

North Carolina Department of Transportation

NEPA/SEPA Consultation Form

STIP Project No.	BR-0108
WBS Element	49216.1.1
Federal Aid Project No.	N/A

A. Project Description, Location, and Purpose:

The replacement of Bridge No. 4 on South Windy Gap Road (SR 2418) over Little Hunting Creek in Wilkes County 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. NCDOT Structure Management Unit (SMU) records indicate Bridge No. 4 has a sufficiency rating of 48.41 out of a possible 100 for a new structure. The bridge is considered structurally deficient due to inefficient load-carrying capacity and a superstructure condition rating of 4 out of a possible 9.

Bridge No. 4 has two 10-foot to 11-foot travel lanes and is approximately 41 feet in length. The proposed bridge will be approximately 70 feet in length with a 27.8 feet wide deck, two 10-foot travel lanes and variable paved shoulder widths that average 3-foot 11-inches. The proposed design speed is 30 miles per hour.

The bridge replacement will be constructed in place using an off-site detour. No structural and geometric improvements are recommended for the off-site detour on Little Hunting Creek Road (SR 2419) and Bowman Branch Road (SR 2420).

B. Consultation Phase: (Check one)

- ☐ Right-of-Way
- ☒ Construction
- ☐ Other: Identify the trigger – (e.g., design change, change in impacts)

C. NEPA/SEPA Class of Action Initially Approved as: (Check one)

- ☒ FHWA Class II (CE) 1/23/20

Additional Notes: **TYPE 1 A**

D. Changes in Proposed Action & Environmental Consequences:

The water resource classifications have not changed since the CE was completed.

As of July 17, 2020, the USFWS lists four federally protected species for Wilkes County. Gray bat was added to the list in November 2019. No suitable habitat was found during a survey on January 9, 2020 resulting in a Biological Conclusion of No Effect for Northern long-eared bat or Gray bat. No biological conclusion is required for the bog turtle, and the USFWS does not require surveys for Rusty-patched bumble bee. The list of protected species remain unchanged since the Categorical Exclusion was completed.

There have been no major changes to the design since the CE was approved.

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.

No notable adverse community impacts, disproportionately high and adverse impacts nor disparate impacts are anticipated to minority and low-income communities.

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(s) 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, Theresa Ellerby, hereby verifies the involvement of the following staff and the incorporation of their technical input:

Design Engineer:	Lisa Sample	02/08/21
Environmental Specialist:	Jeff Hemphill	03/04/21
FHWA (if applicable):	N/A	
Hydraulics Unit	Brian Radakovic	03/04/21

G. Consultation Approval for NCDOT Project No. BR-0108

Prepared By:

3/29/2021

Date

DocuSigned by:

Theresa Ellerby

9876C06756C9407...

Theresa Ellerby
NCDOT, Project Management Unit

Reviewed By:

3/30/2021

Date

DocuSigned by:

Jacquelyn Bowles

DD26E87EDFB647E...

Jacquelyn Bowles, PE
NCDOT, Structure Management Unit

3/31/2021

Date

DocuSigned by:

John Jamison

CA084B4A6412432...

John Jamison, PWS, Western Region 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.

4/1/2021

Date

DocuSigned by:

David Stutts

A742999A9EC64E2...

David Stutts, PE – Project Engineer – PEF/Program Management
North Carolina Department of Transportation

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

N/A

Date

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

H. Project Commitments (as of March 2021)

Wilkes County
Replacement of Bridge No. 4 on South Windy Gap Road (SR 2418) over Little Hunting Creek
WBS Element No. 49216.1.1
T.I.P. Project No. BR-0108

Current status and additions to the project commitments as shown in the Categorical Exclusion for the project are printed in italics.

NCDOT Environmental Analysis Unit (EAU)/Biological Surveys Group (BSG) – Complete Section 7 Consultation

NCDOT's Biological Surveys Group will survey the project study area as appropriate for the gray bat (*Myotis grisescens*). Construction authorization will not be provided, and work on the Project will not start, until consultation with the USFWS under Section 7 is complete. EAU will continue to survey and coordinate with the USFWS and/or USACE until concurrence is obtained.

Status: *On January 9, 2020, NCDOT biologists assessed the bridge project footprint for potential MYGR habitat. No evidence of bats (bats, staining or guano) was observed on this small, timber deck and steel beam bridge. No shallow vertical top sealed crevices or deep vertical unsealed crevices suitable for roosting were present on the structure. No caves or mines are located within the project footprint or within line of sight of the bridge. Therefore, no suitable roosting habitat for MYGR is present. Based on the lack of evidence of bats during the recent bridge inspection, the type of bridge (timber and steel) and lack of caves or mines in the project vicinity, the proposed project will have a biological conclusion of **No Effect** for gray bats. NCDOT may presume its determination is informed by best available information and consider Section 7 responsibilities fulfilled for gray bat.*

NCDOT Division 11 – Continued Coordination with Emergency Services

NCDOT should coordinate with Wilkes County Emergency Services (Mr. Tim Pennington, 336.651.7363) at least one month prior to construction.

NCDOT Division 11 – Continued Coordination with School Transportation Services

NCDOT should coordinate with Wilkes County Public Schools (Mr. Eric Barker, 336.667.1126) at least one month prior to construction.

NCDOT Division 11 Construction, NCDOT Structures Management Unit (SMU) – FEMA Floodplains and Floodways

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.

