ePCN

U.S. Army Corps of Engineers (USACE)

NATIONWIDE PERMIT PRE-CONSTRUCTION NOTIFICATION (PCN)

For use of this form, see 33 CFR 330; the proponent agency is CECW-CO-R.

Form Approved - OMB No. 0710-0003
Expires: 2027-10-31

DATA REQUIRED BY THE PRIVACY ACT OF 1974

Authority Rivers and Harbors Act, Section 10, 33 USC 403; Clean Water Act, Section 404, 33 USC 1344; Regulatory Program of the Corps of Engineers (Corps); Final Rule 33 CFR 320-332.

Principal Purpose Information provided on this form will be used in evaluating the nationwide permit pre-construction notification.

Routine Uses This information may be shared with the Department of Justice and other federal, state, and local government agencies, and the public and may be made available as part of the agency coordination process.

Disclosure Submission of requested information is voluntary, however, if information is not provided the permit application cannot be evaluated nor can

The public reporting burden for this collection of information, 0710-0003, is estimated to average 11 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or burden reduction suggestions to the Department of Defense, Washington Headquarters Services, at whs.mc-alex.esd.mbx.dd-dod-information-collections@mail.mil. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.

PLEASE DO NOT RETURN YOUR RESPONSE TO THE ABOVE EMAIL.

One set of original drawings or good reproducible copies which show the location and character of the proposed activity must be attached to this application (*see sample drawings and/or instructions*) and be submitted to the district engineer having jurisdiction over the location of the proposed activity. An application that is not completed in full will be returned.

(ITEMS 1 THRU 4 TO BE FILLED BY THE CORPS)

1. APPLICATION NO.	2. FIELD OFFICE CODE	3. DATE RECEIVED	4. DATE APPLICATION COMPLETE
		10/30/2026	

(ITEMS BELOW TO BE FILLED BY APPLICANT)

5. APPLICANT'S NAME	8. AUTHORIZED AGENT'S NAME AND TITLE (*agent is not required*)
First – Jeffrey Middle – Last – Hemphill	First – Middle – Last –
Company – NCDOT	Company –
Company Title –	E-mail Address –
E-mail Address – jlhemphill@ncdot.gov	
6. APPLICANT'S ADDRESS	**9. AGENT'S ADDRESS**
Address – 1000 Birch Ridge Dr	Address –
City – Raleigh State – NC ZIP – 27610 Country – US	City – State – ZIP – Country –
7. APPLICANT'S PHONE NOs. with AREA CODE	**10. AGENT'S PHONE NOs. with AREA CODE**
a. Business b. c. Fax	a. b. c. Fax
+19197076126	

STATEMENT OF AUTHORIZATION

11. I hereby authorize, to act in my behalf as my agent in the processing of this nationwide permit pre-construction notification and to furnish, upon request, supplemental information in support of this nationwide permit pre-construction notification.

SIGNATURE OF APPLICANT DATE

NAME, LOCATION, AND DESCRIPTION OF PROJECT OR ACTIVITY

12. PROJECT NAME or TITLE (*see instructions*)

BR-0018/NC 8 over US 52/Forsyth/Div 9/67018.1.1

NAME, LOCATION, AND DESCRIPTION OF PROJECT OR ACTIVITY

13. NAME OF WATERBODY, IF KNOWN (*if applicable*)

14. PROPOSED ACTIVITY STREET ADDRESS (*if applicable*)

Address: 5113 Germanton Rd

15. LOCATION OF PROPOSED ACTIVITY (*see instructions*)

Latitude: 36.1658153 °N Longitude: -80.2616866 °W

City: Winston Salem State: NC Zip: 27105

16. OTHER LOCATION DESCRIPTIONS, IF KNOWN (*see instructions*)

Section – Township – Range –

County – Forsyth County Project Area – 78.52467 Acres State Tax Parcel ID –

17. DIRECTIONS TO THE SITE

18. IDENTIFY THE SPECIFIC NATIONWIDE PERMIT(S) YOU PROPOSE TO USE

NWP 14 Linear Transportation Projects

19. DESCRIPTION OF PROPOSED NATIONWIDE PERMIT ACTIVITY (*see instructions*)

Project Description: The North Carolina Department of Transportation (NCDOT) proposes replacing Bridge No. 330048 on Germanton Road (NC 8) over US 52, within the city limits of Winston-Salem, in Forsyth County and NCDOT Division 9. Constructed in 1962, Bridge No. 330048 is located approximately 4.5 miles north of downtown Winston-Salem. The existing four-span, steel plate girder bridge is 293 feet long with a clear roadway width of approximately 28 feet, which includes two 12-foot travel lanes and approximately 2-foot paved shoulders. Staging the construction would minimize the impact footprint while also maintaining traffic across the structure during construction, which is anticipated to take approximately 24 months. The proposed two-span, prestressed concrete girder structure would be approximately 200 feet long. The use of retaining walls for the NC 8 replacement bridge provides a shorter structure length while still accommodating the future widening of US 52.

The lead federal agency is FHWA.

Nature of Activity: North Carolina Department of Transportation bridge replacement.

20. DESCRIPTION OF PROPOSED MITIGATION MEASURES (*see instructions*)

The proposed project roadway improvements will maintain the major drainage area patterns. Best management practices will be adhered to. 192' of Permanent impacts will be mitigated through NCDMS except for 44' of non mitigable bank stabilization and no mitigation will be requested for <0.01 acre permanent wetland

impacts due to the wetland's small size and low quality.

21. PURPOSE OF NATIONWIDE PERMIT ACTIVITY (*Describe the reason or purpose of the project, see instructions*)

The purpose of the proposed project is to replace a structurally deficient bridge.

22. QUANTITY OF WETLANDS, STREAMS, OR OTHER TYPES OF WATERS DIRECTLY AFFECTED BY PROPOSED NATIONWIDE PERMIT ACTIVITY (*see instructions*)

See Appendix B

Each PCN must include a delineation of wetlands, other special aquatic sites, and other waters, such as lakes and ponds, and perennial, intermittent, and ephemeral streams, on the project site.

23. List any other NWP(s), regional general permit(s), or individual permit(s) used or intended to be used to authorize any part of the proposed project or any related activity. (*see instructions*)

24. If the proposed activity will result in the loss of greater than 1/10-acre of wetlands and/or the loss of greater than 3/100-acre of stream bed and requires pre-construction notification, explain how the compensatory mitigation requirement in paragraph (c) and/or paragraph (d) of general condition 23 will be satisfied, or explain why the adverse environmental effects are no more than minimal and why compensatory mitigation should not be required for the proposed activity.

DMS will provide compensatory mitigation for the 192 linear feet of permanent fill impacts.

25. Is any portion of the nationwide permit activity already complete? ☐ Yes ☑ No

If Yes, describe the completed work:

26. List the name(s) of any species listed as endangered or threatened under the Endangered Species Act that might be affected by the proposed NWP activity or utilize the designated critical habitat that might be affected by the proposed NWP activity. (*see instructions*)

Schweinitz's sunflower,Tricolored bat,Monarch butterfly
ADDITIONAL AFFECTED SPECIES:
Bog turtle - survey not required.
Schweinitz's sunflower - surveys were conducted in 2021, 2024, and underway for 2026. No individuals identified during any survey - No Effect.
Tricolored bat - Section 7 will be resolved with the western bat PBO/PCO (see attached USFWS response letter).
Monarch butterfly - conclusion is not required as it is currently only proposed.

27. List any historic properties that have the potential to be affected by the proposed NWP activity or include a vicinity map indicating the location of the historic property or properties. (*see instructions*)

No Effect was indicated for Archaeological and Historic Properties and Landscapes.
See included Section 106 documentation

28. For a proposed NWP activity that will occur in a component of the National Wild and Scenic River System, or in a river officially designated by Congress as a "study river" for possible inclusion in the system while the river is in an official study status, identify the Wild and Scenic River or the "study river":

29. If the proposed NWP activity also requires permission from the Corps pursuant to 33 U.S.C. 408 because it will alter or temporarily or permanently occupy or

use a U.S. Army Corps of Engineers federally authorized civil works project, have you submitted a written request for section 408 permission from the Corps district having jurisdiction over that project? ☐ Yes ☑ No

If "yes", please provide the date your request was submitted to the Corps district:

30. If the terms of the NWP(s) you want to use require additional information to be included in the PCN, please include that information in this space or provide it on an additional sheet of paper marked Block 30. (*see instructions*)

31. Pre-construction notification is hereby made for one or more nationwide permit(s) to authorize the work described in this notification. I certify that the information in this pre-construction notification is complete and accurate. I further certify that I possess the authority to undertake the work described herein or am acting as the duly authorized agent of the applicant.

Jeffrey Hemphill	10/30/2026		
SIGNATURE OF APPLICANT	DATE	SIGNATURE OF AGENT	DATE

The pre-construction notification must be signed by the person who desires to undertake the proposed activity (applicant) and, if the statement in Block 11 has been filled out and signed, the authorized agent.

18 U.S.C. Section 1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly and willfully falsifies, conceals, or covers up any trick, scheme, or disguises a material fact or makes any false, fictitious or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statements or entry, shall be fined not more than $10,000 or imprisoned not more than five years or both.

Instructions for Preparing a

Department of the Army

Nationwide Permit (NWP) Pre-Construction Notification (PCN)

Blocks 1 through 4. To be completed by the Corps of Engineers.

Block 5. Applicant's Name. Enter the name and the e-mail address of the responsible party or parties. If the responsible party is an agency, company, corporation, or other organization, indicate the name of the organization and responsible officer and title. If more than one party is associated with the preconstruction notification, please attach a sheet of paper with the necessary information marked Block 5.

Block 6. Address of Applicant. Please provide the full address of the party or parties responsible for the PCN. If more space is needed, attach an extra sheet of paper marked Block 6.

Block 7. Applicant's Telephone Number(s). Please provide the telephone number where you can usually be reached during normal business hours.

Blocks 8 through 11. To be completed, if you choose to have an agent.

Block 8. Authorized Agent's Name and Title. Indicate name of individual or agency, designated by you, to represent you in this process. An agent can be an attorney, builder, contractor, engineer, consultant, or any other person or organization. Note: An agent is not required.

Blocks 9 and 10. Agent's Address and Telephone Number. Please provide the complete mailing address of the agent, along with the telephone number where he / she can be reached during normal business hours.

Block 11. Statement of Authorization. To be completed by the applicant, if an agent is to be employed.

Block 12. Proposed Nationwide Permit Activity Name or Title. Please provide a name identifying the proposed NWP activity, e.g., Windward Marina, Rolling Hills Subdivision, or Smith Commercial Center.

Block 13. Name of Waterbody. Please provide the name (if it has a name) of any stream, lake, marsh, or other waterway to be directly impacted by the NWP activity. If it is a minor (no name) stream, identify the waterbody the minor stream enters.

Block 14. Proposed Activity Street Address. If the proposed NWP activity is located at a site having a street address (not a box number), please enter it in Block 14.

Block 15. Location of Proposed Activity. Enter the latitude and longitude of where the proposed NWP activity is located. Indicate whether the project location provided is the center of the project or whether the project location is provided as the latitude and longitude for each of the "corners" of the project area requiring evaluation. If there are multiple sites, please list the latitude and longitude of each site (center or corners) on a separate sheet of paper and mark as Block 15.

Block 16. Other Location Descriptions. If available, provide the Tax Parcel Identification number of the site, Section, Township, and Range of the site (if known), and / or local Municipality where the site is located.

Block 17. Directions to the Site. Provide directions to the site from a known location or landmark. Include highway and street numbers as well as names. Also provide distances from known locations and any other information that would assist in locating the site. You may also provide a description of the location of the proposed NWP activity, such as lot numbers, tract numbers, or you may choose to locate the proposed NWP activity site from a known point (such as the right descending bank of Smith Creek, one mile downstream from the Highway 14 bridge). If a large river or stream, include the river mile of the proposed NWP activity site if known. If there are multiple locations, please indicate directions to each location on a separate sheet of paper and mark as Block 17.

Block 18. Identify the Specific Nationwide Permit(s) You Propose to Use. List the number(s) of the Nationwide Permit(s) you want to use to authorize the proposed activity (e.g., NWP 29).

Block 19. Description of the Proposed Nationwide Permit Activity. Describe the proposed NWP activity, including the direct and indirect adverse environmental effects the activity would cause. The description of the proposed activity should be sufficiently detailed to allow the district engineer to determine that the adverse environmental effects of the activity will be no more than minimal. Identify the materials to be used in construction, as well as the methods by which the work is to be done.

