

North Carolina Department of Transportation

NEPA/SEPA Consultation Form

TIP Project No.	BR-0109
WBS Element	49217.1.1
Federal Aid Project No.	N/A

A. Project Description, Location, and Purpose:

The North Carolina Department of Transportation (NCDOT) proposes to replace Bridge No. 80 on Abraham Road (SR 1512) over a tributary to North Deep Creek in Yadkin County in Division 11. The purpose of the project is to replace a bridge that is considered functionally obsolete due to a deck geometry rating of 2 out of 9 according to the Federal Highway Administration (FHWA) standards as recorded by NCDOT Structures Management Unit.

The replacement of Bridge No. 80 is part of the *Growing Rural Economy and Agriculture through Transportation and Technology Enhancement or Replacement in North Carolina* (GREATER-NC) Project under the United States Department of Transportation's 2018 Better Utilizing Investments to Leverage Development (BUILD) Grant program. The purpose of this bridge replacement project and grant is to replace a deficient bridge and provide transportation infrastructure to support economic development and improve physical and digital connectivity in rural communities in North Carolina.

Bridge No. 80 has two 9-foot to 10-foot travel lanes and is approximately 26 feet in length. The proposed bridge will be approximately 62 feet in length with a 27.8-foot wide deck, two 10-foot travel lanes and variable paved shoulder widths that average 3 feet 11 inches. The proposed design speed is 55 miles per hour. Design Exceptions include: Sag Vertical Curve K value and Nighttime Vertical Stopping Sight Distance. The bridge will be replaced along the existing alignment while detouring traffic offsite during construction.

B. Consultation Phase:

- Right-of-Way
- Construction
- Other:

C. NEPA/SEPA Class of Action Initially Approved as:

- FHWA Class II (CE) Signed May 11, 2020

Additional Notes: **Type I(A)**

D. Changes in Proposed Action & Environmental Consequences:

Due to the length of time that has passed since the original CE document for BR-0109 was signed, per NEPA/SEPA guidelines, a construction consultation was warranted to re-evaluate the project and any possible changes in environmental consequences.

It has been determined that since completion of the CE document, all water resources remain unchanged within the project study area. At this time, an additional species, Schweinitz's sunflower, has been included on the Information for Planning and Consultation list for the study area. However, after survey of the study area, the Biological Conclusion of No Effect remains unchanged. NCDOT has determined that the proposed action does not require separate consultation on the grounds that the proposed action is consistent with the final Section 4(d) rule, codified at 50 C.F.R. § 17.40(o) and effective February 16, 2016. NCDOT may presume its determination is informed by best available information and consider Section 7 responsibilities fulfilled for NLEB.

NCDOT has reviewed the Section 106 effects findings for historic properties within the project's area of potential effects (APE) that were made as part of the NEPA analysis. NCDOT has confirmed there is no new information that would alter the original Section 106 findings and, therefore, they remain valid.

There have been no major changes to the design since the CE was approved, no changes in the CE document's checklist, and the impacts recorded in the original document remain valid. No changes are needed to the original CE Greensheet.

E. Conclusion:

The above NEPA/SEPA documentation has been reevaluated (as required by either 23 CFR 771 or by NC General Statute Chapter 113A Article 1). It has been determined that the current proposed action is essentially the same as the original proposed action. Proposed changes, if any, are noted in Section D. It has been determined that anticipated social, economic, and environmental impacts were accurately described in the above referenced document unless noted otherwise herein. Therefore, the original Administration Action remains valid.