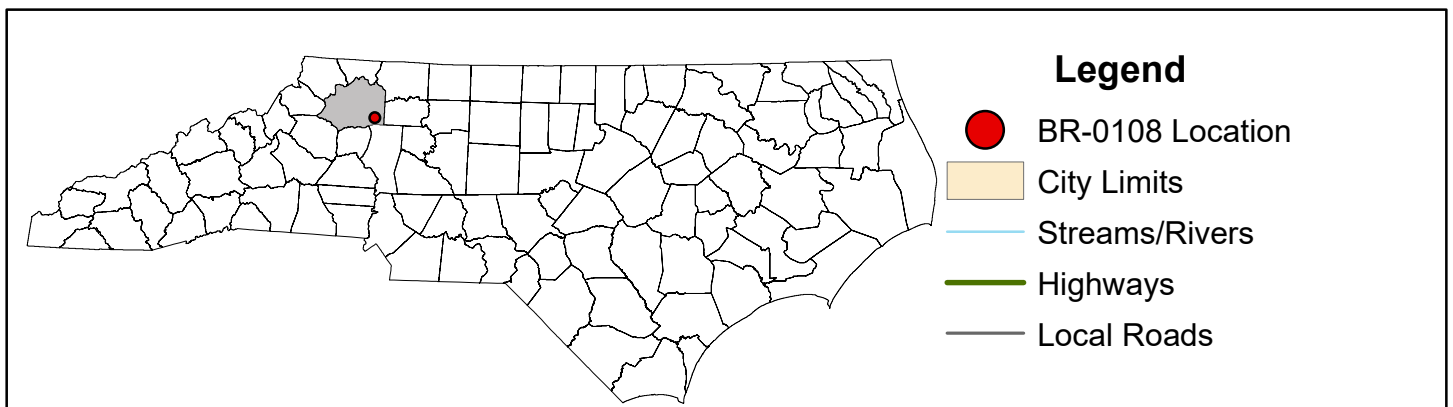
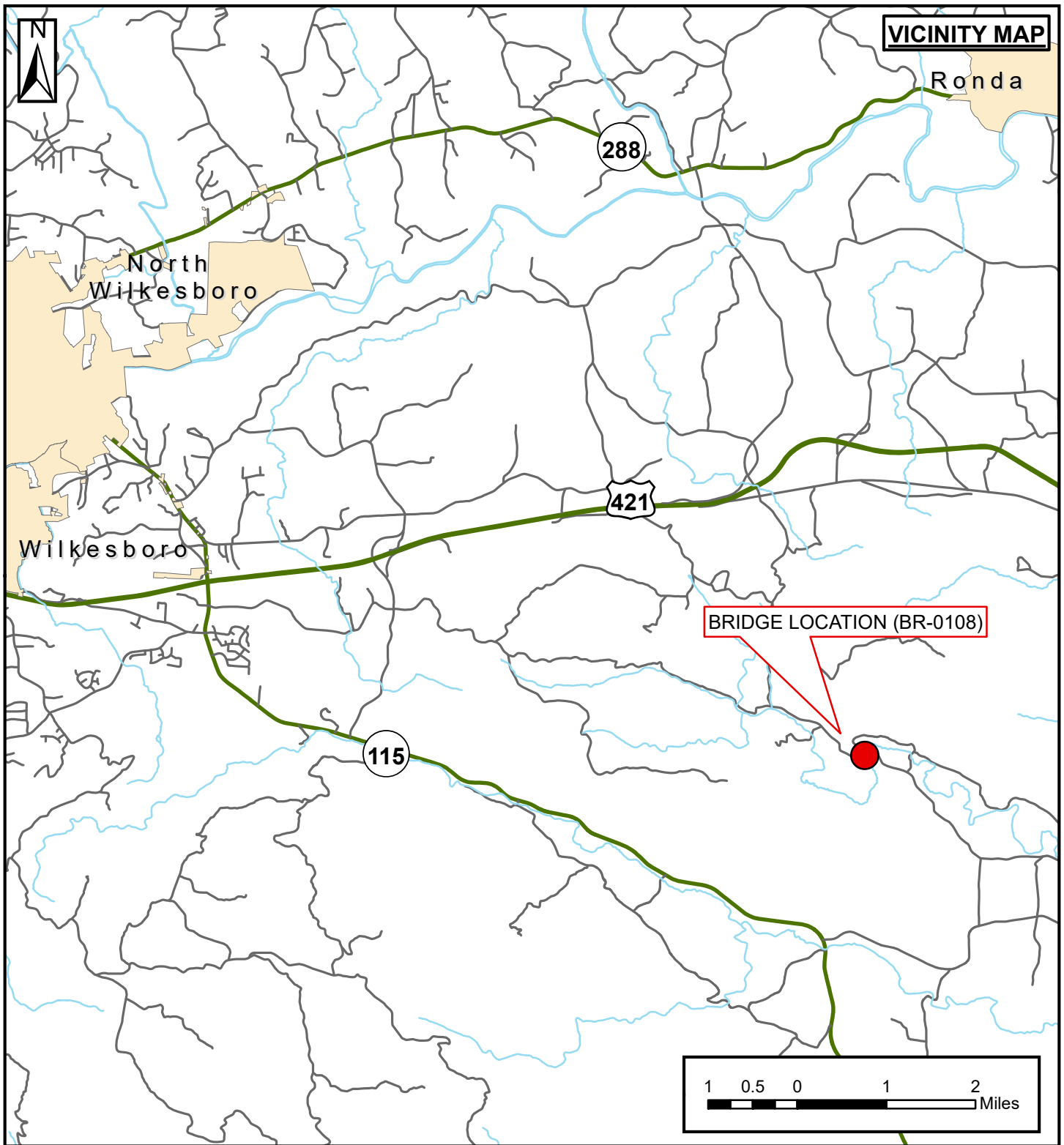
NCDOT Hydraulics Unit – Floodplain Mapping Coordination