Provide sketches when necessary to show that the proposed NWP activity complies with the terms of the applicable NWP(s). Sketches usually clarify the activity and result in a quicker decision. Sketches should contain sufficient detail to provide an illustrative description of the proposed NWP activity (e.g.,a conceptual plan), but do not need to be detailed engineering plans.

The written descriptions and illustrations are an important part of the application. Please describe, in detail, what you wish to do. If more space is needed, attach an extra sheet of paper marked Block 19.

Block 20. Description of Proposed Mitigation Measures. Describe any proposed mitigation measures intended to reduce the adverse environmental effects caused by the proposed NWP activity. The description of any proposed mitigation measures should be sufficiently detailed to allow the district engineer to determine that the adverse environmental effects of the activity will be no more than minimal and to determine the need for compensatory mitigation or additional mitigation measures.

Block 21. Purpose of Nationwide Permit Activity. Describe the purpose and need for the proposed NWP activity. What will it be used for and why? Also include a brief description of any related activities associated with the proposed project. Provide the approximate dates you plan to begin and complete all work.

Block 22. Quantity of Wetlands, Streams, or Other Types of Waters Directly Affected by the Proposed Nationwide Permit Activity. For discharges of dredged or fill material into waters of the United States, provide the amount of wetlands, streams, or other types of waters filled, flooded, excavated, or drained by the proposed NWP activity. For structures or work in navigable waters of the United States subject to Section 10 of the Rivers and Harbors Act of 1899, provide the amount of navigable waters filled, dredged, or occupied by one or more structures (e.g., aids to navigation, mooring buoys) by the proposed NWP activity.

For multiple NWPs, or for separate and distant crossings of waters of the United States authorized by NWPs 12 or 14, attach an extra sheet of paper marked Block 21 to provide the quantities of wetlands, streams, or other types of waters filled, flooded, excavated, or drained (or dredged or occupied by structures, if in waters subject to Section 10 of the Rivers and Harbors Act of 1899) for each NWP. For NWPs 12 and 14, include the amount of wetlands, streams, or other types of waters filled, flooded, excavated, or drained for each separate and distant crossing of waters or wetlands. If more space is needed, attach an extra sheet of paper marked Block 22.

Block 23. Identify Any Other Nationwide Permit(s), Regional General Permit(s), or Individual Permit(s) Used to Authorize Any Part of Proposed Activity or Any Related Activity. List any other NWP(s), regional general permit(s), or individual permit(s) used or intended to be used to authorize any part of the proposed project or any related activity. For linear projects, list other separate and distant crossings of waters and wetlands authorized by NWPs 12 or 14 that do not require PCNs. If more space is needed, attach an extra sheet of paper marked Block 23.

Block 24. Compensatory Mitigation Statement for Losses of Greater Than 1/10-Acre of Wetlands and/or of Greater Than 3/100-Acre of Stream Bed When Pre-Construction Notification is Required. Paragraphs (c) and (d) of NWP general condition 23 require compensatory mitigation at a minimum one-for-one replacement ratio for all wetland losses that exceed 1/10-acre and/or for all losses of stream bed that exceed 3/100-acre, unless the district engineer determines in writing that either some other form of mitigation is more environmentally appropriate or the adverse environmental effects of the proposed NWP activity are no more than minimal without compensatory mitigation, and provides an activity-specific waiver of this requirement. Describe the proposed compensatory mitigation for wetland losses greater than 1/10 acre and/or for losses of stream bed that exceed 3/100-acre, or provide an explanation of why the district engineer should not require wetland and/or stream compensatory mitigation for the proposed NWP activity. If more space is needed, attach an extra sheet of paper marked Block 24.

Block 25. Is Any Portion of the Nationwide Permit Activity Already Complete? Describe any work that has already been completed for the NWP activity.

Block 26. List the Name(s) of Any Species Listed As Endangered or Threatened under the Endangered Species Act that Might be Affected by the Nationwide Permit Activity. If you are not a federal agency, and if any listed species or designated critical habitat might be affected or is in the vicinity of the proposed NWP activity, or if the proposed NWP activity is located in designated critical habitat, list the name(s) of those endangered or threatened species that might be affected by the proposed NWP activity or utilize the designated critical habitat that might be affected by the proposed NWP activity. If you are a Federal agency, and the proposed NWP activity requires a PCN, you must provide documentation demonstrating compliance with Section 7 of the Endangered Species Act.

Block 27. List Any Historic Properties that Have the Potential to be Affected by the Nationwide Permit Activity. If you are not a Federal agency, and if any historic properties have the potential to be affected by the proposed NWP activity, list the name(s) of those historic properties that have the potential to be affected by the proposed NWP activity. If you are a Federal agency, and the proposed NWP activity requires a PCN, you must provide documentation demonstrating compliance with Section 106 of the National Historic Preservation Act.

Block 28. List the Wild and Scenic River or Congressionally Designated Study River if the Nationwide Permit Activity Would Occur in such a River. If the proposed NWP activity will occur in a river in the National Wild and Scenic River System or in a river officially designated by Congress as a "study river" under the Wild and Scenic Rivers Act, provide the name of the river. For a list of Wild and Scenic Rivers and study rivers, please visit http://www.rivers.gov/.

Block 29. Nationwide Permit Activities that also Require Permission from the Corps Under 33 U.S.C. 408. If the proposed NWP activity also requires permission from the Corps under 33 U.S.C. 408 because it will temporarily or permanently alter, occupy, or use a Corps federal authorized civil works project, indicate whether you have submitted a written request for section 408 permission from the Corps district having jurisdiction over that project.

Block 30. Other Information Required For Nationwide Permit Pre Construction Notifications. The terms of some of the Nationwide Permits include additional information requirements for preconstruction notifications:

* NWP 3, Maintenance –information regarding the original design capacities and configurations of the outfalls, intakes, small impoundments, and canals.
* NWP 31, Maintenance of Existing Flood Control Facilities –a description of the maintenance baseline and the dredged material disposal site.
* NWP 33, Temporary Construction, Access, and Dewatering –a restoration plan showing how all temporary fills and structures will be removed and the area restored to pre project conditions.
* NWP 44, Mining Activities –if reclamation is required by other statutes, then a copy of the final reclamation plan must be submitted with the pre construction notification.
* NWP 45, Repair of Uplands Damaged by Discrete Events –documentation, such as a recent topographic survey or photographs, to justify the extent of the proposed restoration.
* NWP 48, Commercial Shellfish Aquaculture Activities –(1) a map showing the boundaries of the project area, with latitude and longitude coordinates for each corner of the project area; (2) the name(s) of the species that will be cultivated during the period this NWP is in effect; (3) whether canopy predator nets will be used; (4) whether suspended cultivation techniques will be used; and (5) general water depths in the project area (a detailed survey is not required).
* NWP 49, Coal Remining Activities –a document describing how the overall mining plan will result in a net increase in aquatic resource functions must be submitted to the district engineer and receive written authorization prior to commencing the activity.
* NWP 50, Underground Coal Mining Activities –if reclamation is required by other statutes, then a copy of the reclamation plan must be submitted with the pre construction notification.

If more space is needed, attach an extra sheet of paper marked Block 30.

Block 31. Signature of Applicant or Agent. The PCN must be signed by the person proposing to undertake the NWP activity, and if applicable, the authorized party (agent) that prepared the PCN. The signature of the person proposing to undertake the NWP activity shall be an affirmation that the party submitting the PCN possesses the requisite property rights to undertake the NWP activity (including compliance with special conditions, mitigation, etc.).

DELINEATION OF WETLANDS, OTHER SPECIAL AQUATIC SITES, AND OTHER WATERS

Each PCN must include a delineation of wetlands, other special aquatic sites, and other waters, such as lakes and ponds, and perennial, intermittent, and ephemeral streams, on the project site. Wetland delineations must be prepared in accordance with the current wetland delineation manual and regional supplement published by the Corps. The permittee may ask the Corps to delineate the special aquatic sites and other waters on the project site, but there may be a delay if the Corps does the delineation, especially if the project site is large or contains many wetlands, other special aquatic sites, and other waters. The 45 day PCN review period will not start until the delineation is submitted or has been completed by the Corps.

DRAWINGS AND ILLUSTRATIONS

General Information.

Three types of illustrations are needed to properly depict the work to be undertaken. These illustrations or drawings are identified as a Vicinity Map, a Plan View or a Typical Cross Section Map. Identify each illustration with a figure or attachment number. For linear projects (e.g. roads, subsurface utility lines, etc.) gradient

drawings should also be included. Please submit one original, or good quality copy, of all drawings on 8½x11 inch plain white paper (electronic media may be substituted). Use the fewest number of sheets necessary for your drawings or illustrations. Each illustration should identify the project, the applicant, and the type of illustration (vicinity map, plan view, or cross section). While illustrations need not be professional (many small, private project illustrations are prepared by hand), they should be clear, accurate, and contain all necessary information.

ADDITIONAL INFORMATION AND REQUIREMENTS

For proposed NWP activities that involve discharges into waters of the United States, water quality certification from the State, Tribe, or EPA must be obtained or waived (see NWP general condition 25). Some States, Tribes, or EPA have issued water quality certification for one or more NWPs. Please check the appropriate Corps district web site to see if water quality certification has already been issued for the NWP(s) you wish to use. For proposed NWP activities in coastal states, state Coastal Zone Management Act consistency concurrence must be obtained, or a presumption of concurrence must occur (see NWP general condition 26). Some States have issued Coastal Zone Management Act consistency concurrences for one or more NWPs. Please check the appropriate Corps district web site to see if Coastal Zone Management Act consistency concurrence has already been issued for the NWP(s) you wish to use.

Appendix C. Impact Inventory:

Water Name	*Impact Name*	*Activity*	*Type of Material Being Discharged*	*Resource Type*	*Permanent Loss (Y/N)*	*Impact Duration*	*Amount Type*	*Proposed Length*	*Proposed Width*	*Proposed Amount*	*Amount Units*
Wetland B	Site 1 Roadway Fill	Discharge of fill material	Soil	Non-Tidal Wetland	Yes	Permanent	Fill Area			0.01	Acres
Leak Fork	Site 2 Culvert Extension	Discharge of fill material	Culvert	River/Stream	Yes	Permanent	Fill Area	31	1	31	Square Feet
Leak Fork	Site 2A Dewatering	Discharge of fill material	Rock/Soil	River/Stream	No	Temporary	Fill Area	50	12	0.013774	Acres
Leak Fork	Site 2B Channel Stabilization	Discharge of fill material	Rock	River/Stream	Yes	Permanent	Fill Area	110	12	1320	Square Feet
Leak Fork	Site 2C Channel relocation	Discharge of fill material	Rock/Soil	River/Stream	Yes	Permanent	Fill Area	51	12	0.01405	Acres
Leak Fork	Site 2D Bank Stabilization	Discharge of fill material	Rock	River/Stream	No	Permanent	Fill Area	22	1	22	Square Feet
SB	Site 3 Bank Stabilization	Discharge of fill material	Rock	River/Stream	Yes	Permanent	Fill Area	22	1	22	Square Feet
SB	Site 3 Bank Stabilization	Discharge of fill material	Rock	River/Stream	No	Temporary	Fill Area	16	1	0.000367	Acres

Provide any additional information you may have about the proposed quantity of wetlands, streams, or other types of waters directly affected by the proposed activity. This level of detail is helpful to better understand the type of impacts that are proposed for your project.

The North Carolina Department of Transportation (NCDOT) proposes to replace Bridge No. 330048 on NC 8 (Germanton Rd) over US 52 (STIP BR0018) in Forsyth County. The proposed design will widen NC 8 within the project limits. As a result of the bridge and roadway widening, the existing box culvert on NC 8 at Leak Fork will need to be lengthened and Leak fork will be relocated. The results of this action will be 236' of permanent impacts including 44' of bank stabilization; 0.02 acre of temporary impacts; and <0.01 acre of permanent wetland impacts.