F. Coordination

NCDOT personnel have discussed the current project parameters with qualified NCDOT representatives and FHWA (where applicable). The NCDOT Project Manager, Jacqueline Bowles, hereby verifies the involvement of the following staff and the incorporation of their technical input:

Design Engineer:	Travis Potts, PE (ms consultants, inc.)	4/5/2022
Environmental Specialist:	Michael Turchy (ECAP)	11/29/2021
FHWA (if applicable):	N/A	N/A
Other:	William A. Barrett (ECAP)	3/15/2022

G. Consultation Approval for NCDOT Project BR-0109

Prepared By:

5/12/2022

Date

DocuSigned by:
Brittney Kelly
5453E5E6D1AE450
Brittney D. Kelly, PE, Planning Engineer
ms consultants, inc.

Prepared For:

5/12/2022

Date

DocuSigned by:
Jacquelyn Bowles
DD26E87EDEF647E
Jacquelyn Bowles, PE, Engineer III
NCDOT, Structures Management Unit

Reviewed By:

5/15/2022

Date

DocuSigned by:
John Jamison
CA084B4A6412432
John Jamison, Western Regional Team Lead
NCDOT, Environmental Policy Unit



Approved

In adherence with 23 CFR 771 (NEPA) or NC General Statute Chapter 113A Article 1 (SEPA), NCDOT approves this Consultation.

Or



Certified

NCDOT staff certifies if FHWA signature was previously required or where changes have resulted in FHWA signature being required.

5/12/2022

Date

DocuSigned by:
David Stutts
A4A2999A8BC64E2
David Stutts, PE, Project Engineer PEF/Program Management
NCDOT Structures Management Unit

FHWA Approved: FHWA signature required for Type I(B) CE, Type II(B) CE, Type III CE, FONSI or ROD.

N/A

Date

N/A

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

H. Project Commitments (as of May 11, 2022)

**Yadkin County
Replace Bridge No. 80 on Abraham Road (SR 1512)
over tributary to North Deep Creek
Federal Project No. N/A
WBS No. 49217.1.1
TIP Project No. BR-0109**

Current status of the project commitments are printed in italics.

NCDOT Division 11

Continued Coordination Emergency Services

NCDOT should coordinate with Yadkin County Emergency Services (Mr. Keith Vestal, 336.849.7622) at least one month prior to construction.

NCDOT Construction Management

Erosion and sediment control BMPs will be implemented in accordance with NCDOT's Design Standards in Sensitive Watersheds during the design and construction for this project in and around the unnamed tributary to North Deep Creek.

FEMA Floodplains and Floodways (Division 11 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).