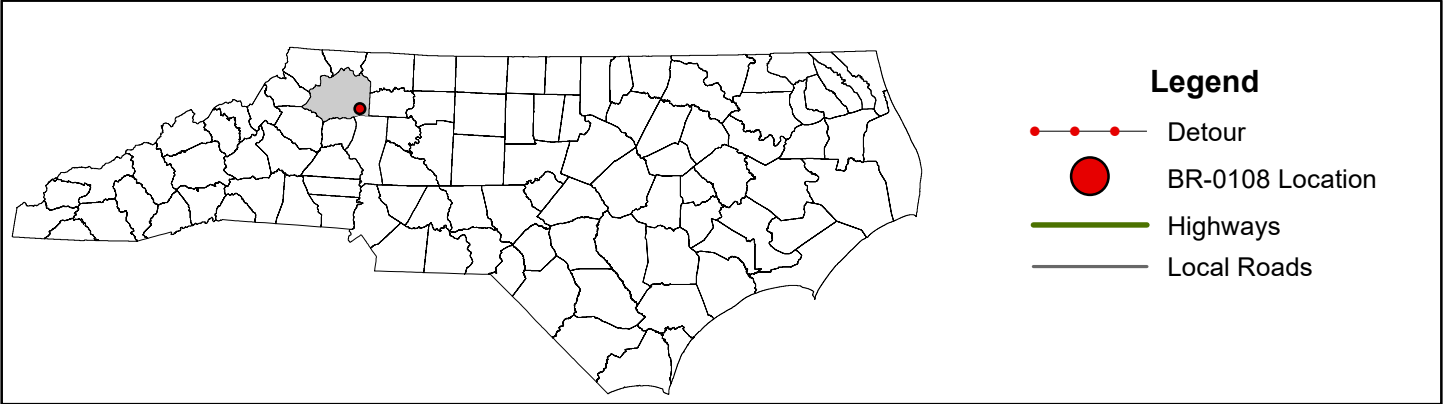
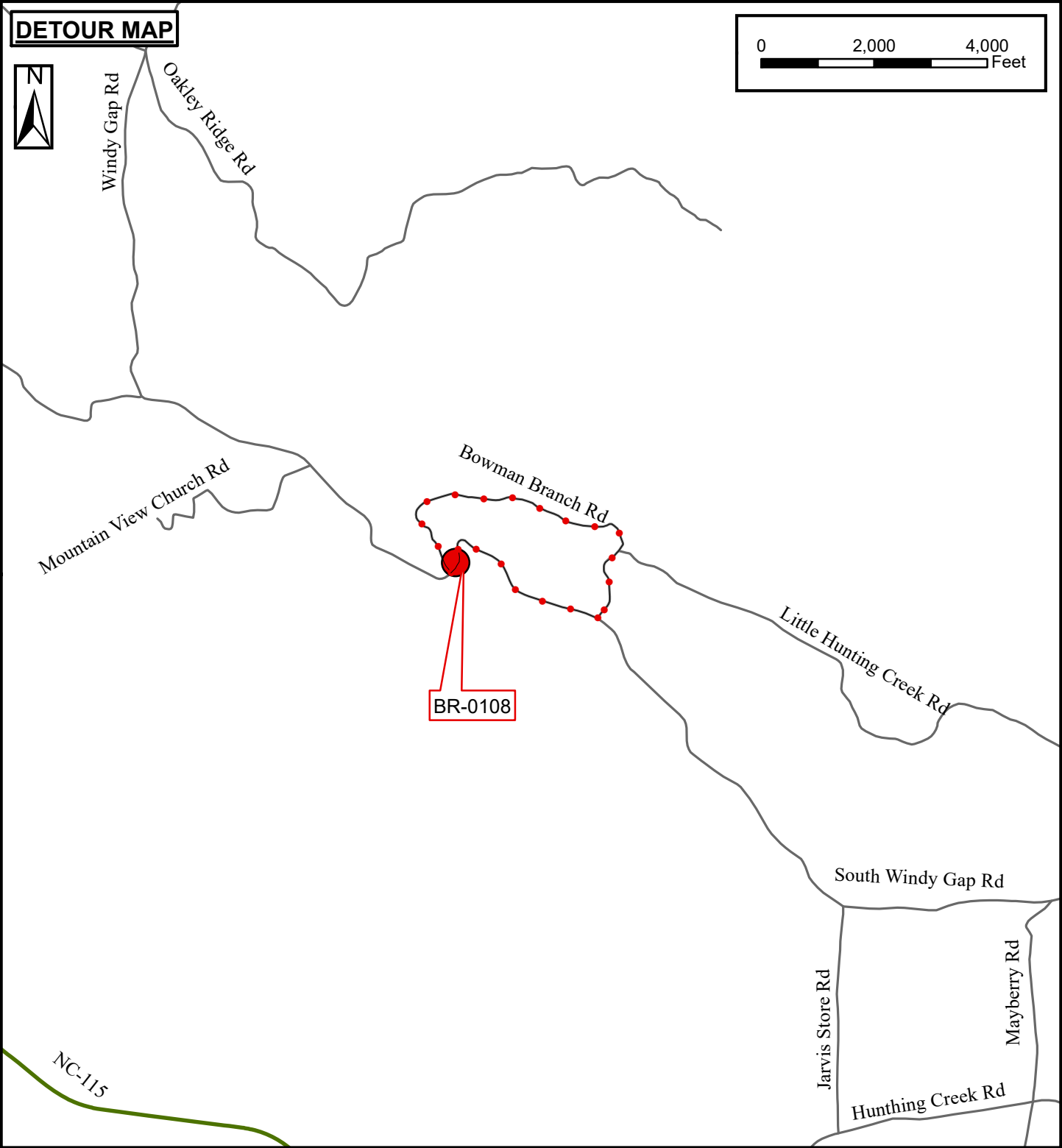
The Hydraulics Unit will coordinate with the NC Floodplain Mapping Program (FMP), to determine status of project with regard to applicability of NCDOT's Memorandum of Agreement, or approval of a Conditional Letter of Map Revision (CLOMR) and subsequent final Letter of Map Revision (LOMR).

Status: *Coordination resulted in approval on September 22, 2020 for the FEMA NFIP (National Flood Insurance Program) under NCDOT's MOA with the FMP.*

NCDOT Division 11 Construction – Tribal Coordination

In the event any tribal artifacts, items of cultural significance, and/or human remains are located during the course of the project, the NCDOT Division 11 Construction Engineer's Office will notify Matt Wilkerson, NCDOT Cultural Resources Archaeology Team Lead, at (919) 707-6089 or mtwilkerson@ncdot.gov to coordinate with the appropriate tribal entities, including the Cherokee Nation and/or Catawba Indian Nation.