Appendix D-1. Compensatory Mitigation Inventory for Mitigation Banks/in Lieu Fee (ILF) Program:

Mitigation Entry Name	*Mitigation Type*	*Name*	*Credit Unit*	*Proposed Credit Amount*
Leak Fork	In-lieu Fee		Linear Feet Based	192

Appendix H. Supporting Information:

Document Type	*Document Created Date (YYYY-MM-DD)*	*Document Label*	*Information Source/Citation*	*Uploaded file name*
Historic Properties Cultural Resources Information	2026-10-23	BR-0018 Tribal Coordination - Catawba Response	NCDOT	BR-0018 - Catawba Tribal Approval Letter_2024-10-15.pdf
Maps Plans Plots or Plats	2026-10-23	BR-0018 Permit Drawings	NCDOT	BR-0018 Final Permit Drawings.pdf
Other Information	2026-10-23	BR-0018 Categorical Exclusion	NCDOT	BR-0018 Forsyth 48_CE.pdf
Historic Properties Cultural Resources Information	2026-10-23	BR-0018 Historic Architecture	NCDOT	BR-0018 Hist Arch.pdf
Mitigation Plan	2026-10-27	BR-0018 DMS Mitigation Accceptance Letter	NCDOT	DMS Acceptance Letter_BR-0018.pdf
Historic Properties Cultural Resources Information	2026-10-23	BR-0018 Archaeology	NCDOT	Structure 330048 Forsyth No Archaeological Survey Required Form.pdf
Threatened Endangered Species Report	2026-10-23	BR-0018 western bat PBO response letter from USFWS	NCDOT	WNC Bat PBO Response Letter Submittal 18.pdf

U.S. Army Corps of Engineers (USACE)

APPLICATION FOR DEPARTMENT OF THE ARMY PERMIT – PARTNER APPENDIX

For use of this form, see 33 CFR 325. The proponent agency is CECW-COR.

AUTHORITIES: The Department of Army Corps of Engineers (Corps) and partner entities have established a joint process for activities impacting jurisdictional waterways that require review and/or approval of both the Corps and its partners. Department of Army permits are required by Section 10 of the Rivers & Harbors Act of 1899 for any structure(s) or work in or affecting navigable waters of the United States and by Section 404 of the Clean Water Act for the discharge of dredged or fill materials into waters of the United States, including adjacent wetlands. This supplemental information is provided to the partner entity along with the standard regulatory forms.

PARTNER INFORMATION

ORGANIZATION:	**PARTNER ID:**	**NAME AND CODE:**
NC Division of Water Resources (DWR)		**Form Name**: NATIONWIDE/GENERAL/INDIVIDUAL PERMIT - DWR 401 Application Form NC Division of Water Resources Application Information **Form Code**: NCDWR 401

In North Carolina, many activities covered by Nationwide and Regional General Permits, as well as Individual Permits, also require a 401 Water Quality Certification from the Division of Water Resources. To streamline the application process for both the U.S. Army Corps of Engineers (USACE) and the North Carolina Division of Environmental Quality (NCDEQ) - Division of Water Resources (DWR), we have collaborated on this joint application form.

This joint application form serves to fulfill reporting requirements for both agencies under Sections 401 and 404 of the Clean Water Act, and Section 10 of the Rivers and Harbor Act of 1899, for specific activities permitted through Nationwide Permits (NWPs), Regional General Permits (RGPs), and Individual Permits. The RRS is now the preferred method for submitting application information for these permits.

For questions, please contact the USACE at (910) 251-4633.

The Wilmington District and the North Carolina Department of Environmental Quality (NCDEQ) have collaborated to develop a Joint Permit Application (JPA) within the Regulatory Request System (RRS) for use with Nationwide Permits (NWP) and Regional General Permits (RGP), as well as, Individual Permits. This system functions similarly to previous versions of the Pre-Construction Notification form (also known as e-PCN). The RRS is an online platform that enables applicants to electronically upload and submit all required information to the reviewing agencies.

The RRS JPA fulfills the application and reporting requirements for both the U.S. Army Corps of Engineers (USACE) and NCDEQ for activities authorized under Sections 401 and 404 of the Clean Water Act, as well as Section 10 of the Rivers and Harbors Act of 1899.

Projects that fall within the North Carolina Division of Coastal Manangement (NCDCM) review area, will need to coordinate their application with NCDCM directly. To learn more, visit the [NCDCM website](https://www.deq.nc.gov/about/divisions/division-coastal-management).

USACE/NCDWR Joint Application Form for Nationwide Permits, Regional General Permits, and Individual Permits (along with corresponding Water Quality Certifications)

PLEASE NOTE: THE SYSTEM IS STILL UNDER DEVELOPMENT, AND DATA CURRENTLY DOES NOT TRANSMIT ELECTRONICALLY TO NCDEQ'S DIVISION OF WATER RESOURCES (DWR). UNTIL FURTHER NOTICE, APPLICANTS MUST SUBMIT COMPLETED RRS JPA DOCUMENTS THROUGH [NCDEQ'S "PROJECT SUBMITTAL INTERIM FORM" WEBSITE](https://edocs.deq.nc.gov/Forms/Supplemental-Information-Form).
[Additional Instructions](https://edocs.deq.nc.gov/WaterResources/Browse.aspx?dbid=0&startid=3890140)

SUPPLEMENTAL INFORMATION COLLECTED

ADDITIONAL CONTACT INFORMATION - Property Owner

- Is the owner the same as the applicant?
  - Yes

- Provide Primary Property Owner information
    - Not Applicable (Question not presented)

- Provide Additional Property Owner information
    - Unanswered

PROCESSING INFORMATION -

- Does the 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)?
    - No

- Is this project connected with (American Rescue Plan Act) ARPA funding or S.L. 2023-134 (earmark)?
    - No

- Please select:
    - Not Applicable (Question not presented)

- Please provide the DWI ARPA Funding Project Number (ie: SRP-W-ARP-1234 or SRP-W-134-1234):
  *The DWI Funding Project number can be located on the "Letter of Intent to Fund" (LOIF) or "Offer and Acceptance Letter". If you do not know your DWI project #, please contact your DWI project manager or fund recipient (e.g., LGU).
    - Not Applicable (Question not presented)

- Is this a NC Division of Mitigation Services (NCDMS) Project? Note - Select Yes only if NCDMS is the applicant/co-applicant.
    - No

- Is this project a public transportation project?
    - Yes

- Is this a NC Department of Transportation (NCDOT) project?
    - Yes

- (NCDOT only) T.I.P. (Transportation Improvement Program) or state project number:
    - BR-0018

- (NCDOT only) WBS #
    - 67018.1.1

- Application for NC Division of Water Resources (DWR) Certification.
  Type(s) of approval sought from the DWR? (Select all that apply)
    - 401 Water Quality Certification

- Is this a modification OR new project with existing ID?
    - No

- Please provide the DWR ID number.
    - Not Applicable (Question not presented)

- Is the project located in any of NC's twenty coastal counties?
    - No

- Is the project located within a NC Division of Coastal Management (DCM) Area of Environmental Concern (AEC)?
    - Not Applicable (Question not presented)

- Is the project located in a designated trout watershed? [Learn more about Trout](https://www.saw.usace.army.mil/Missions/Regulatory-Permit-Program/Agency-Coordination/Trout.aspx)
    - No

- If yes, attach a copy of existing correspondence from the Wildlife Resource Commission Office.
    - Not Applicable (Question not presented)

WATERS DETAILS -

- Name of nearest waterbody? [Surface Water Lookup](https://experience.arcgis.com/experience/7073e9122ab74588b8c48ded34c3df55/)
    - Leak Fork

- Does the proposed activity impact perennial or intermittent streams?
    - Yes

- Please ensure that the Aquatic Resource Inventory section includes all perennial and intermittent streams and be sure to identify them with appropriate Cowardin codes.
  (Click the Aquatic Resources Inventory in the menu on the left to navigate to that section.)

  Note: Use the Cowardin Code "R2 or R3" for perennial. Use Cowardin Code "R4" for intermittent.
  If no code provided, waters will be assumed to be perennial.

NON-JD IMPACT DETAILS - NOTE: Questions only appear in this section when 'Non-404 Jurisdictional Waters Permit' has been included among the Type(s) of approval sought from the DWR.

- Will the project result in impacts to Non-404 JD waters?
    - Not Applicable (Question not presented)

- Please ensure that the associated Non-404 Jurisdictional Waters have been entered in the Aquatic Resource Inventory section of the Permit Application. Use the Aquatic Resource Type of "DELIN.NOJD-404".
  (Click the "Aquatic Resources Inventory" option in the menu on the left to navigate to that section.)

BUFFER IMPACTS AND MITIGATION SUMMARY - Additional impacts and mitigation not previously covered in this application: Buffers

- Will project occur in an area subject to state riparian buffer regulations?
    - No

- Will project result in any impacts within a protected riparian buffer?
    - Not Applicable (Question not presented)

- Which protected basin(s) is the project located within?

- Not Applicable (Question not presented)

- Other Protected Basin
  - Not Applicable (Question not presented)

- Are the buffer regulations implemented by a delegated local government?
  - Not Applicable (Question not presented)

- Please specify which local government.
  - Not Applicable (Question not presented)

- Impact Details
  - Not Applicable (Question not presented)

- Total Temporary Buffer Impacts
  - Not Applicable (Question not presented)

- Total Permanent Buffer Impacts
  - Not Applicable (Question not presented)

- Total Combined Buffer Impacts
  - Not Applicable (Question not presented)

- Will the project result in an impact within a protected riparian buffer that requires buffer mitigation?
  - Not Applicable (Question not presented)

- If yes, you must fill out this entire section - please contact DWR for more information.
  Identify the square feet of impact to each zone of the riparian buffer that requires mitigation. Calculate the amount of mitigation required in the table below.
  - Not Applicable (Question not presented)

- How is buffer mitigation proposed to be met?
  - Not Applicable (Question not presented)

- If payment to mitigation bank or NCDMS, attach a valid statement of availability or DMS acceptance letter. OR Attach mitigation plan for review.
  - Not Applicable (Question not presented)

STORMWATER MANAGEMENT PLAN -

- Does this project disturb >1 acre of land?
  - Yes

- Is this an NCDOT project subject to compliance with NCDOT's Individual NPDES permit NCS000250?
  - Yes

- Is this project subject to review and approval under a state post-construction stormwater program (DEMLR) or state-approved local government stormwater program?
  - Not Applicable (Question not presented)

- What entity has reviewed/is reviewing the Stormwater Management Plan?

- Not Applicable (Question not presented)

- What is the Stormwater Management Plan status?
  - Not Applicable (Question not presented)

- Does this project meet the requirements for low density projects as defined in 15A NCAC 02H.1003(2)? For details on how Low Density Projects are characterized, click the help icon.
  - Not Applicable (Question not presented)

- For low density projects, submit documentation including built-upon area (BUA) delineation, percent BUA calculations, stormwater drainage plan, and designs for vegetated conveyances.
  - Not Applicable (Question not presented)

- For all High Density projects submit a Stormwater Management Plan that includes stormwater control measures for water quality treatment.
  - Not Applicable (Question not presented)

STORMWATER MANAGEMENT IN BUFFERED BASINS - All stormwater generated from high ground within regulated buffer basins must be in compliance with the stormwater management requirements of the applicable buffer rules.

NOTE: Questions only appear in this section when 'Will project occur in an area subject to state riparian buffer regulations?' is answered Yes.

- Does the project comply with the stormwater management requirements of the applicable buffer rules?
  - Not Applicable (Question not presented)

- Please explain why the project does not comply.
  - Not Applicable (Question not presented)

ENVIRONMENTAL DOCUMENTATION -

- Is an environmental document required under NCEPA (01 NCAC 25 .0100)?
  - No

- Has the document review been finalized by the State Clearing House?
  - Not Applicable (Question not presented)

- Comments
  - Not Applicable (Question not presented)

- Attach a copy of the SEPA final approval document.
  - Not Applicable (Question not presented)

VIOLATIONS -

- 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)?
  - No

- Please explain.
    - Not Applicable (Question not presented)

CUMULATIVE IMPACTS -

- Will this project (based on past and reasonably anticipated future impacts) result in additional development?
    - No

- Provide a qualitative or quantitative cumulative impact analysis in accordance with the most recent DWR policy. [Learn more about Cumulative Impact Policy](https://files.nc.gov/ncdeq/Water%20Quality/Surface%20Water%20Protection/401/Policies_Guides_Manuals/CumulativeImpactPolicy.pdf)
    - Not Applicable (Question not presented)

- If not, provide a short narrative description.
    - Due to the minimal transportation impact resulting from this bridge replacement, this project will neither influence nearby land uses nor stimulate growth.