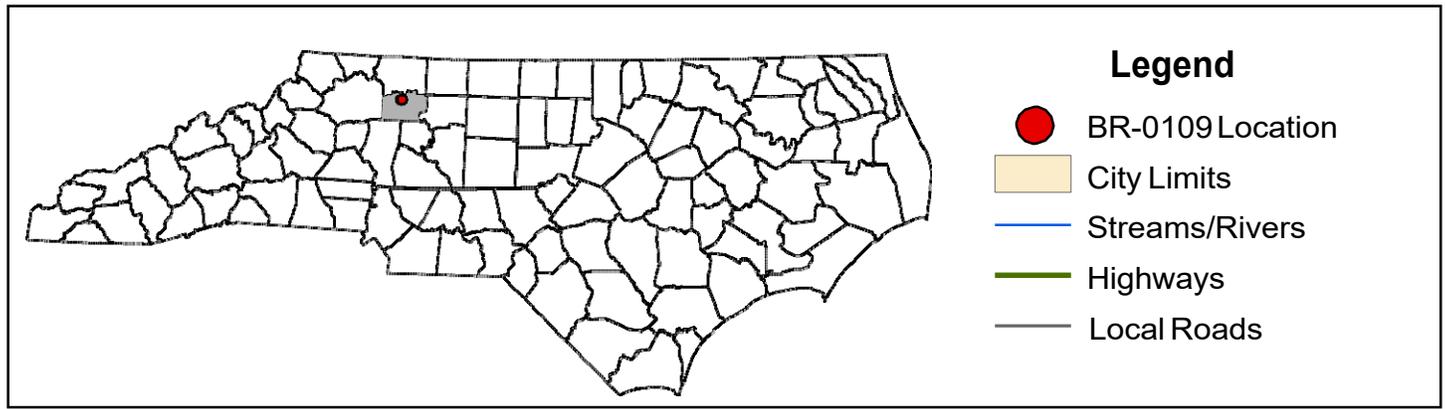
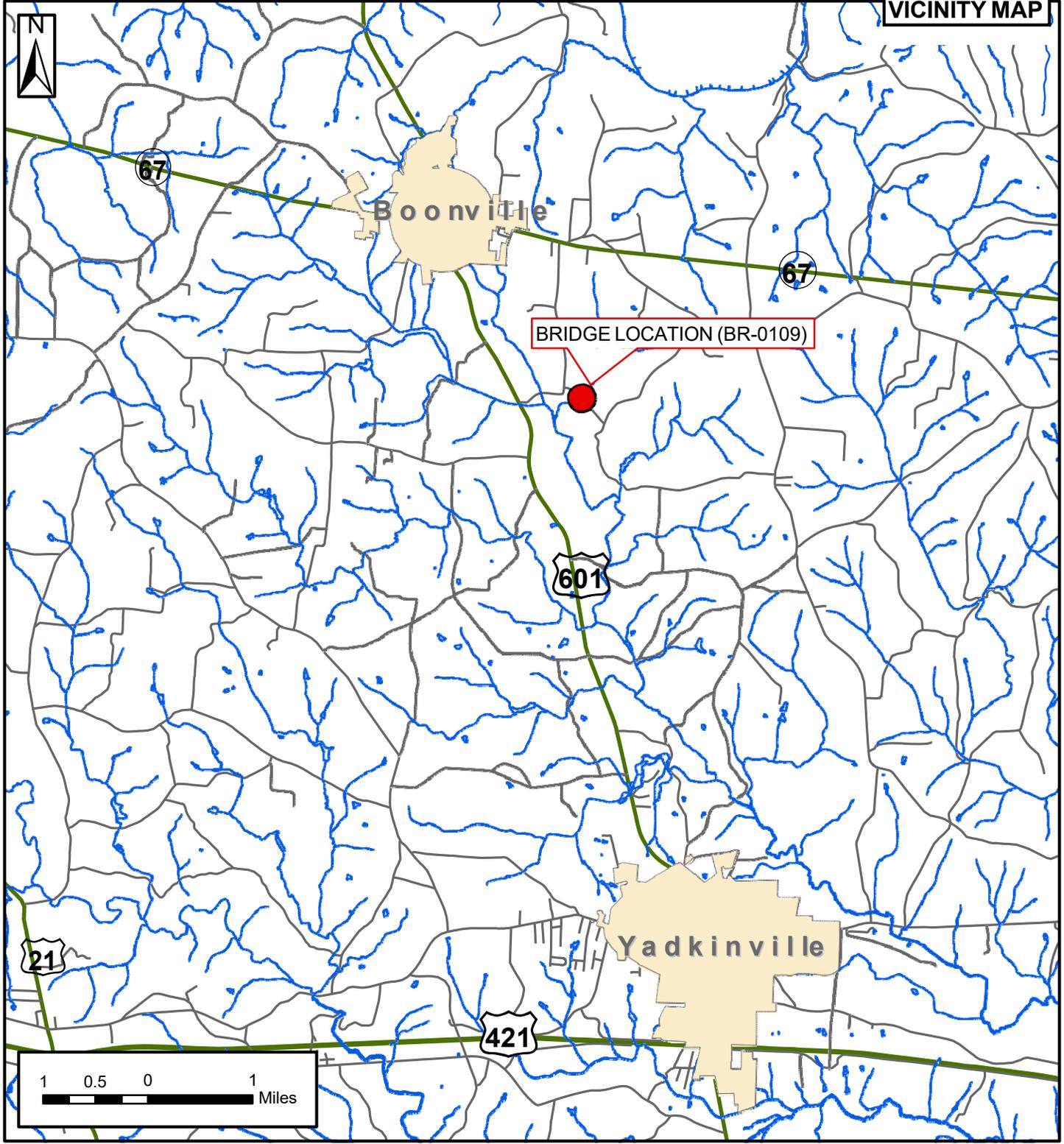
The project is recommended for approval as a type 1 project as stated in the NCFMP and NCDOT MOA Project Review dated June 25, 2020.