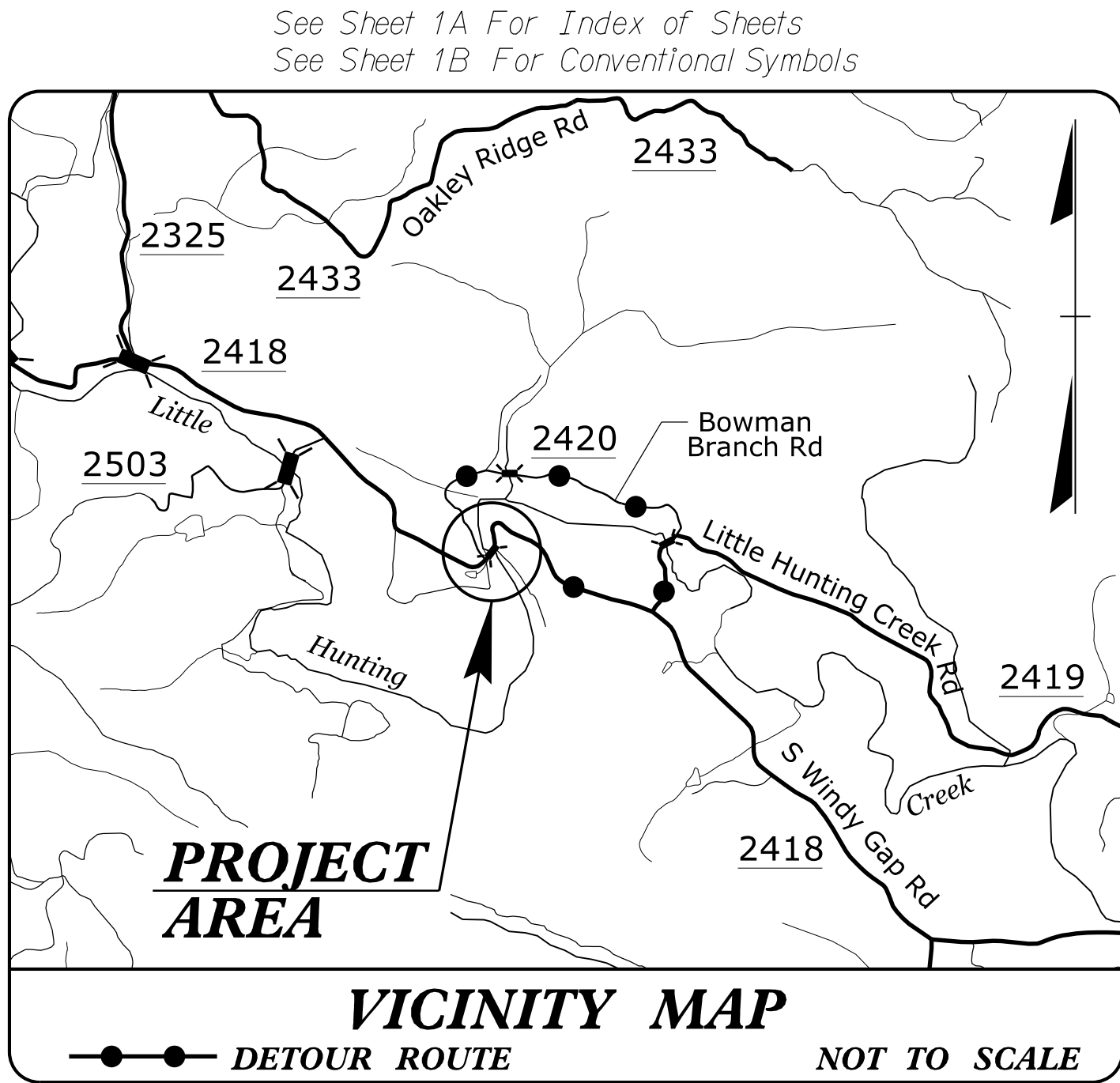


08-FEB-2021 14:37
N:\DOX\08339-04 BR-0108 NCDOT WILKES 4 OVER LITTLE HUNTING CREEK\Roadway\Proj\BR-0108_rdy_tsh.dgn
\$\$\$\$\$USERNAME\$\$\$\$\$

09/08/99

TIP PROJECT: BR-0108

CONTRACT:



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

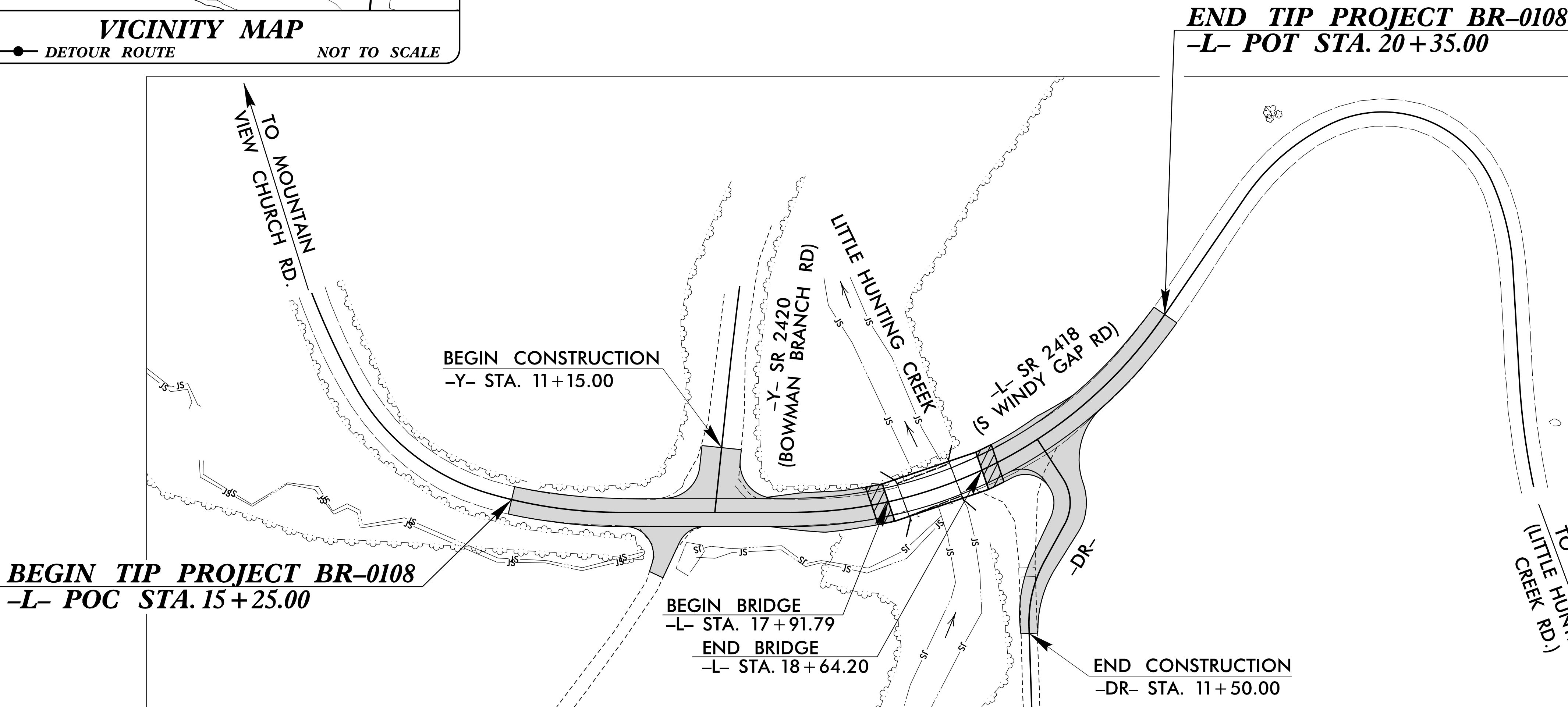
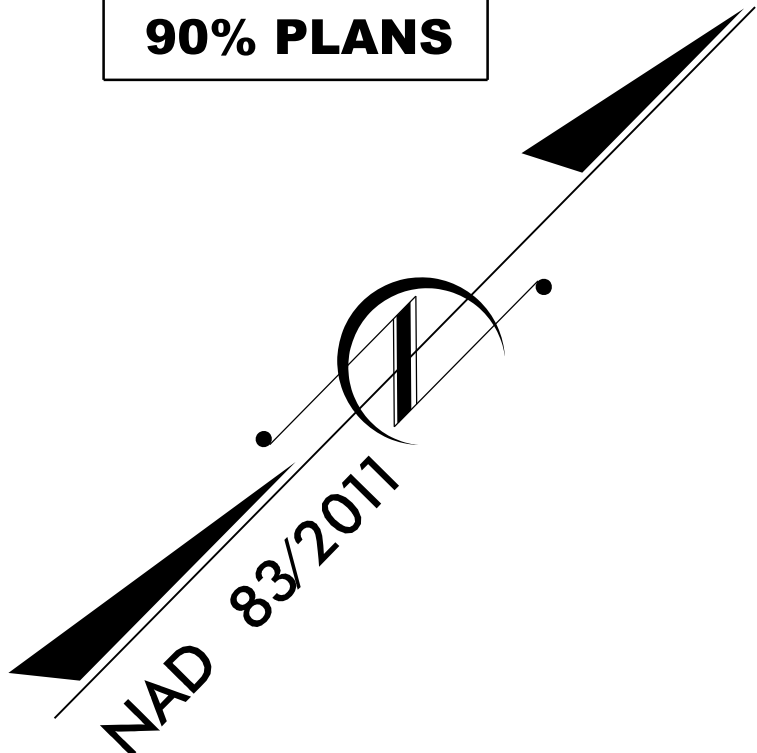
WILKES COUNTY