PLEASE NOTE: THE SYSTEM IS STILL UNDER DEVELOPMENT, AND DATA CURRENTLY DOES NOT TRANSMIT ELECTRONICALLY TO NCDEQ'S DIVISION OF WATER RESOURCES (DWR). UNTIL FURTHER NOTICE, APPLICANTS MUST SUBMIT COMPLETED RRS JPA DOCUMENTS THROUGH [NCDEQ'S "PROJECT SUBMITTAL INTERIM FORM" WEBSITE](https://edocs.deq.nc.gov/Forms/Supplemental-Information-Form).
[Additional Instructions](https://edocs.deq.nc.gov/WaterResources/Browse.aspx?dbid=0&startid=3890140)

U.S. Army Corps of Engineers (USACE)

PERMIT INFORMATION SHEET

PERMIT FORM TYPE	DATE RECEIVED
ENG 6082	10/30/2026

TYPE OF PERMIT YOU'RE REQUESTING

☐ Standard ☐ Letter Of Permission ☑ General Permit

APPLICABLE STATUTORY AUTHORITY

☑ Section 404 Clean Water Act ☐ Section 10 Rivers and Harbors Act

☐ Section 103 of the Marine Protection, Research, and Sanctuaries Act

DO YOU PROPOSE COMPENSATORY MITIGATIONS?

Yes

COASTAL DISTRICT

WOULD THE PROJECT OCCUR IN THE TERRITORIAL SEAS OR OCEAN WATERS?

No

DESCRIBE THE ACTIVITY'S RELATIONSHIP TO THE BASELINE FROM WHICH THE TERRITORIAL SEA IS MEASURED

SECTION 408 USACE CIVIL WORKS PROJECTS

WILL THE PROPOSED ACTIVITY REQUIRES PERMISSION FROM THE USACE PURSUANT TO 33 U.S.C. 408 BECAUSE IT WILL ALTER OR TEMPORARILY OR PERMANENTLY OCCUPY OR USE A U.S. ARMY CORPS OF ENGINEERS FEDERALLY AUTHORIZED CIVIL WORKS PROJECT?

☐ Yes ☑ No ☐ I'm not sure

IF YES, HAVE YOU SUBMITTED A WRITTEN REQUEST FOR SECTION 408 PERMISSION FROM THE USACE DISTRICT HAVING JURISDICTION OVER THAT PROJECT?

☐ Yes ☑ No

GENERAL PERMIT INFORMATION

WILL THE PROPOSED ACTIVITY RESULT IN A LOSS TO WETLANDS OR WATERS THAT EXCEEDS NATIONAL OR DISTRICT THRESHOLDS?

Yes

Project Submittal Interim Form

Updated March 16, 2026

*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.*

Project Type: *

- ○ For the Record Only (Courtesy Copy)
- ○ Modification/New Project with Existing ID
- ○ Other Agency Comments
- ○ Re-Issuance\Renewal Request
- ◉ New Project
- ○ More Information Response
- ○ Pre-Application Submittal
- ○ Stream or Buffer Appeal

*** If this is a GP reissuance/renewal please reference the date of the plans and PCN that were originally verified.**

New Project - Please check the new project type if you are trying to submit a new project that needs an official approval decision.

Pre-Application Submittal – Please check the pre-application submittal if you just want feedback on your submittal and do not have the expectation that your submittal will be considered a complete application requiring a formal decision.

Modification/New Project With An Existing ID - Please check this box if you are submitting for a new phase of an existing project, a modification to an existing project or for any additional impacts to an existing project for an official approval decision.

More Information Response - Please check this type if you are responding to a request for information from staff and you have and ID# and version for this response.

Other Agency Comments - Please check this if you are submitting comments on an existing project.

Re-issuance\Renewal Request – Please check this if you are submitting for a re-issuance\renewal prior to expiration date for the corresponding 401/404. If submitting after the expiration date or if modification needed use Modification\New Project with Existing ID option.

Submittal Type: *

401 Application - Certificate of Coverage

Is buffer approval also required? *

○ Yes ◉ No

Project Contact Information

Name:

Erin Cheely

Who is submitting the information?

Email Address: *

ekcheely@ncdot.gov

Project Information

Project Name: *

BR-0018/NC 8 over US 52/Forsyth/Div 9/67018.1.1

Is this a public transportation project? *

- (●) Yes
- ( ) No

Is this a DOT project? *

- (●) Yes
- ( ) No

TIP#:

BR-0018

WBS#:

67018.1.1

(Applies to DOT projects only)

Project Status

If you selected "Re-Issuance/Renewal Request" or "Modification/New Project with Existing ID" for your project type at the top of this form, please enter the current status of your project.

- (●) Pre-let
- ( ) Under Construction
- ( ) Utility Relocation Underway
- ( ) In-Field Adjustment

Only choose "In-Field Adjustment" if directed to do so by 401 staff

Is this application for a project associated with emergency response/repairs from Hurricane Helene impacts to your project or property? *

- ( ) Yes
- (●) No

Is the project located within a NC DCM Area of Environmental Concern (AEC)? *

- ( ) Yes
- (●) No
- ( ) Unknown

Does this project involve maintenance dredging funded by the Shallow Draft Navigation Channel Dredging and Aquatic Weed Fund, electric generation projects located at an existing or former electric generating facility, 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 or S.L. 2023-134 (earmark)? *

- ( ) ARPA
- ( ) S.L. 2023-134 (earmark)
- (●) No

Is this application being filed jointly with another party involved with this project? *

- ( ) Yes
- (●) No

County (ies) *

Forsyth

Please upload all files that need to be submited.

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

Generated_Cheely_57418_67698_0_Appx_D1_MB_ILF.pdf	41.67KB
Generated_Cheely_57418_67698_0_Appx_H_Supporting_Files.pdf	47.83KB
Generated_Cheely_57418_67698_0_ENG_6082_PCN.pdf	547.39KB
Generated_Cheely_57418_67698_0_NCDWR 401_JPA_Report.pdf	87.3KB
Generated_Cheely_57418_67698_0_Permit_Additional_Info.pdf	211.92KB
Generated_Cheely_57418_67698_0_Appx_C_Impacts.pdf	66.79KB
DMS Acceptance Letter_BR-0018.pdf	269.95KB
BR-0018 Final Permit Drawings.pdf	10.55MB
WNC Bat PBO Response Letter Submittal 18.pdf	171.1KB
BR-0018 Forsyth 48_CE.pdf	9.37MB
BR-0018 - Catawba Tribal Approval Letter_2024-10-15.pdf	471.49KB

Only pdf or kmz files are accepted.

Describe the attachments or add comments:

NW 14 application submitted to USACE via RRS
COC for DWQ GC8569 (permanent impacts per stream >150' but <300')

*

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

- I, the project proponent, hereby certifies that all information contained herein is true, accurate, and complete to the best of my knowledge and belief.
- I, 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 agree that submission of this online 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 online form.

Signature: *

Erin K. Cheely

Submittal Date: 10/30/2026

Permit Drawings

North Carolina Department of Transportation

Highway Stormwater Program

STORMWATER MANAGEMENT PLAN

FOR NCDOT PROJECTS

(Version 3.02; Released April 23, 2024)

General Project Information

WBS Element:	67018.1.1	**TIP Number:**	BR-0018	**Project Type:**	Bridge Replacement	**Date:**	9/30/2025
NCDOT Contact:	Samira Jasim, PE			**Contractor / Designer:**	Monika Szoke-Fanczal, PE		
	Address: 1000 Birch Ridge Drive Raleigh, NC 27610			**Address:**	6701 Carmel Rd Suite 210 Charlotte, NC 28226		
	Phone: (919) 707-6304			**Phone:**	(540) 230-8601		
	Email: sjasim@ncdot.gov			**Email:**	mszoke@parrishandpartners.com		
City/Town:	Winston-Salem			**County(ies):**	Forsyth		
River Basin(s):	Yadkin-Pee Dee			**CAMA County?**	No		
Wetlands within Project Limits?	Yes						

Project Description

Project Length (lin. miles or feet):	0.495 miles	**Surrounding Land Use:**	Single Family Residential, with some Commercial and Industrial				
	Proposed Project			**Existing Site**			
Project Built-Upon Area (ac.)		ac.				ac.	
Typical Cross Section Description:	The proposed typical section for -L- will be divided (2) 12' lanes with normal crown with a proposed median transitioning to a Roundabout. See typical sections and roadway plans for roundabout and -Y- lines. The proposed bridge typical section has (2) 12' lanes (normal crown) with a 6' median, 6' to 7' wide shoulders and barrier rails.			The existing corridor is presently a two-lane (11' each direction) roadway with roadside shoulders. Most of the existing roadway is crowned with runoff collected via roadside ditches, driveway pipes and drop inlets.			
Annual Avg Daily Traffic (veh/hr/day):	Design/Future:	14000	Year: 2040	Existing:	13600	Year:	2018

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

The North Carolina Department of Transportation (NCDOT) proposes to replace Bridge No. 330048 on NC 8 (Germanton Rd) over US 52 (STIP BR-0018) in Forsyth County. The proposed design will widen NC 8 within the project limits. The proposed project roadway improvements will maintain the major drainage area patterns.
As a result of the bridge and roadway widening, the existing box culvert on NC 8 at Leak Fork will need to be lengthened.
Leak Fork at the project site is a FEMA Detailed Study (Redelineated) stream with a mapped floodplain and floodway.

The drainage area has approximately 20% impervious cover based on the NLCD 2006 dataset. The project is located within the Yadkin Pee Dee river basin.

North Carolina Department of Transportation

Highway Stormwater Program

STORMWATER MANAGEMENT PLAN

FOR NCDOT PROJECTS

(Version 3.02; Released April 23, 2024)

General Project Information

Waterbody Information

Surface Water Body (1):	Leak Fork		**NCDWR Stream Index No.:**	12-94-7-4		
NCDWR Surface Water Classification for Water Body		**Primary Classification:**	Class C			
		Supplemental Classification:	None			
Other Stream Classification:	None					
Impairments:	None					
Aquatic T&E Species?	No	Comments:				
NRTR Stream ID:	Leak Fork			**Buffer Rules in Effect:**	N/A	
Project Includes Bridge Spanning Water Body?	No	**Deck Drains Discharge Over Buffer?**	No	**Dissipator Pads Provided in Buffer?**	No	
Deck Drains Discharge Over Water Body?	N/A	(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)		
(If yes, provide justification in the General Project Narrative)						

Surface Water Body (2):	UT to Leak Fork		**NCDWR Stream Index No.:**	12-94-7-4		
NCDWR Surface Water Classification for Water Body		**Primary Classification:**	Class C			
		Supplemental Classification:	None			
Other Stream Classification:	None					
Impairments:	None					
Aquatic T&E Species?	No	Comments:				
NRTR Stream ID:	SA			**Buffer Rules in Effect:**	N/A	
Project Includes Bridge Spanning Water Body?	No	**Deck Drains Discharge Over Buffer?**	N/A	**Dissipator Pads Provided in Buffer?**	N/A	
Deck Drains Discharge Over Water Body?	N/A	(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)		
(If yes, provide justification in the General Project Narrative)						

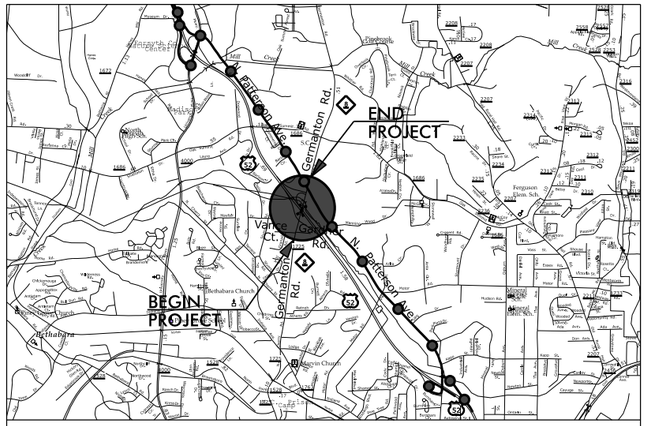
Surface Water Body (3):	UT to Leak Fork		**NCDWR Stream Index No.:**	12-94-7-4		
NCDWR Surface Water Classification for Water Body		**Primary Classification:**	Class C			
		Supplemental Classification:	None			
Other Stream Classification:	None					
Impairments:	None					
Aquatic T&E Species?	No	Comments:				
NRTR Stream ID:	SB			**Buffer Rules in Effect:**	N/A	
Project Includes Bridge Spanning Water Body?	No	**Deck Drains Discharge Over Buffer?**	N/A	**Dissipator Pads Provided in Buffer?**	N/A	
Deck Drains Discharge Over Water Body?	N/A	(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)		
(If yes, provide justification in the General Project Narrative)						