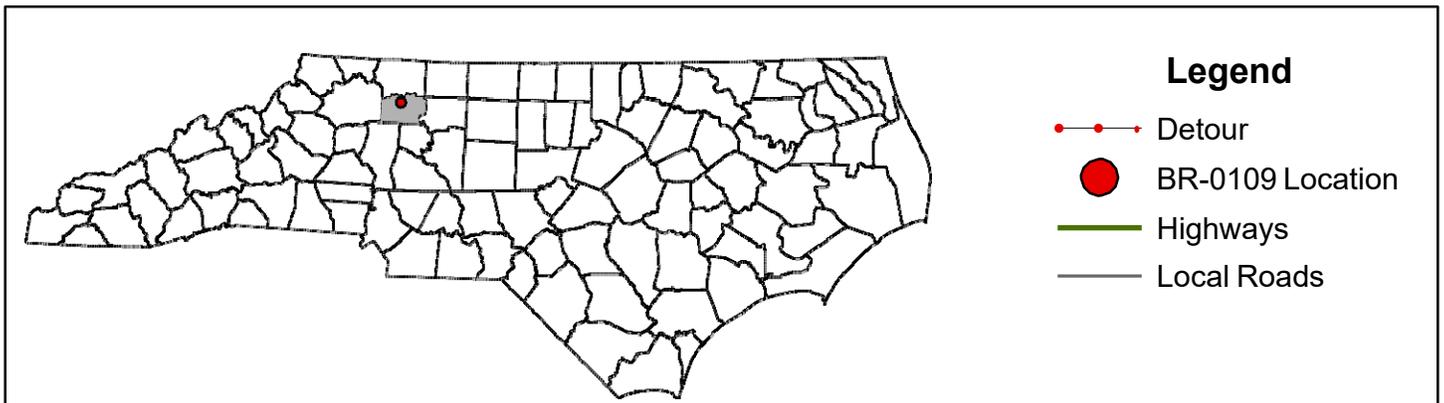
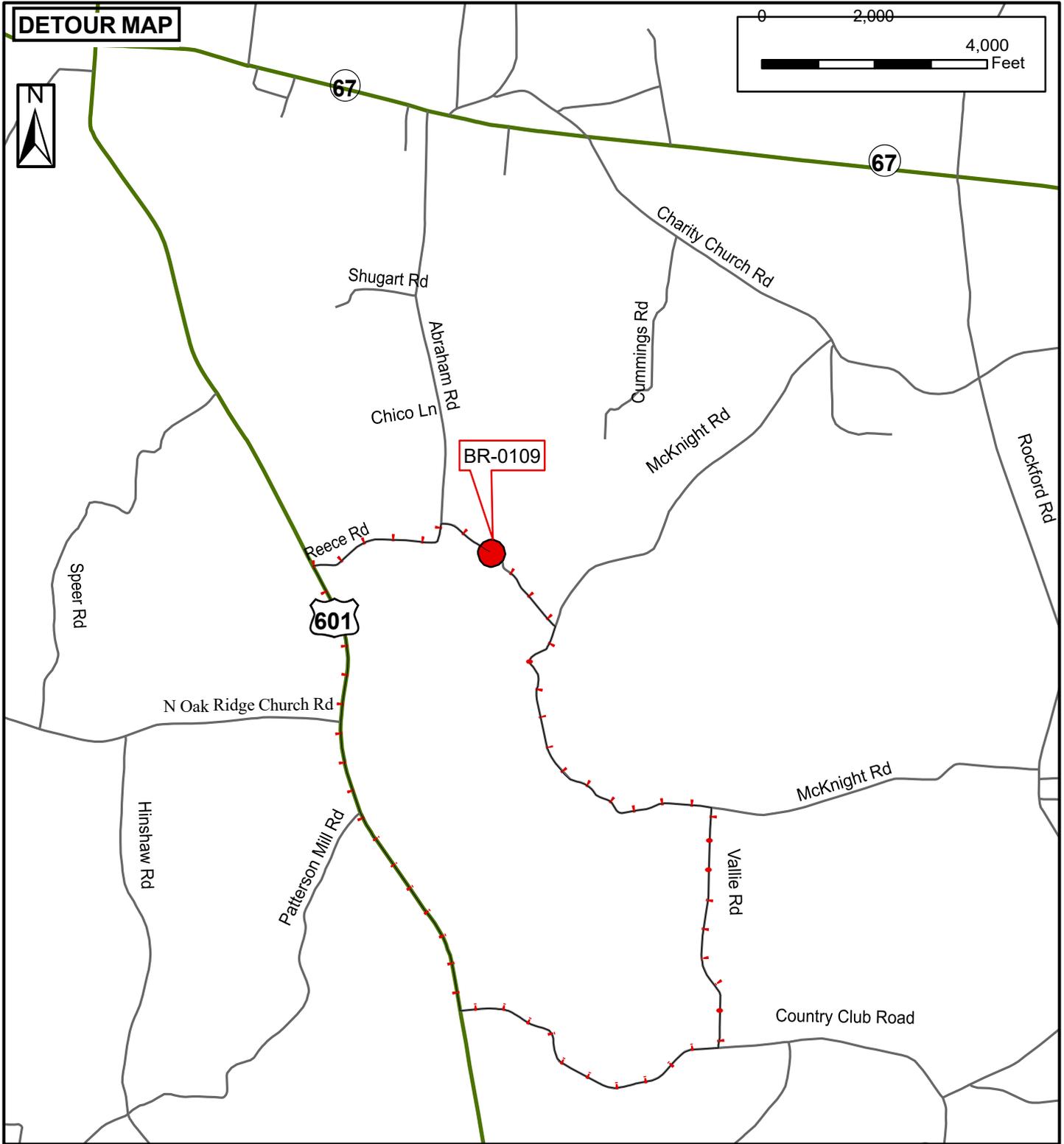
Conservation Easement / Mitigation Bank Coordination (NCDOT SMU and EAU)