LOCATION: REPLACE BRIDGE NO. 4 ON SR 2418 (SOUTH WINDY GAP ROAD) OVER LITTLE HUNTING CREEK

TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND STRUCTURE

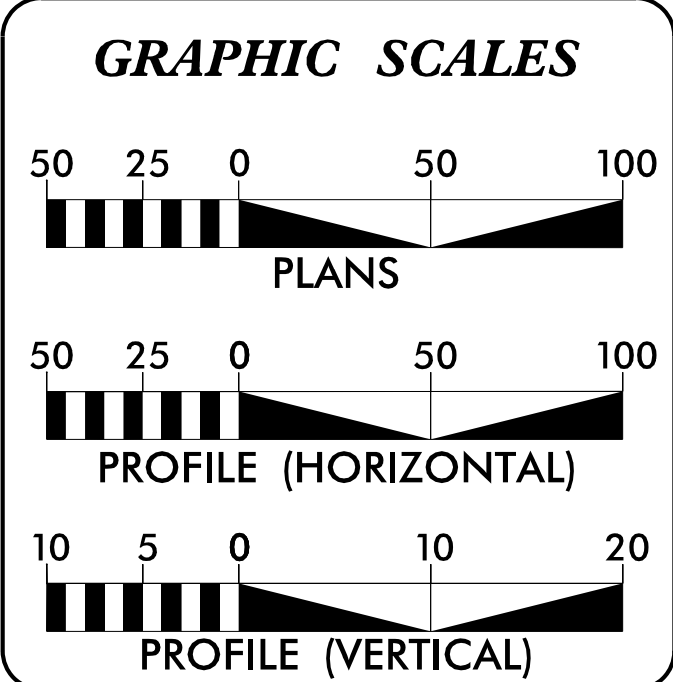
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	BR-0108	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
49216.1.1		PE	
49216.2.1		RW, UTIL.	
49216.3.1		CONST.	

90% PLANS



DESIGN EXCEPTION FOR DESIGN SPEED OF 30 MPH AND STOPPING SIGHT DISTANCE OF 20 MPH.

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



DESIGN DATA

ADT 2020 = 120
ADT 2045 = 240
V = 30 MPH
FUNC CLASS =
RURAL LOCAL
SUB REGIONAL TIER

PROJECT LENGTH

LENGTH ROADWAY PROJECT BR-0108 = 0.083 MILES
LENGTH STRUCTURE PROJECT BR-0108 = 0.014 MILES
TOTAL LENGTH PROJECT BR-0108 = 0.097 MILES

Plans Prepared By:

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

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
JUNE 25, 2020

LETTING DATE:
JULY 20, 2021

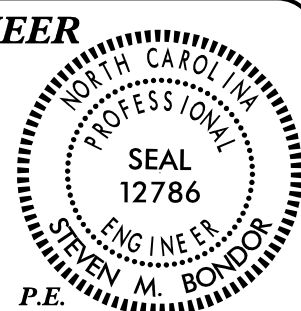
Plans Prepared For:
NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
1000 BIRCH RIDGE DRIVE
RALEIGH, NC 27610