09/08/99

TIP PROJECT: BR-0018

CONTRACT: C######

See Sheet 1A For Index of Sheets



VICINITY MAP (NTS) DETOUR

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

FORSYTH COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	BR-0018	1	

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION
67018.1.1		PE
67018.2.1		R/W
67018.3.1		CONSTRUCTION

PERMIT DRAWINGS
SHEET 1 OF 11

LOCATION: *REPLACE BRIDGE NO. 330048*
ON NC 8 (GERMANTON ROAD) OVER US 52

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

WETLAND AND SURFACE WATER IMPACTS PERMIT

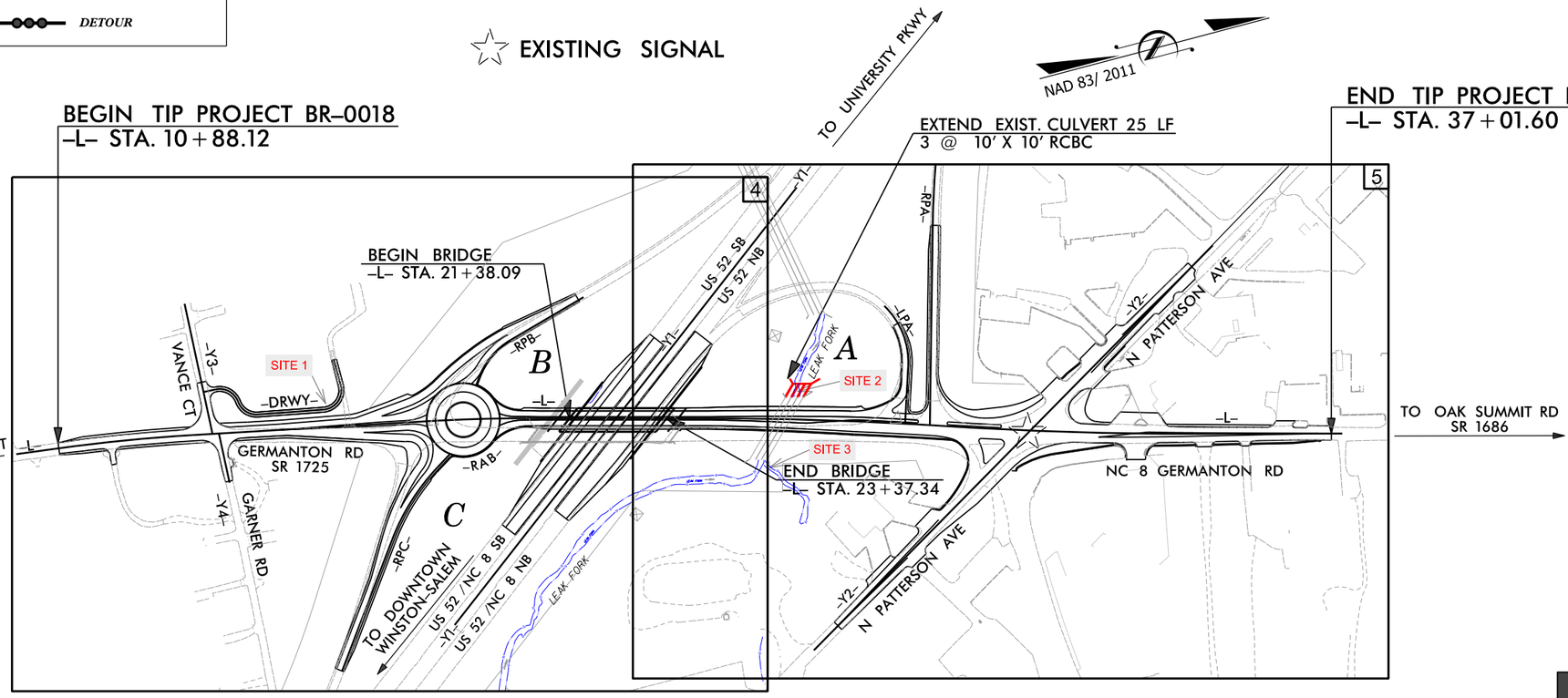
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.

THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF THE CITY OF WINSTON-SALEM.

THIS IS A LIMITED CONTROLLED ACCESS PROJECT WITH ACCESS BEING LIMITED TO INTERCHANGES AND AT-GRADE INTERSECTIONS.

☆ EXISTING SIGNAL

NAD 83/ 2011



RIGHT OF WAY ACQUISITION PLAN SET

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES

PLANS 50 25 0 50 100

PROFILE (HORIZONTAL) 50 25 0 50 100

PROFILE (VERTICAL) 10 5 0 10 20

DESIGN DATA

ADT 2018 = 13600
ADT 2040 = 14000
K = 10 %
D = 60 %
T = 7 % *
V = 50 MPH
* TTST = 1% DUAL 6%
FUNC CLASS =
MAJOR COLLECTOR
STATEWIDE TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT BR-0018 = 0.457 MILES
LENGTH STRUCTURE TIP PROJECT BR-0018 = 0.038 MILES
TOTAL LENGTH TIP PROJECT BR-0018 = 0.495 MILES

Prepared in the Office of:
PARRISH & PARTNERS
220 HORIZON DRIVE
SUITE 100
RALEIGH, NC 27615
FIRM LICENSE P-1212

2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
APRIL 8, 2025

LETTING DATE:
APRIL 20, 2027

SAMIRA JASIM, PE
NCDOT CONTACT

ADAM PARRISH, PE
PROJECT ENGINEER

MATTHEW FERGUSON, PE
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: *P.E.*

ROADWAY DESIGN ENGINEER

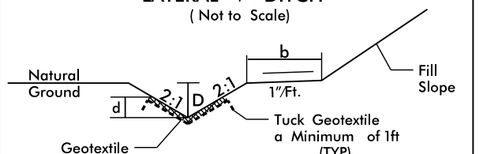
SIGNATURE: *P.E.*

STATE OF NORTH CAROLINA • DEPARTMENT OF TRANSPORTATION •

5/26/20

PERMIT DRAWINGS
SHEET 2 OF 11

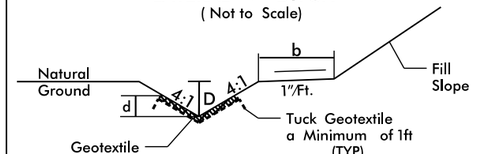
DETAIL A
LATERAL 'V' DITCH
(Not to Scale)



Min. D = 2.0Ft.
d = 1.0 Ft.
Type of Liner = Class 'B' Rip–Rap, Keyed–In b = 5.0 Ft.

FROM STA. 16+25 TO STA. 18+00 LT –L–

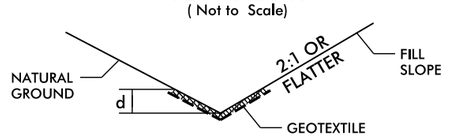
DETAIL A–2
LATERAL 'V' DITCH
(Not to Scale)



Min. D = 2.0Ft.
d = 1.0 Ft.
Type of Liner = Class 'B' Rip–Rap, Keyed–In b = 5.0 Ft.

FROM STA. 25+21 TO STA. 25+93 LT –L–

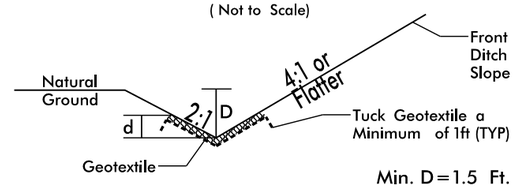
DETAIL B
TOE PROTECTION
(Not to Scale)



d = 1.0 Ft.
Type of Liner = CLASS 'B' Rip–Rap

FROM STA. 19+90 LT TO STA. 20+30 LT –L–
FROM STA. 12+25 LT TO STA. 13+25 LT –RPC–

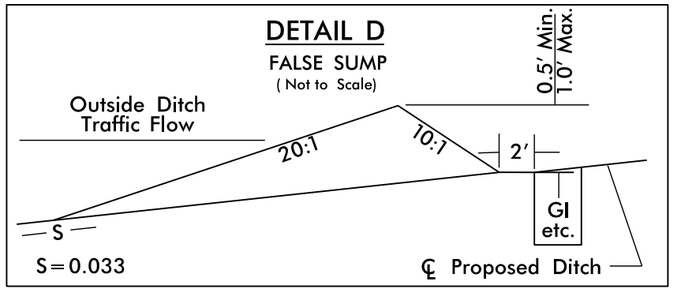
DETAIL C
SPECIAL 'V' DITCH
(Not to Scale)



Min. D = 1.5 Ft.
Type of Liner = CLASS 'B' Rip–Rap, Keyed–In d = 1.0 Ft.

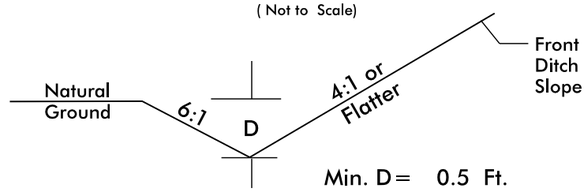
FROM STA. 11+21 LT TO STA. 12+15 LT –RPB–
FROM STA. 16+25 RT TO STA. 17+50 RT –L–

DETAIL D
FALSE SUMP
(Not to Scale)



FROM STA. 13+90 LT TO STA. 14+05 LT –RPC–

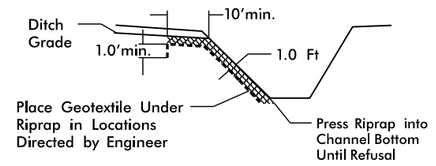
DETAIL E
CUT DITCH
(Not to Scale)



Min. D = 0.5 Ft.

FROM STA. 11+25 LT TO STA. 11+65 LT –Y2–
FROM STA. 12+00 RT TO STA. 12+50 RT –Y2–

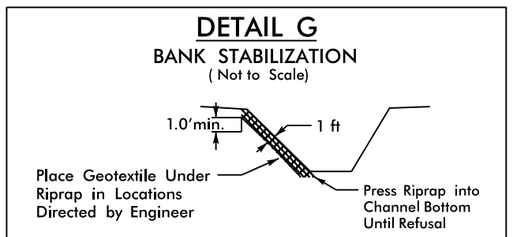
DETAIL F
RIP RAP AT EMBANKMENT
(Not to Scale)



Type of Liner = 19 TONS,CL 'B' Rip–Rap, Keyed–In

FROM STA. 25+85 TO STA. 26+10

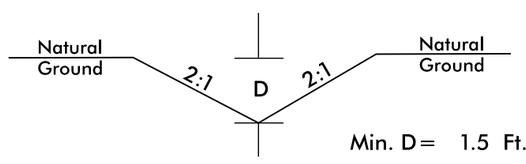
DETAIL G
BANK STABILIZATION
(Not to Scale)



Type of Liner = 7 TONS,CL 'B' Rip–Rap, Keyed–In

FROM STA. 26+40 LT TO STA. 26+51 LT –L–

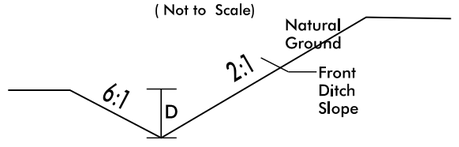
DETAIL H
STANDARD 'V' DITCH
(Not to Scale)



Min. D = 1.5 Ft.

FROM STA. 26+80 RT TO STA. 28+20 RT –L–

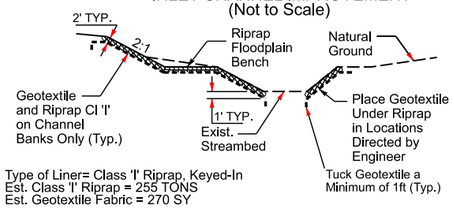
DETAIL J
CUT DITCH
(Not to Scale)



Min. D = 1.5 Ft.