NCDOT-SMU will coordinate with EAU to quantify the number of mitigation credits that could be affected by the encroachment from the BR-0109 project.

The available mitigation credits from the Twiman mitigation site will be reduced by 10.6 Stream Mitigation Units, which will be impacted by BR-0109; right of way negotiation efforts are still ongoing to compensate for loss of credits.

VICINITY MAP



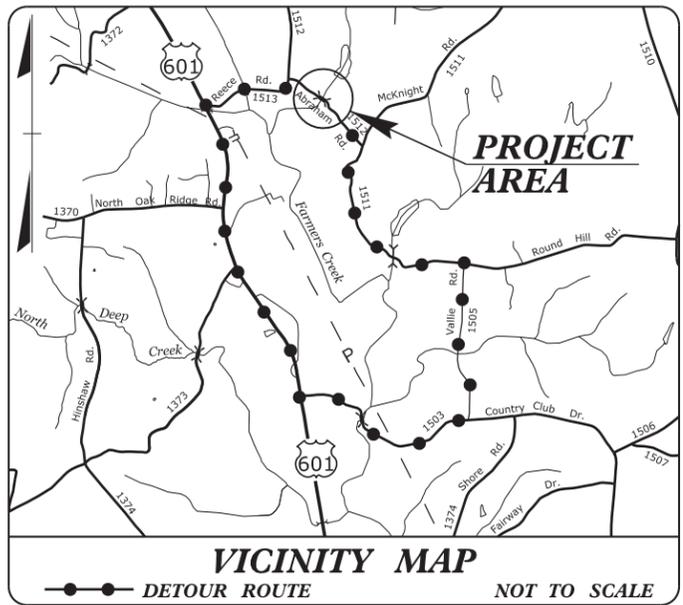


09/28/21

TIP PROJECT: BR-0109

CONTRACT: C204538

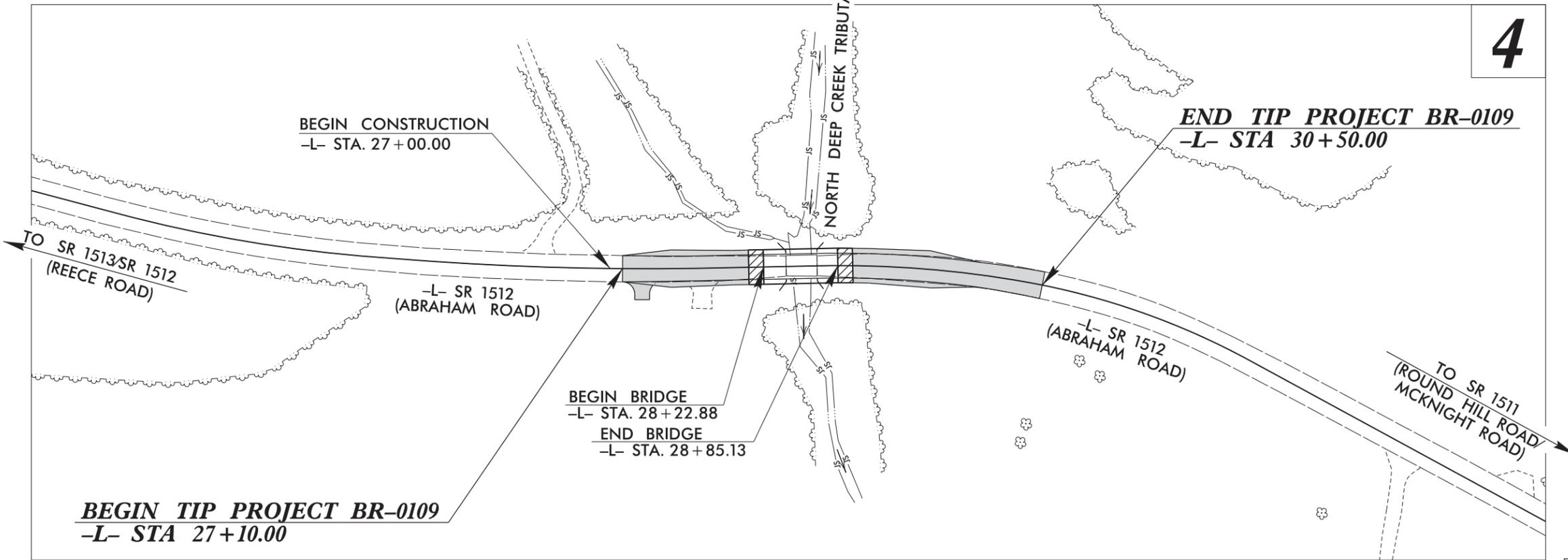
See Sheet 1A For Index of Sheets
See Sheet 1B For Conventional Symbols



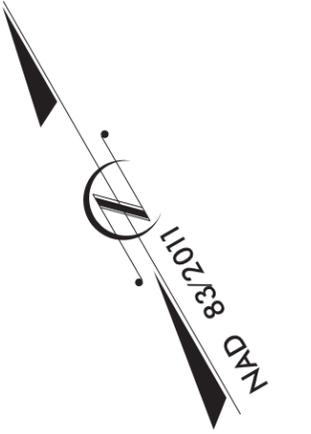
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
YADKIN COUNTY

**LOCATION: REPLACE BRIDGE NO. 80 ON SR 1512 (ABRAHAM RD.)
OVER NORTH DEEP CREEK TRIBUTARY 4B**
TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND STRUCTURE

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	BR-0109	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
49217.1.1		PE	
49217.2.1		RIGHT-OF-WAY	
49217.2.2		UTILITIES	
49217.3.1		CONST.	