DAVID STUTTS, PE
NCDOT PROJECT ENGINEER

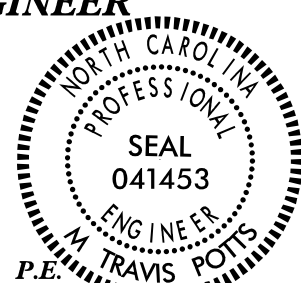
M. TRAVIS POTTS, PE
PROJECT ENGINEER

JUSTIN KUCZYNSKI, PE
PROJECT DESIGN ENGINEER

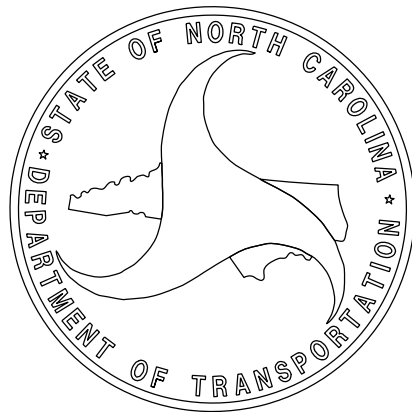
HYDRAULICS ENGINEER



SIGNATURE:
ROADWAY DESIGN ENGINEER



SIGNATURE:

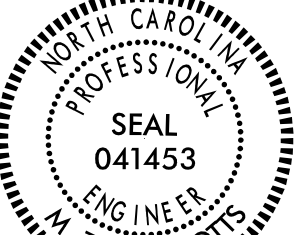
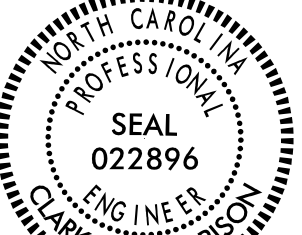


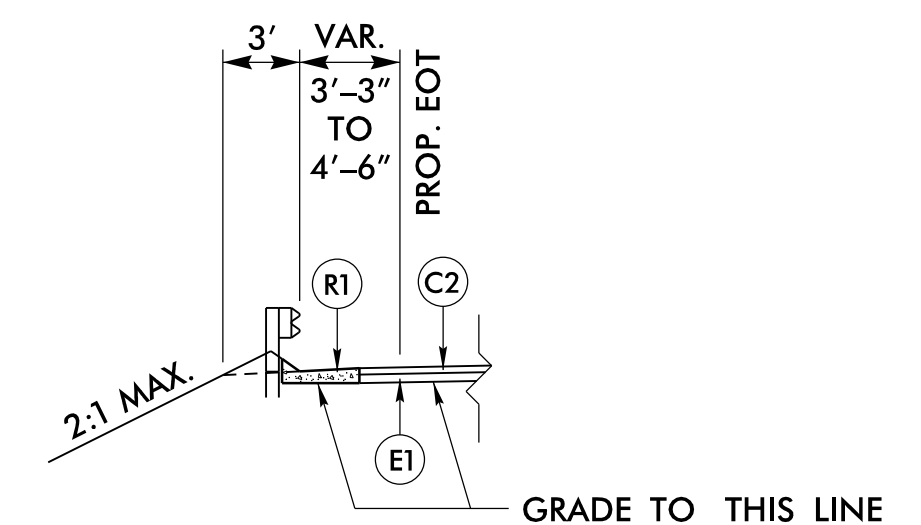
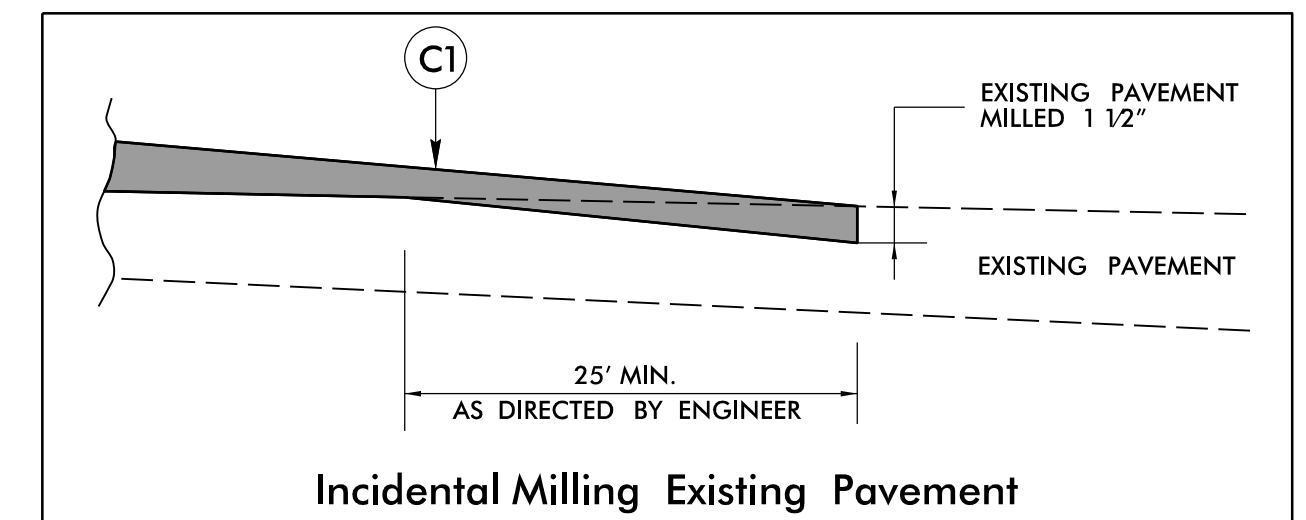
NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.