FROM STA. 18+45.00 RT TO STA. 18+50 RT –Y2–

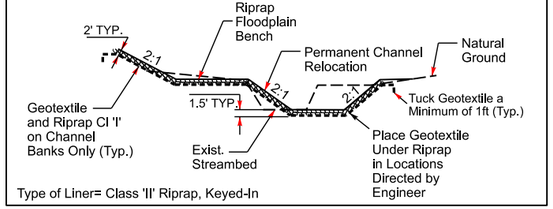
DETAIL K
INLET CHANNEL IMPROVEMENT
(Not to Scale)



Type of Liner= Class 'I' Riprap, Keyed-In
Est. Class 'I' Riprap = 255 TONS
Est. Geotextile Fabric = 270 SY

FROM STA. 24+69.11 -L- TO STA. 25+50 -L-

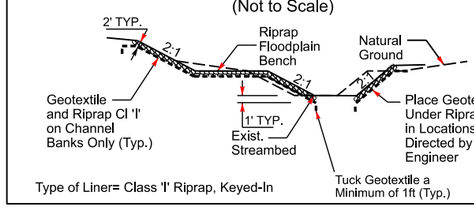
DETAIL L
OUTLET CHANNEL IMPROVEMENT
W/ RIPRAP IN STREAMBED
(Not to Scale)



Type of Liner= Class 'II' Riprap, Keyed-In

FROM STA. 25+88 -L- TO STA. 26+50 -L-

DETAIL M
OUTLET CHANNEL IMPROVEMENT
(Not to Scale)



Type of Liner= Class 'I' Riprap, Keyed-In

FROM STA. 25+88 -L- TO STA. 26+50 -L-

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NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
FORSYTH COUNTY



ROADWAY DESIGN UNIT

ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PREPARED BY

PARRISH & PARTNERS
220 HORIZON DRIVE
SUITE 100
RALEIGH, NC 27615

REVISIONS

5/26/20

PERMIT DRAWING
SHEET 3 OF 11

F F FILL IN WETLAND

TS TS TEMPORARY SURFACE WATER IMPACTS

NAD 83/2011

NC GRID NAD 83 NA 20N

SITE 1

MATCHLINE -Y1- STA. 18+00
SEE SHEET 5

MATCHLINE -L- STA. 24+50 SEE SHEET 5

BMI ELEVATION = 841.79
N 681388 E 1627403
-L- STATION 15+13.00 62 LEFT
R/R SPIKE SET IN ROOT OF 21" SWEET GUM

HKO FAMILY PROPERTIES LLC
DB 2224 PG 1089
PB 17 PG 4

FAUSTO E HERNANDEZ
MARTHA A HERNANDEZ
DB 2915 PG 3629
PB 17 PG 4

C W MYERS TRADING POST INC
DB 1632 PG 3050
PB 17 PG 4

FREDERIC A J HOLLAND
ANNE S HOLLAND
DB 3040 PG 1313
PB 12 PG 49

CHELSEA K ISAKSEN
DB 2843 PG 3835
PB 17 PG 4

C W MYERS TRADING POST INC
DB 923 PG 181

C W MYERS TRADING POST INC
DB 849 PG 168
PB 9 PG 23

FRITTER JACOB TABER RACHEL
DB 3922 PG 986
PB 12 PG 75

WIDE MACH INVESTMENT PROPERTIES LLC
DB 2868 PG 190
PB 12 PG 75

MELINDA D LEONARD
THOMAS E LEONARD
DB 2616 PG 1021
PB 12 PG 75

JESUS A VELASCO CHONG
MICHELLE LEA VELASCO
DB 3254 PG 4442
PB 12 PG 75

COLIN R CECIL
DB 2207 PG 4724
PB 12 PG 75

PRINCE PEGEUESE
DB 1487 PG 156
PB 12 PG 75

RICHARD C CLINARD
BRENDA CLINARD
DB 1169 PG 436
PB 12 PG 75

US 52 SB JOHN GOLD MEMORIAL EXPY 346' BST

US 52 NB JOHN GOLD MEMORIAL EXPY 314' BST

GRADE TO DRAIN

RETAIN

REMOVE

REMOVE 154 LF OF 42" CMP

TRANSITION PIPE TO ALUMINIZED STEEL

RETAIN JB w/MH

BEGIN SBG -L- STA. 23+75.71

TB 2GI

JB w/MH

ADJUST

RETAIN

LEAK FORK

50 25 0 50 100
PLANS

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NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
FORSYTH COUNTY

ROADWAY DESIGN UNIT

ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER

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220 HORIZON DRIVE
SUITE 100
RALEIGH NC 27615

5/26/20

F / F FILL IN WETLAND

TS / TS TEMPORARY SURFACE WATER IMPACTS

PERMIT DRAWING
SHEET 4 OF 11

NAD 83/2011

SITE 1

MATCHLINE -Y1- STA. 18+00
SEE SHEET 5

MATCHLINE -L- STA. 24+50 SEE SHEET 5

BMI ELEVATION = 841.79
N 691388 E 1627403
-L- STATION 15+13.00 62 LEFT
R/R SPIKE SET IN ROOT OF 21" SWEET GUM

FREDERIC A J HOLLAND
ANNE S HOLLAND
DB 3040 PG 1313
PB 12 PG 49

CHELSEA K ISAKSEN
DB 2843 PG 3835
PB 17 PG 4

FAUSTO E HERNANDEZ
MARTHA A HERNANDEZ
DB 2915 PG 3629
PB 17 PG 4

HKO FAMILY PROPERTIES LLC
DB 2224 PG 1089
PB 17 PG 4

C W MYERS TRADING POST INC
DB 1632 PG 3050
PB 17 PG 4

C W MYERS TRADING POST INC
DB 923 PG 181

C W MYERS TRADING POST INC
DB 849 PG 168
PB 9 PG 23

FRITTER JACOB TABER RACHEL
DB 3922 PG 986
PB 12 PG 75

WIDE MACH INVESTMENT PROPERTIES LLC
DB 2868 PG 190
PB 12 PG 75

MELINDA D LEONARD
THOMAS E LEONARD
DB 2616 PG 1021
PB 12 PG 75

JESUS A VELASCO CHONG
MICHELLE LEA VELASCO
DB 3254 PG 4442
PB 12 PG 75

COLIN R CECIL
DB 2207 PG 4724
PB 12 PG 75

PRINCE PEGUESE
DB 1487 PG 1156
PB 12 PG 75

RICHARD C CLINARD
BRENDA CLINARD
DB 1169 PG 436
PB 12 PG 75

US 52 SB JOHN GOLD MEMORIAL EXPY
US 52 NB JOHN GOLD MEMORIAL EXPY

50 25 0 50 100
PLANS

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NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
FORSYTH COUNTY

ROADWAY DESIGN UNIT

ROADWAY DESIGN ENGINEER

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RALEIGH NC 27615

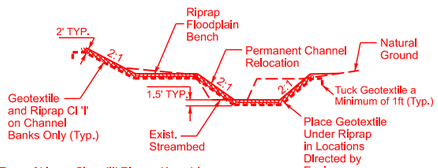
REVISIONS

5/26/20

SURFACE WATER IMPACTS

TEMPORARY SURFACE WATER IMPACTS

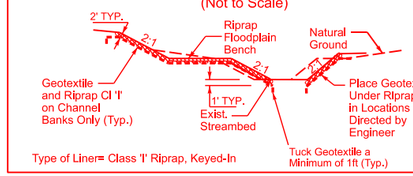
DETAIL L
OUTLET CHANNEL IMPROVEMENT
W/ RIPRAP IN STREAMBED
(Not to Scale)



Type of Liner= Class 'II' Riprap, Keyed-In

FROM STA. 25+88 -L- TO STA. 26+50 -L-

DETAIL M
OUTLET CHANNEL IMPROVEMENT
(Not to Scale)



Type of Liner= Class 'I' Riprap, Keyed-In

FROM STA. 25+88 -L- TO STA. 26+50 -L-

PERMIT DRAWING
SHEET 5 OF 11

NAD 83/2011

MATCHLINE -Y1- STA. 18+00
SEE SHEET 4

MATCHLINE -L- STA. 24+50 SEE SHEET 4

SEE PERMIT DRAWING SHEET 6 OF 11 FOR ENLARGEMENT

DRAIN PIPES TO WITHSTAND 80,000 LBS OF HEAVY VEHICLE LOAD WITHIN DET ROW

PERMANENT CHANNEL RELOCATION SEE DETAIL M

PERMANENT FILL IN STREAMBED SEE DETAIL L

INSTALL MOD. CONC. FLUME

SITE 2B

SITE 2A

SITE 2

SITE 2C

SITE 2D

SITE 3

BANK STABILIZATION SEE DETAIL G

RIPRAP w/FLOODPLAIN BENCH SEE DETAIL K

REMOVE 49 LF OF 15" CMP

15" CSP 16ga w/ ELBOWS

GRADE TO DRAIN

RETAIN SYSTEM

REMOVE SYSTEM

RETAIN

REMOVE

FRANK MYERS INVESTMENTS LLC DB 2670 PG 1279

ROGELIO TORRES PATINO DB 3568 PG 1791

JOHAR & BASSI PROPERTIES LLC DB 2525 PG 3390

DONALD L BENTON DB 3391 PG 2883 DB 2677 PG 1262

GRAY SKY CO DB 1301 PG 540 DB 1562 PG 201

WINSTON SALEM BUSINESS ADVENTURES LLC DB 3362 PG 4220

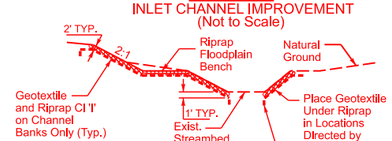
HARRY LEAKE CLARA V LEAKE DB 2809 PG 80

4TH PURPOSE REALTY, LLC DB 3500 PG 1900

ALBENT UNIVERSAL CORP DB 1803 PG 754

TOWER POINT PROPERTIES LLC DB 3528 PG 406

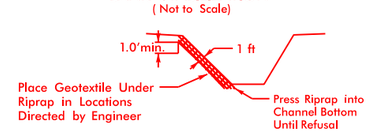
DETAIL K
INLET CHANNEL IMPROVEMENT
(Not to Scale)



Type of Liner= Class 'I' Riprap, Keyed-In
Est. Class 'I' Riprap = 255 TONS
Est. Geotextile Fabric = 270 SY

FROM STA. 24+69.11 -L- TO STA. 25+50 -L-

DETAIL G
BANK STABILIZATION
(Not to Scale)



Type of Liner= 7 TONS,CL 'B' Rip-Rap, Keyed-In

FROM STA. 26+40 LT TO STA. 26+51 LT -L-
FROM STA. 25+41 RT TO STA. 25+55 RT -L-

50 25 0 50 100

PLANS

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NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
FORSYTH COUNTY

ROADWAY DESIGN UNIT

ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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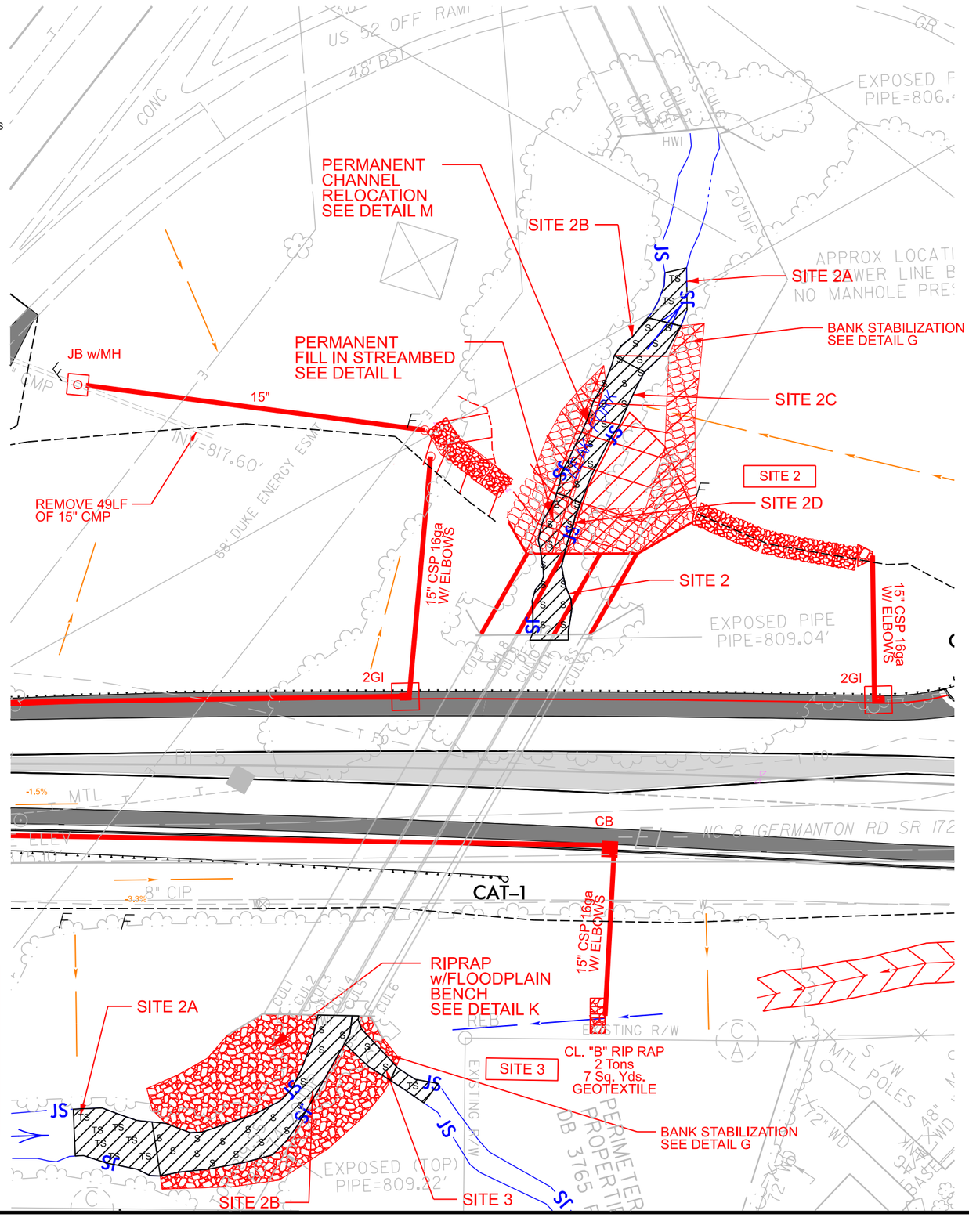
PARRISH & PARTNERS
220 HORIZON DRIVE
SUITE 100
RALEIGH NC 27615