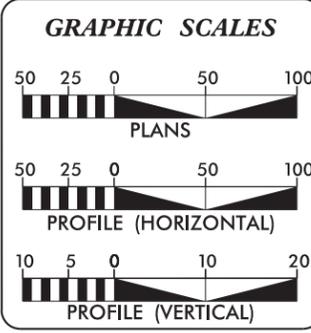


4



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

DESIGN EXCEPTION FOR SAG VERTICAL CURVE K VALUE AND NIGHTTIME VERTICAL SSD.



DESIGN DATA

ADT 2022 =	560
ADT 2040 =	880
V = 55 MPH	
FUNC CLASS =	RURAL LOCAL SUB-REGIONAL TIER

PROJECT LENGTH

LENGTH ROADWAY PROJECT BR-0109	=	0.052 MILES
LENGTH STRUCTURE PROJECT BR-0109	=	0.012 MILES
TOTAL LENGTH PROJECT BR-0109	=	0.064 MILES

Plans Prepared By:
ms consultants, inc.
5444 Wade Park Blvd.
Suite 150
Raleigh, NC 27607
NC License Number - C-3239

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
OCTOBER 15, 2020

LETTING DATE:
JULY 19, 2022

Plans Prepared For:
NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
1000 BIRCH RIDGE DRIVE
RALEIGH, NC 27610

DAVID STUTTS, PE
NCDOT PROJECT ENGINEER

M. TRAVIS POTTS, PE
PROJECT ENGINEER

DAVE JANOSKO, PE
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

RAVA STANSELL
P.E.

SEAL 27876

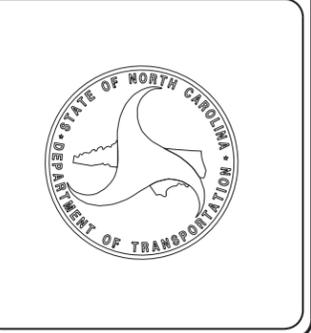
SIGNATURE: _____

ROADWAY DESIGN ENGINEER

M. TRAVIS POTTS
P.E.

SEAL 041453

SIGNATURE: _____

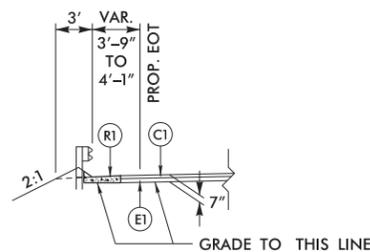


18-APR-2022 12:36
N:\DOCS\08339-05 BR-0109 NCDOT YADKIN 80 OVER UT FARMERS CREEK\Roadway\Proj\BR0109_rdy_tsh.dgn
\$\$\$\$\$SERNAME\$\$\$\$\$

6/22/19

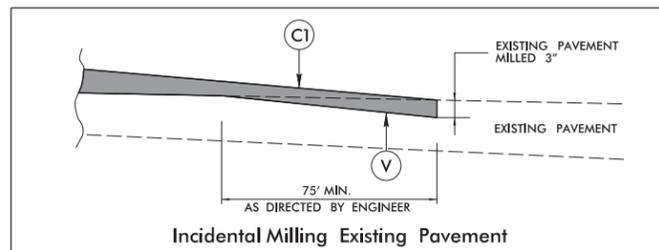
PAVEMENT SCHEDULE	
FINAL PAVEMENT DESIGN (REVISED): MAY 26, 2020	
C1	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD. IN EACH OF TWO LAYERS
E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
R1	SHOULDER BERM GUTTER
T	EARTH MATERIAL
V	INCIDENTAL MILLING

