	$\Delta = 14' 07' 51.7''$ (RT)	$D = 4' 46' 28.7''$	$L = 295.96'$	$T = 148.73'$	$R = 1,200.00'$	126'	45 MPH	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-



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

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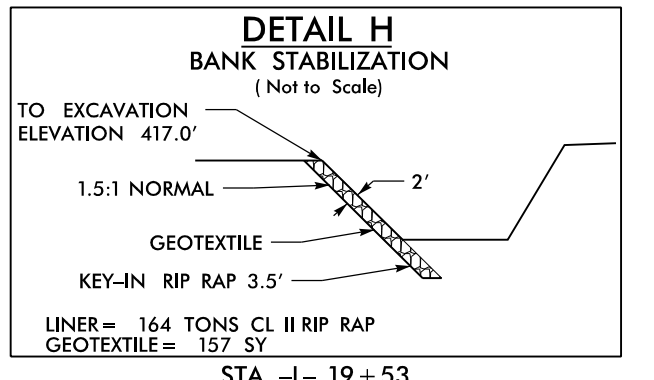
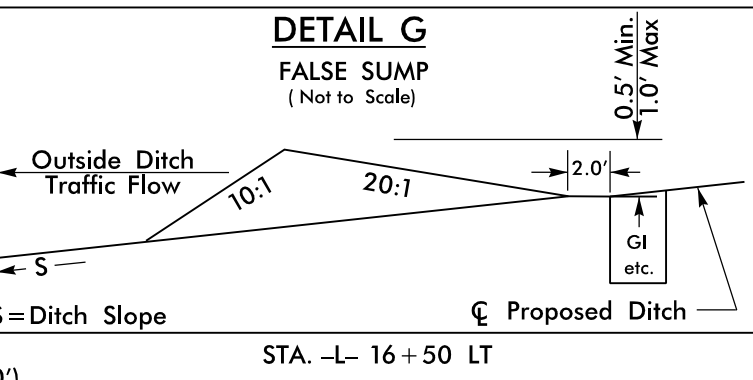
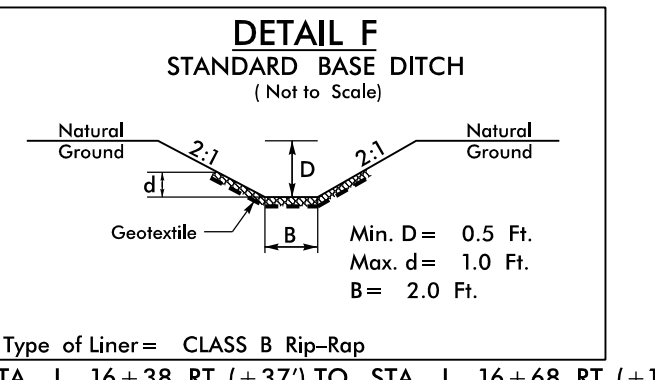
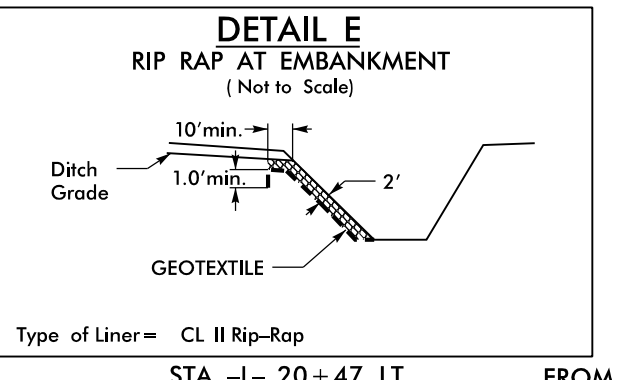