REVISIONS

11/14/23

SURFACE WATER IMPACTS

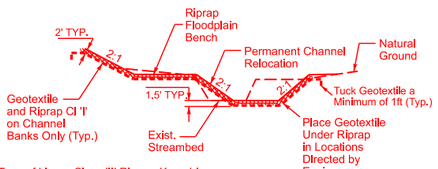
TEMPORARY SURFACE WATER IMPACTS



PERMIT DRAWING
SHEET 6 OF 11

SCALE = 1' = 20'

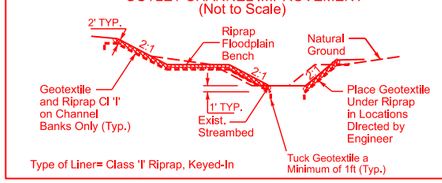
DETAIL L
OUTLET CHANNEL IMPROVEMENT
W/ RIPRAP IN STREAMBED
(Not to Scale)



Type of Liner= Class 'II' Riprap, Keyed-In

FROM STA. 25+88 -L- TO STA. 26+50 -L-

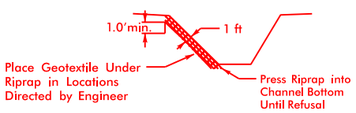
DETAIL M
OUTLET CHANNEL IMPROVEMENT
(Not to Scale)



Type of Liner= Class 'I' Riprap, Keyed-In

FROM STA. 25+88 -L- TO STA. 26+50 -L-

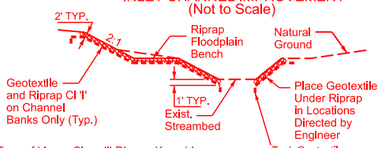
DETAIL G
BANK STABILIZATION
(Not to Scale)



Type of Liner= 7 TONS,CL 'B' Rip-Rap, Keyed-In

FROM STA. 26+40 LT TO STA. 26+51 LT -L-
FROM STA. 25+41 RT TO STA. 25+55 RT -L-

DETAIL K
INLET CHANNEL IMPROVEMENT
(Not to Scale)



Type of Liner= Class 'I' Riprap, Keyed-In
Est. Class 'I' Riprap = 255 TONS
Est. Geotextile Fabric = 270 SY

FROM STA. 24+69.11 -L- TO STA. 25+50 -L-

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NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
FORSYTH COUNTY

ROADWAY DESIGN UNIT

ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER

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PREPARED BY

PARRISH & PARTNERS
220 HORIZON DRIVE
SUITE 100
RALEIGH, NC 27615

REVISIONS

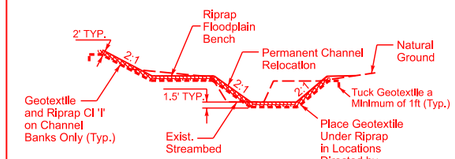
$$$-USER_NAME-$$$ - $$$-DATE-$$$

5/26/20

SURFACE WATER IMPACTS

TEMPORARY SURFACE WATER IMPACTS

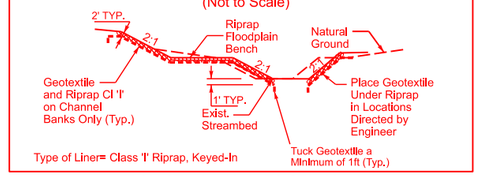
DETAIL L
OUTLET CHANNEL IMPROVEMENT
W/ RIPRAP IN STREAMBED
(Not to Scale)



Type of Liner= Class 'II' Riprap, Keyed-In

FROM STA. 25+88 -L- TO STA. 26+50 -L-

DETAIL M
OUTLET CHANNEL IMPROVEMENT
(Not to Scale)



Type of Liner= Class 'I' Riprap, Keyed-In

FROM STA. 25+88 -L- TO STA. 26+50 -L-

MATCHLINE -Y1- STA. 18+00
SEE SHEET 4

MATCHLINE -L- STA. 24+50 SEE SHEET 4

DRAIN PIPES TO WITHSTAND 80,000 LBS OF HEAVY VEHICLE LOAD WITHIN DET ROW

PERMANENT CHANNEL RELOCATION SEE DETAIL M

PERMANENT FILL IN STREAMBED SEE DETAIL L

INSTALL MOD. CONC. FLUME

BANK STABILIZATION SEE DETAIL G

GRADE TO DRAIN

RETAIN SYSTEM

REMOVE SYSTEM

REMOVE 49 LF OF 15" CMP

SITE 2

SITE 2A

SITE 2B

SITE 2C

SITE 2D

SITE 3

15" CSP 16ga W/ ELBOWS

24" RCP IV

18" RCP IV

18" SD

RIPRAP w/FLOODPLAIN BENCH SEE DETAIL K

REMOVE

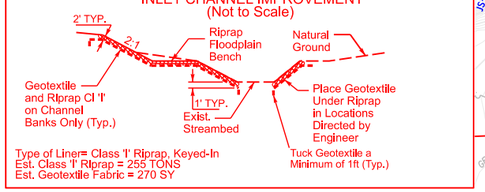
RETAIN

CB

DI

2GI

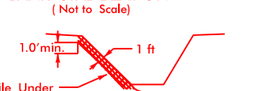
DETAIL K
INLET CHANNEL IMPROVEMENT
(Not to Scale)



Type of Liner= Class 'I' Riprap, Keyed-In
Est. Class 'I' Riprap = 255 TONS
Est. Geotextile Fabric = 270 SY

FROM STA. 24+69.11 -L- TO STA. 25+50 -L-

DETAIL G
BANK STABILIZATION
(Not to Scale)



Type of Liner= 7 TONS,CL 'B' Rip-Rap, Keyed-In

FROM STA. 26+40 LT TO STA. 26+51 LT -L-
FROM STA. 25+41 RT TO STA. 25+55 RT -L-

PERMIT DRAWING
SHEET 7 OF 11

NAD 83/2011

DONALD L BENTON
DB 3391PG 2883
DB 2677 PG 1262

GRAY SKY CO
DB 1301PG 540
DB 1562 PG 201

FRANK MYERS INVESTMENTS LLC
DB 2670 PG 1279

ROGELIO TORRES PATINO
DB 3568 PG 1791

JOHAR & BASSI PROPERTIES LLC
DB 2525 PG 3390

WINSTON SALEM BUSINESS ADVENTURES LLC
DB 3362 PG 4220

HARRY LEAKE
CLARA V LEAKE
DB 2809 PG 80

4TH PURPOSE REALTY, LLC
DB 3500 PG 1900

ALBENT UNIVERSAL CORP
DB 1803 PG 754

TOWER POINT PROPERTIES LLC
DB 3288 PG 406

50 25 0 50 100
PLANS

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NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
FORSYTH COUNTY

ROADWAY DESIGN UNIT

ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER

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PREPARED BY

PARRISH & PARTNERS
220 HORIZON DRIVE
SUITE 100
RALEIGH NC 27615

REVISIONS

5/26/20

PERMIT DRAWING
SHEET 8 OF 11

-L-

BEGIN GRADE
STA. 10+88.12
ELE. = 890.90'

50'
TIE-IN

-L-
(-)5.5210%

VPI
11+38.12
888.13

-L-
(-)6.0296%

VPC
14+41.00
869.87

L = 404
K = 96

(-)6.0296%

BEGIN DITCH RT
STA 16+25 -L-
ELEV 856.66

VPI 16+43.00
857.69

(-)1.8276%

(-)6.4800%

END DITCH RT
STA 17+50 -L-
ELEV 848.56

VPT

END GRADE
-L- STA. 18+45.00
-RAB- STA. 10+00.00
-RAB- STA. 14+71.24
ELE. = 854.00'

BEGIN GRADE
-L- STA. 19+95.01
-RAB- STA. 12+34.80
ELE. = 851.05'

-RAB-

PROPOSED GRADE

EXISTING GRADE

(-) 0.5211%

BEGIN DITCH LT
STA 17+05 -L-
ELEV 840.055

END DITCH LT
STA 18+00 -L-
ELEV 839.56

RIGHT DITCH

LEFT DITCH

BEGIN BRIDGE
STA. 21+38.09

-L- STA. 22+33.84 =
-Y1- STA. 15+38.24

-L-
(-)1.5182%

END BRIDGE
STA. 23+37.34

L = 155
K = 85

VPC
23+72.50
845.32

896.59
890.24
890.15
884.40
884.22
878.37
877.99
872.34
871.69
866.50
866.27
861.60
860.34
857.74
854.50
854.93
850.30
847.51
850.97
844.24
849.46
837.25
847.94
822.56
846.42
822.76
844.86
836.46

HYDRAULIC DATA

DESIGN DISCHARGE	= 2290	C.F.S.
FREQUENCY OF DESIGN FLOOD	= 50	YRS.
DESIGN HIGH WATER ELEVATION	= 818.4	
DRAINAGE AREA	= 3.8	SQ. MI.
BASIC DISCHARGE (Q100)	= 3040	C.F.S.
BASIC HIGH WATER ELEVATION	= 821.4	

OVERTOPPING FLOOD DATA

OVERTOPPING DISCHARGE	= 4950	C.F.S.
FREQUENCY OF OVERTOPPING FLOOD	= ≥ 500	YRS.
OVERTOPPING FLOOD ELEVATION	= 835.9*	

*-L- STA 28+21.26 RT SHOULDER

WS EL Taken @ River Station 10555

L = 155
K = 85

VPI
24+50.00
844.14

(-)1.5182%

(-)3.3483%

-L-

(-)3.3483%

VPC
25+60.00
840.46

L = 140
K = 81
DS = 45 MPH

VPT
27+00.00
836.98

VPC
27+15.00
836.73

-L-

(-)1.6268%

-L- STA. 28+77.58 =
-RPA- STA. 10+00.00
ELE. = 836.11'

LP
28+21.11
835.87

L = 540
K = 65

PROPOSED GRADE

EXISTING GRADE

VPT
32+55.00
850.30

(-)1.6268%

(+)6.6517%

-L-
(+)6.6517%

-L- STA. 30+84.12 =
-Y2- STA. 16+32.84
ELE. = 841.16'

VPI
29+85.00
832.34

VPC
35+07.50
867.10

(+)6.6517%

VPI
35+85.00
872.25

(+)4.8689%

VPT
36+62.50
876.02

-L-
(+)4.8689%

END GRADE
STA. 37+01.60
ELE. = 877.93'

L = 155
K = 87

842.42
834.56
VPT
25+21.50
841.56

PROPOSED 100 YR
WSEL = 821.4'

839.22
832.17

VPI
26+30.00
838.12

-L- STA. 28+26.76 =
-LPA- STA. 10+00.00
ELE. = 835.87'

NG LT

NG RT

(-) 8.4722%

PROPOSED 50 YR
WSEL = 818.4'

BEGIN DITCH LT
STA 25+21 -L-
ELEV 816.50

REMOVE SILT &
SEDIMENT THROUGH
ENTIRE LENGTH
(LEFT BARREL ONLY)