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



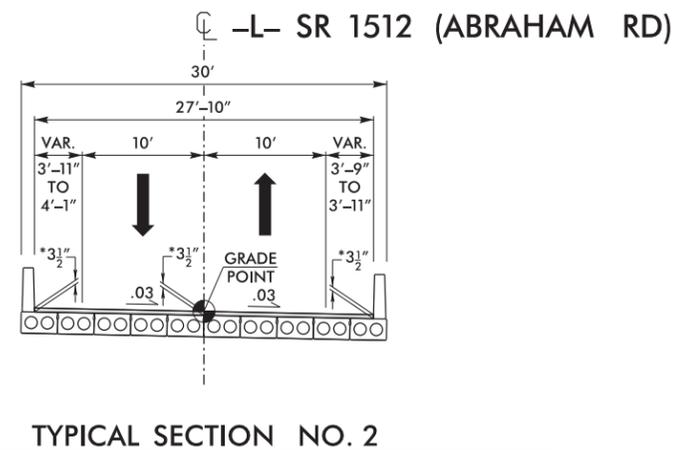
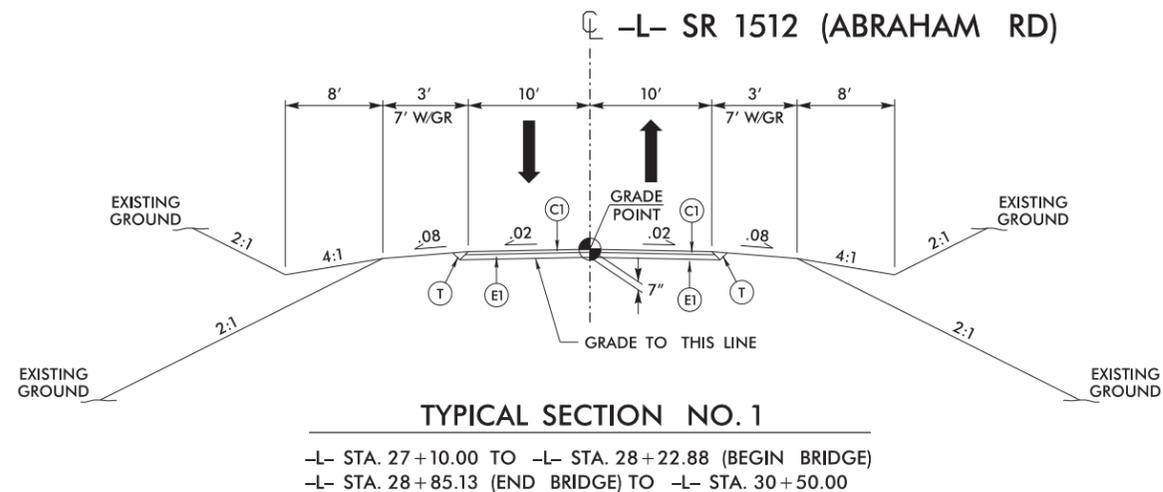
SHOULDER BERM GUTTER DETAIL

- L- STA. 28+07.00 TO -L- STA. 28+12.00 LT & RT
- L- STA. 28+95.55 TO -L- STA. 29+00.55 LT
- L- STA. 28+96.46 TO -L- STA. 29+10.00 RT



ms consultants, inc.
 5444 Wade Park Blvd.
 Suite 160
 Raleigh, NC 27607
 NC License Number : C-3239

PROJECT REFERENCE NO. <i>BR-0109</i>	SHEET NO. <i>2A-1</i>
ROADWAY DESIGN ENGINEER 	PAVEMENT DESIGN ENGINEER 
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



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