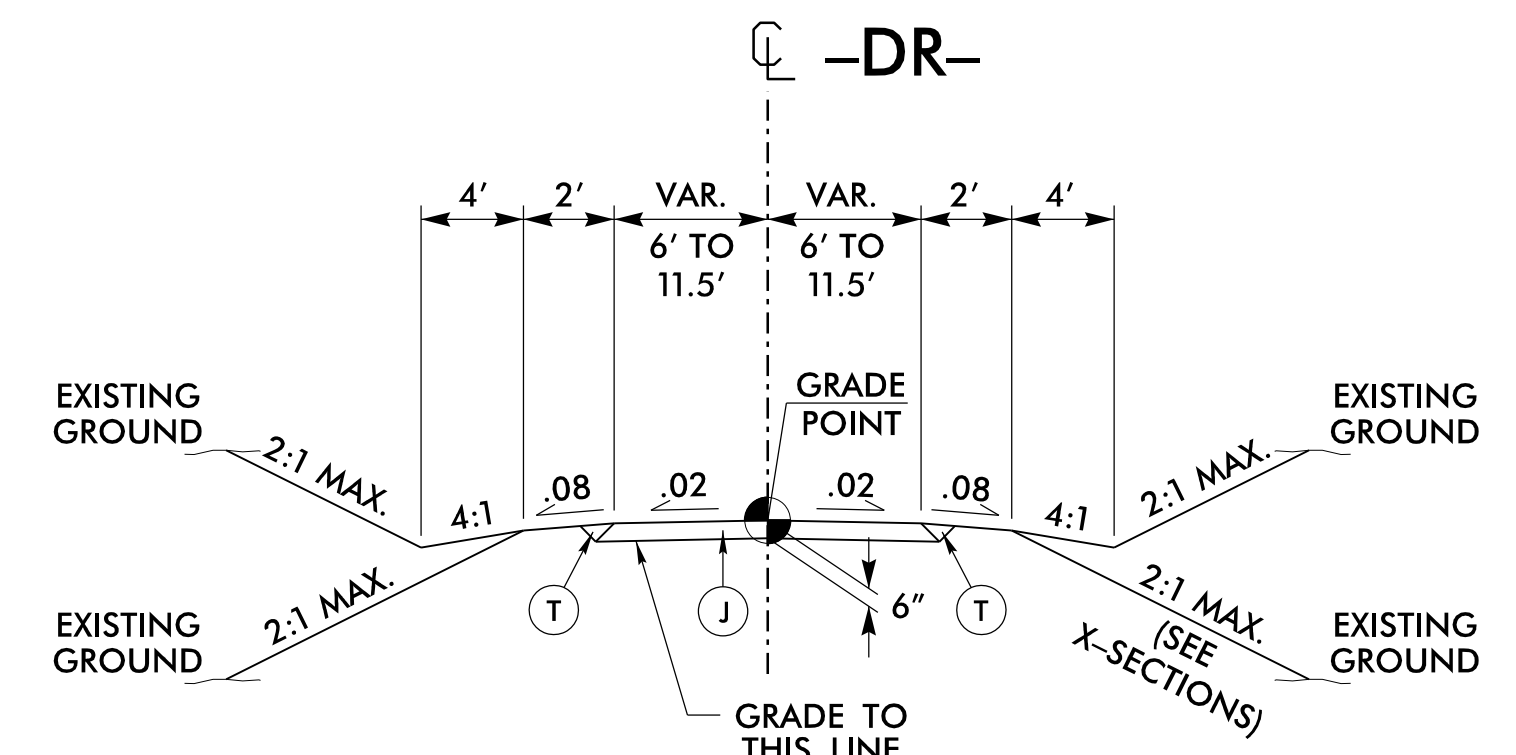
TYPICAL SECTION NO. 4



PROJECT REFERENCE NO.	SHEET NO.
BR-0108	2A-1
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
	
<p align="center">DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</p>	



-L STA. 17 + 60.00 TO -L STA. 17 + 78.77 LT
 -L STA. 17 + 78.04 TO -L STA. 17 + 83.04 RT
 -L STA. 18 + 72.95 TO -L STA. 18 + 77.95 RT
 -L STA. 18 + 77.23 TO -L STA. 18 + 82.23 LT