END DITCH LT
STA 25+93 -L-
ELEV 810.40

NAT. WSEL = 807.6'
DATE: 10 /23 /2018

LEFT DITCH

844.86
836.46
835.90
835.52
836.35
835.74
838.32
837.52
841.83
840.43
846.87
845.59
853.29
852.83
859.94
859.83
866.60
866.15
872.76
872.29
877.85
877.85

BR-0018

PERMIT

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
FORSYTH COUNTY

ROADWAY DESIGN UNIT

ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

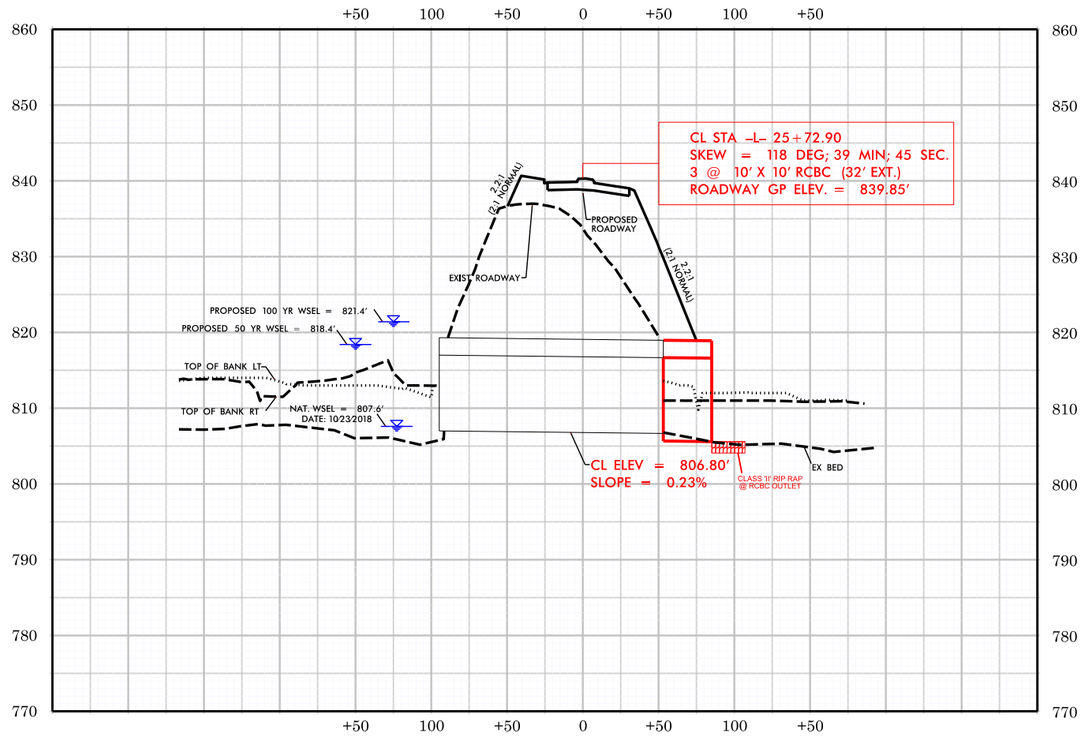
PREPARED BY

PARRISH & PARTNERS
220 HORIZON DRIVE
SUITE 100
RALEIGH NC 27615

REVISIONS

5/26/20

PERMIT DRAWING
SHEET 9 OF 11



BR-0018

PERMIT

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
FORSYTH COUNTY

ROADWAY DESIGN UNIT

ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER

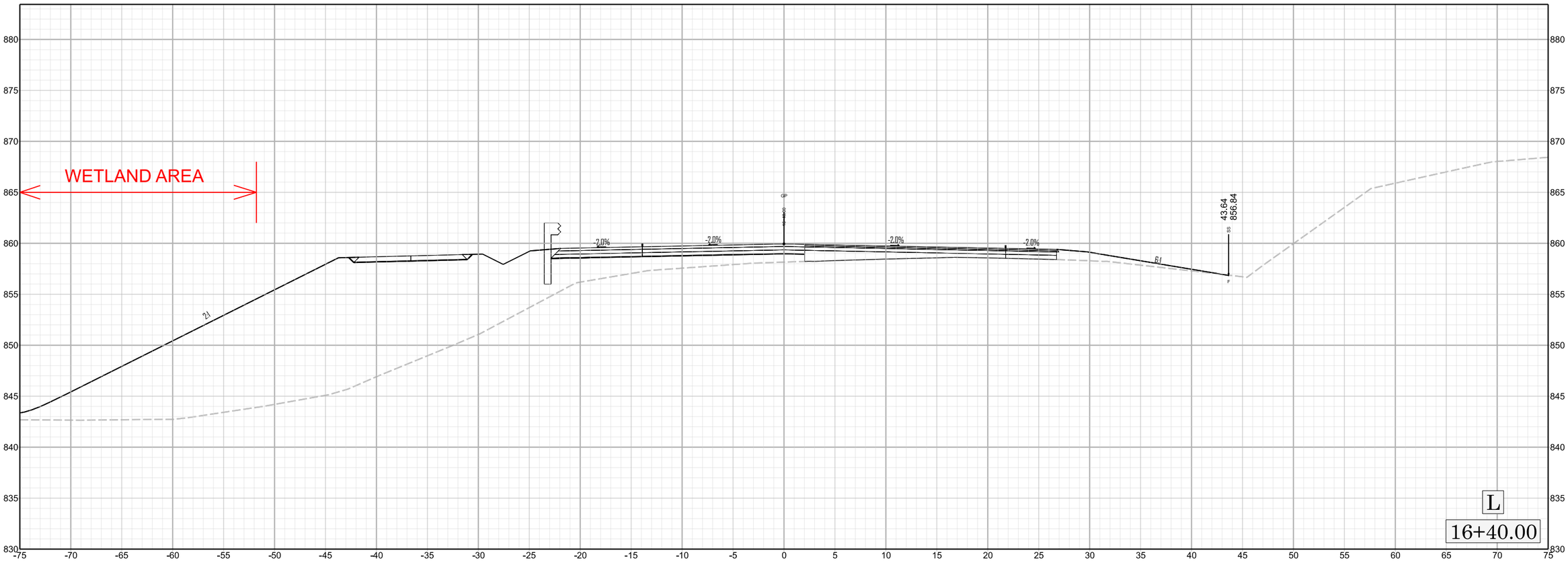
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SUITE 100
RALEIGH NC 27615

REVISIONS

PERMIT DRAWING
SHEET 10 OF 11



X 16+40.00

PERMIT

WETLAND AND SURACE WATER IMPACTS SUMMARY

			WETLAND IMPACTS					SURFACE WATER IMPACTS				
Site No.	Station (From/To)	Structure Size / Type	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	16+23 to 16+50 -L- LT	Roadway Fill	< 0.01									
2	26+00 -L-	Box culvert extension						< 0.01		31		
2A		Dewatering							0.01		50	
2B		Channel stabilization						0.03		110		
2C		Channel relocation						0.01		51		
2D		Bank Stabilization						< 0.01		22		
3	26+00 -L-	Dewatering							< 0.01		16	
3		Bank stabilization						< 0.01		22		
TOTALS*:			< 0.01					0.05	0.02	236	66	0

*Rounded totals are sum of actual impacts

NOTES:

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
10/6/2026
FORSYTH COUNTY
BR-0018
67018.1.1

Mitigation

JOSH STEIN
Governor
D. REID WILSON
Secretary
MARC RECKTENWALD
Director

NORTH CAROLINA
Environmental Quality

October 27, 2026

Mr. Michael Turchy
Environmental Coordination & Permitting Group
North Carolina Department of Transportation
1598 Mail Service Center
Raleigh, North Carolina 27699-1598

Dear Mr. Turchy:

Subject: Mitigation Acceptance Letter: **TIP BR-0018**, Replace Bridge 330048 on NC 8 over US 52, Forsyth County

The purpose of this letter is to notify you that the North Carolina Division of Mitigation Services (NCDMS) will provide the mitigation for the subject project. Based on the information supplied by you on October 26, 2026, the impacts are located in CU 03040101 of the Yadkin River basin as follows:

Stream and Wetlands	Service Area	Stream			Wetlands		
		Cold	Cool	Warm	Riparian	Non-Riparian	Coastal Marsh
Impacts	Yadkin 03040101	0	0	192.000	0	0	0

*Some of the impacts may be proposed to be mitigated at various ratios. See permit application for details. DMS will provide the amount of stream and wetland mitigation included in the environmental permits.

The impacts and associated mitigation needs were not projected by the NCDOT in the 2026 impact data. NCDMS commits to implementing sufficient mitigation credits to offset the impacts associated with this project as determined by the regulatory agencies in accordance with the In-Lieu Fee Instrument dated July 28, 2010. If the above referenced impact amounts are revised, then this mitigation acceptance letter will no longer be valid and a new mitigation acceptance letter will be required from NCDEQ – DMS.

If you have any questions or need additional information, please contact Beth Harmon at 919-707-8420.

Sincerely,

Elizabeth Harmon

Elizabeth A. Harmon
DMS NCDOT ILF Coordinator

cc: Mr. Scott Jones, USACE
Mr. Faith Hardin, NCDWR
Mr. Brad Chilton, NCDOT – EAU
File: BR-0018

Section 7
ESA

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Asheville Field Office
160 Zillicoa Street Suite B
Asheville, North Carolina 28801

August 6, 2026

Subject: Review Response for Transportation Project(s) Covered by the Western North Carolina Bat Programmatic Biological Opinion

Greetings:

The U.S. Fish and Wildlife Service, Asheville Ecological Services Field Office, has reviewed the project(s) submitted on August 4, 2026, for coverage under the Western North Carolina (WNC) Bat Programmatic Biological Opinion (PBO), issued April 1, 2025. Based on the submitted materials and any supplemental information provided, we confirm the project(s) meet the criteria for coverage under this PBO in accordance with section 7 of the Endangered Species Act of 1973, as amended (16 U.S.C. 1531–1543) (ESA), thus concluding formal consultation for the project(s).

This correspondence conveys our review for listed/proposed bats covered by the WNC Bat PBO only. The lead federal agency (Federal Highway Administration (FHWA) or North Carolina Department of Transportation as their designee, or U.S. Army Corps of Engineers) remains responsible for ensuring that any other listed or proposed species and/or designated critical habitat that occurs within the project action area are addressed in accordance with section 7 of the ESA. For other listed species potentially occurring in the action area, if suitable habitat is absent from the action area, “No Effect” determinations are appropriate. For plants, in instances where suitable habitat is present and botanical surveys conducted during the optimal survey window and within the past one or two years (depending on the species) have negative results, we would concur with a biological determination of “may affect, not likely to adversely affect” (NLAA).

Review and concurrence under the WNC Bat PBO are considered complete for the following project(s):

Project Title	NCDOT STIP/ID #	USFWS Log #
Widen NC 84, create new roadway portion	U-3467	26-187
Replacement of Bridge No. 330048 on NC 8 over US 52	BR-0018	26-186
Repair damaged I-26 drainage pipes	36249.5103	26-142
Davis Mtn Rd repairs	18314.1075038	26-183
Replace bridge 550056 over Cullasaja River on Gold Mine Road (SR 1679)	HB-0037	26-181
Replace bridge 960236 over Branch Elkin Creek	BP11.R039	24-219

NCDOT requested reinitiation of previous completed consultation for the project(s) below due to changes in the project description(s) and resulting changes in bat species effect determinations. Our reinitiation review and concurrence under the WNC Bat PBO are now complete for the following:

Project Title	NCDOT STIP/ID #	USFWS Log #
Replace Structure No. 292085 on SR1436 (Pinebrook School Road)	BP9.C002	24-207

We appreciate the opportunity for review and comment.

Sincerely,

U.S. Fish and Wildlife Service, Asheville Field Office

Tribal Coordination

Catawba Indian Nation
Tribal Historic Preservation Office
1536 Tom Steven Road
Rock Hill, South Carolina 29730

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

October 15, 2024

Attention: Samira Jasmin
NC Department of Transportation
1598 Mail Service Center
Raleigh, NC 27699-1598

Re. THPO #	TCNS #	Project Description
2024-193-254		Replacement of Bridge No. 0048 on Germanton Road over US 52 in Forsyth Co. as project BR-0018

Dear Samira,

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.

Sincerely,

Caitlin Rogers for

Wenonah G. Haire
Tribal Historic Preservation Officer

Historic Architecture, Archaeology, and NEPA Document included with USACE RRS application submittal