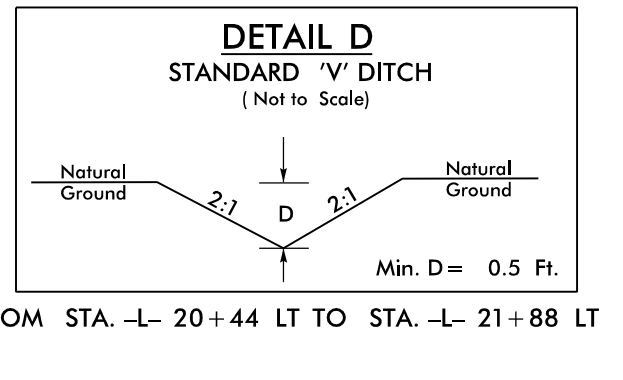
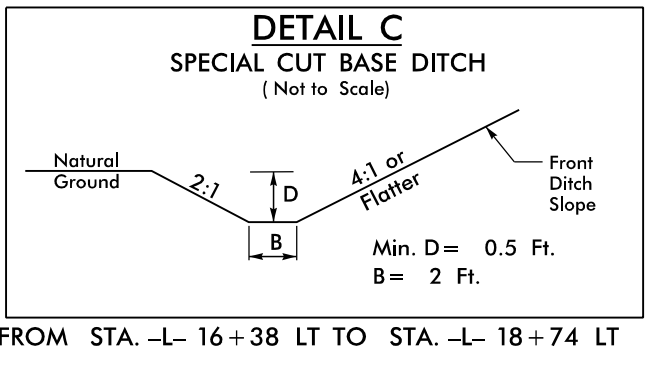
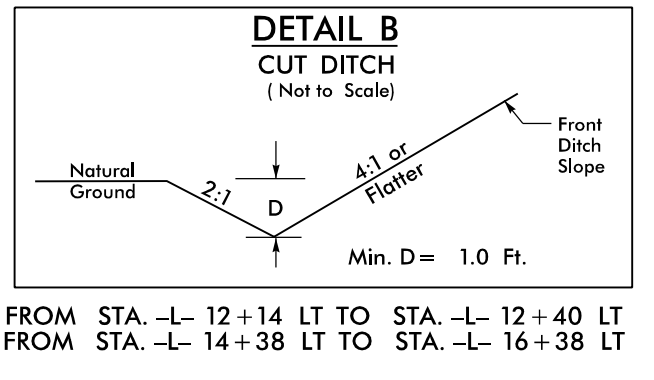
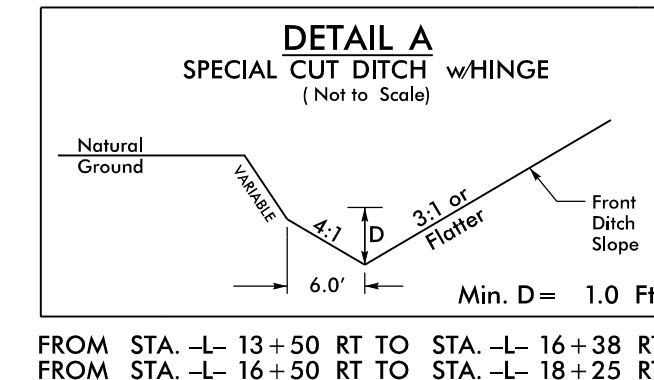
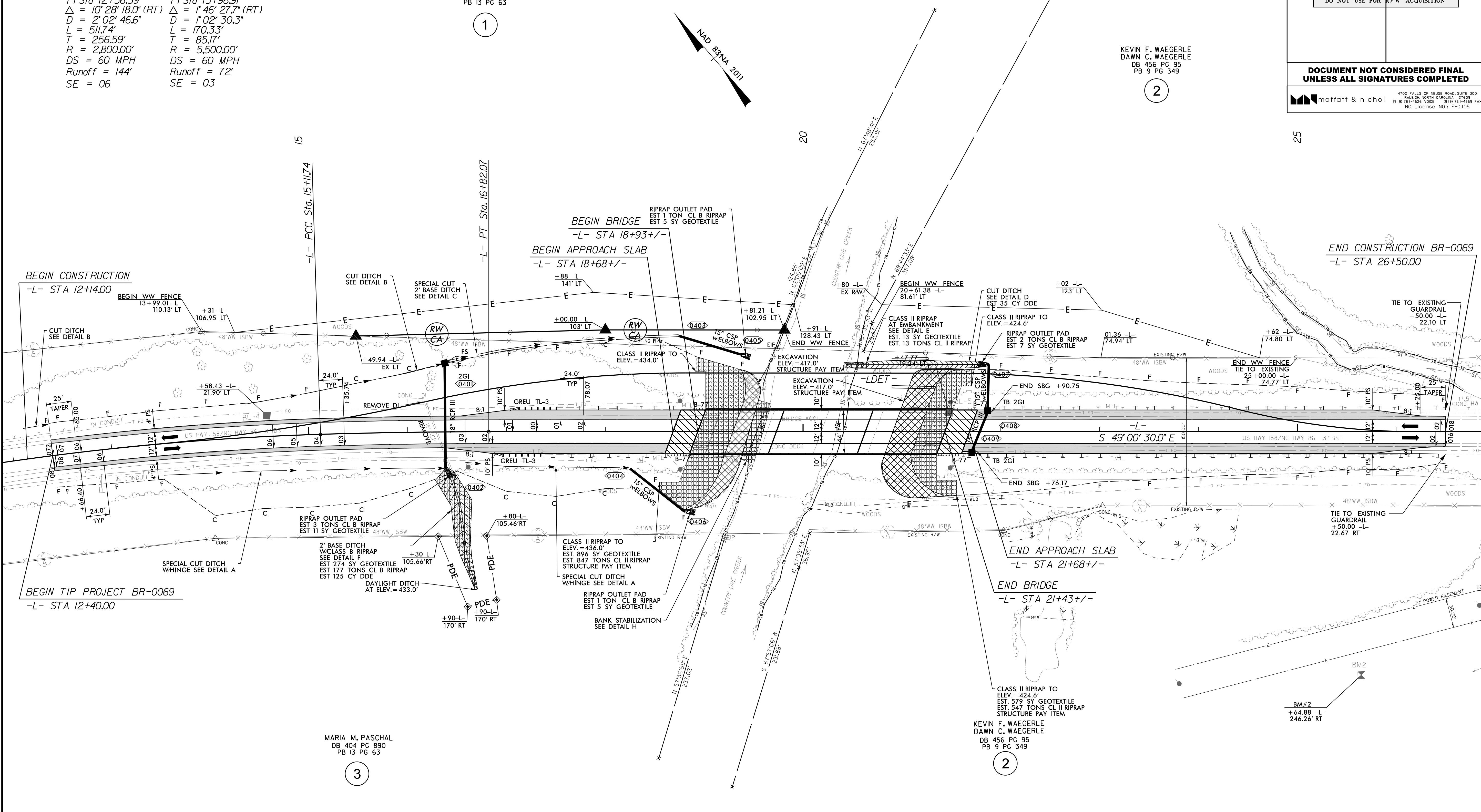
PROJECT REFERENCE NO. <i>BR-0069</i>		SHEET NO. <i>4</i>	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
moffatt & nichol		4700 FALLS OF NEUSE ROAD, SUITE 300 RALEIGH, NORTH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

-L-
 PI Sta 12+56.59 PI Sta 15+96.91
 $\Delta = 10' 28' 18.0''$ (RT) $\Delta = 1' 46' 27.7''$ (RT)
 $D = 2' 02' 46.6''$ $D = 1' 02' 30.3''$
 $L = 511.74'$ $L = 170.33'$
 $T = 256.59'$ $T = 85.17'$
 $R = 2,800.00'$ $R = 5,500.00'$
 $DS = 60$ MPH $DS = 60$ MPH
 Runoff = 144' Runoff = 72'
 SE = 06 SE = 03

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
G:\RA\10011-109\BR-0069\Roadway\Proj\BR-0069_r.dwg_PSH04.dgn