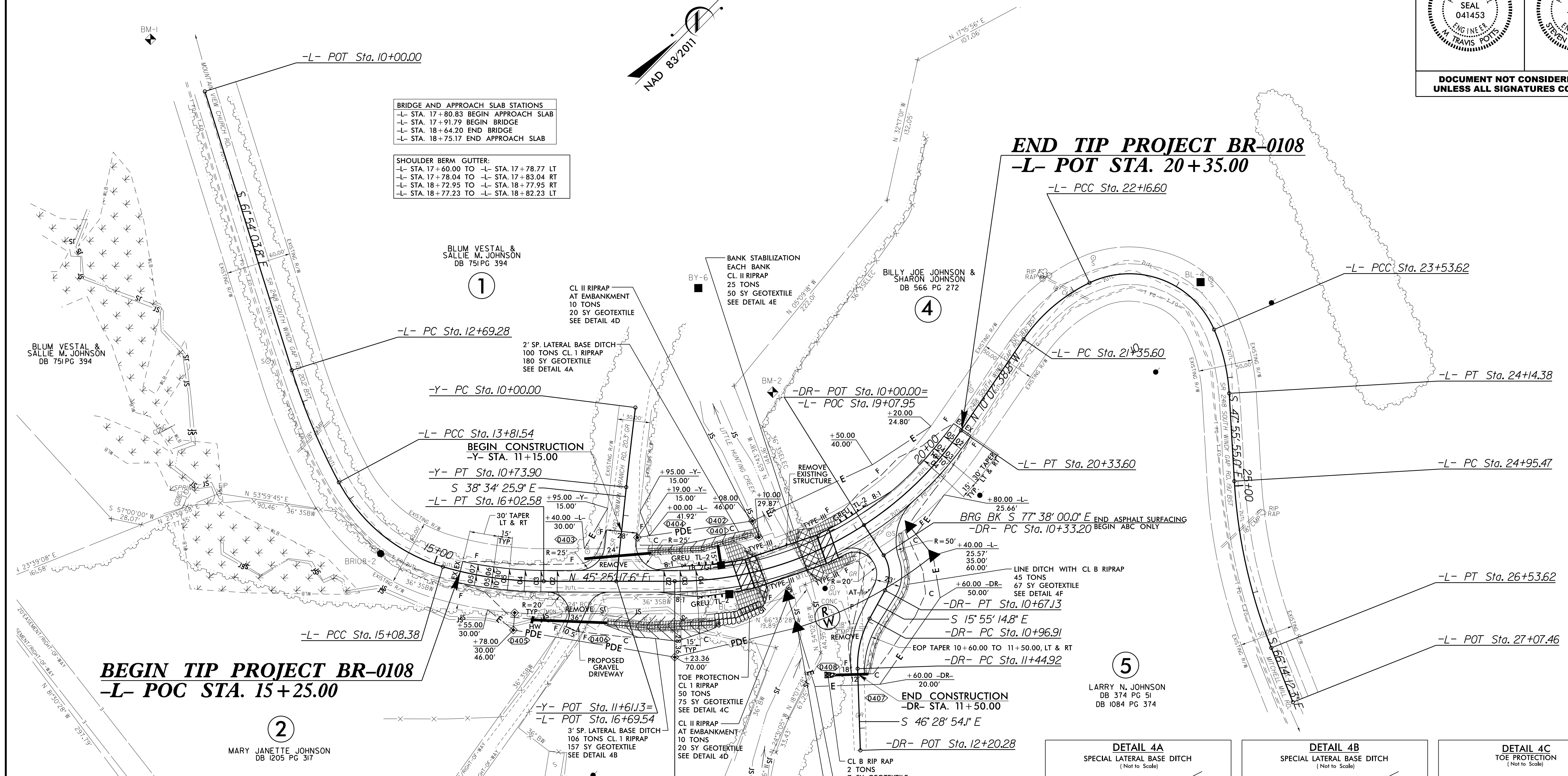


-DR- STA. 10+33.20 TO -DR- STA. 11+50.00



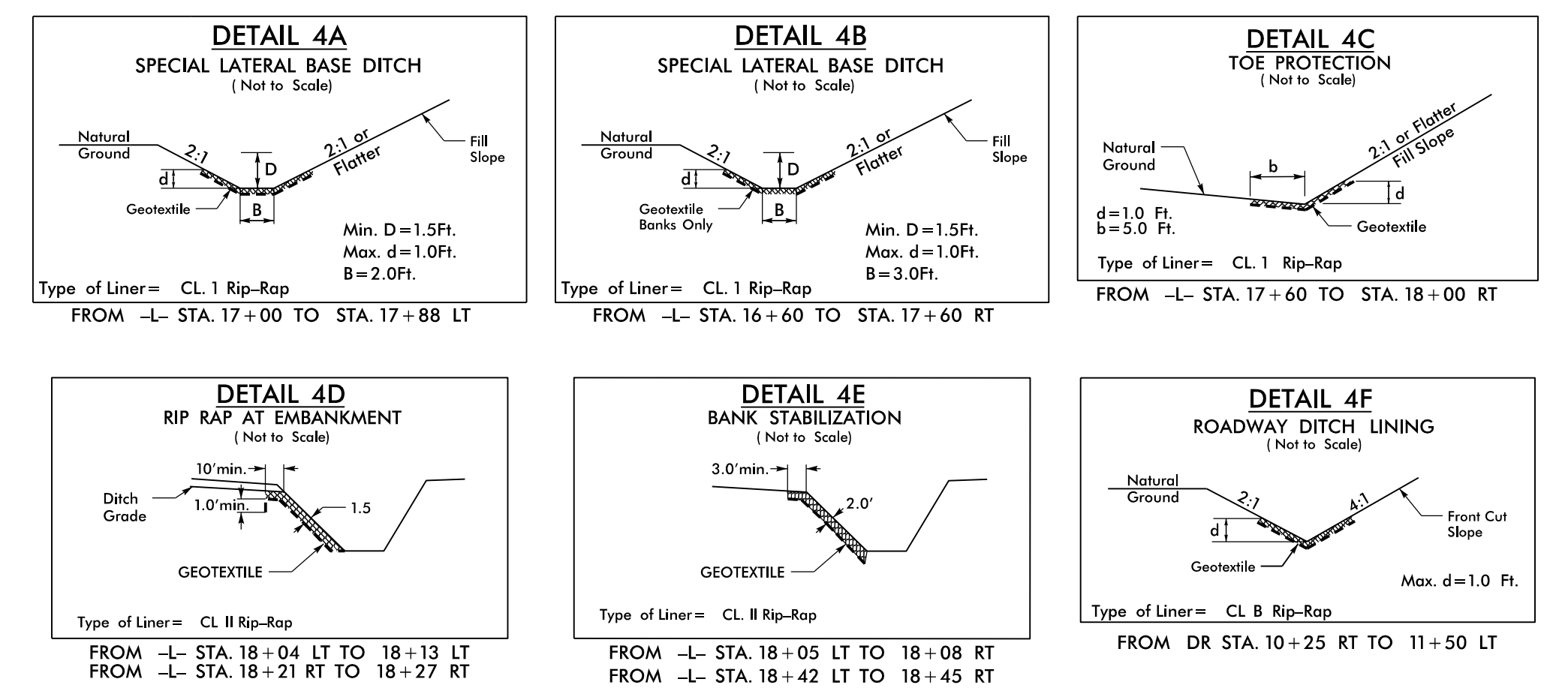
ms consultants, inc.
5444 Wake Park Blvd.
Suite 160
Raleigh, NC 27607
NC License Number : C-3239

PROJECT REFERENCE NO.		SHEET NO.
BR-0108		4
RW SHEET NO.		HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER		SEAL 12786
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		



-Y-	-DR-	
PI Sta 10+36.95 Δ = 1° 09' 29.6" (LT) D = 1° 34' 01.8" L = 73.90' T = 36.95' R = 3,656.00'	PI Sta 10+52.19 Δ = 6° 42' 45.2" (RT) D = 18° 53' 28.9" L = 33.93' T = 18.82' R = 31.50'	PI Sta 11+21.67 Δ = 30° 33' 39.3" (LT) D = 63° 39' 43.1" L = 48.00' T = 24.59' R = 90.00'

-L-							
PI Sta 13+25.58 Δ = 10° 54' 04.4" (LT) D = 9° 42' 40.1" L = 112.25' T = 56.30' R = 590.00'	PI Sta 14+48.50 Δ = 45° 25' 16.9" (LT) D = 35° 48' 35.5" L = 126.84' T = 66.96' R = 160.00'	PI Sta 15+55.80 Δ = 16° 21' 17.2" (LT) D = 17° 21' 44.5" L = 94.20' T = 47.42' R = 330.00'	PI Sta 18+91.89 Δ = 55° 32' 56.4" (LT) D = 17° 54' 17.8" L = 310.24' T = 168.53' R = 320.00'	PI Sta 21+77.05 Δ = 29° 56' 36.5" (RT) D = 36° 57' 54.1" L = 81.00' T = 41.45' R = 155.00'	PI Sta 23+05.18 Δ = 92° 21' 34.5" (RT) D = 67° 24' 24.5" L = 137.02' T = 88.57' R = 85.00'	PI Sta 23+84.31 Δ = 19° 53' 32.6" (RT) D = 32° 44' 25.6" L = 60.76' T = 30.69' R = 175.00'	PI Sta 25+75.23 Δ = 18° 18' 17.3" (LT) D = 11° 34' 29.7" L = 158.14' T = 79.75' R = 495.00'



SEE SHEET 5 FOR PROFILES
FOR STRUCTURE PLANS, SEE SHEET S-1 THRU S-14