



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

J. ERIC BOYETTE
SECRETARY

February 11, 2021

U.S. Army Corps of Engineers
151 Patton Avenue, Room 208
Asheville, NC 28801-5006

ATTN: Ms. Crystal Amschler
NCDOT Coordinator

Subject: **Application for Section 404 Nationwide Permits 13 and 33, and Section 401 Water Quality Certification** for the Proposed Replacement of Bridge 70 on US 52 over Rocky River in Anson and Stanly Counties, Division 10, TIP No. B-4407, Debit \$570 from WBS 38356.1.2.

Dear Madam:

The North Carolina Department of Transportation (NCDOT) proposes to replace bridge number 70 on US 52 over Rocky River with a new bridge just east of the existing alignment. Traffic will utilize the existing bridge during construction.

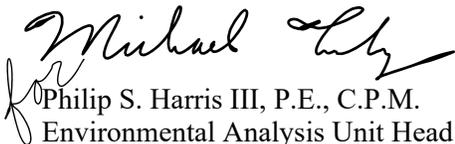
As a result of replacing the existing bridge, there will be 10 linear feet of stream bank stabilization at the outlet of a new ditch, and 0.34 acre of temporary stream impacts from causeways and temporary pipes needed for removal of the existing bridge and construction of the new one.

Please see enclosed copies of the Pre-Construction Notification (PCN), which includes the following attachments: pre-filing notification documentation, bat survey memo, mussel survey memo, Catawba response letter, Stormwater Management Plan, and Permit Drawings. A Minimum Criteria Determination Checklist (MCDC) was completed in May 2018 and distributed shortly thereafter.

This project calls for a letting date of May 18, 2021 and a review date of March 30, 2021.

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

Sincerely,


Philip S. Harris III, P.E., C.P.M.
Environmental Analysis Unit Head

cc: NCDOT Permit Application Standard Distribution List

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

Telephone: (919) 707-6000
Customer Service: 1-877-368-4968
Website: www.ncdot.gov

Location:
1000 BIRCH RIDGE DRIVE
RALEIGH NC 27610



Pre-Construction Notification (PCN) Form

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

October 26, 2020 Ver 3.3

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

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

Below is a link to the online help file.

<https://edocs.deq.nc.gov/WaterResources/0/edoc/624704/PCN%20Help%20File%202018-1-30.pdf>

A. Processing Information

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

Anson

Stanly

Is this a NCDMS Project?*

Yes No

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

Is this project a public transportation project?*

Yes No

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

Is this a NCDOT Project?*

Yes No

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

B-4407

WBS #*

38356.1.2

(for NCDOT use only)

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

Section 404 Permit (wetlands, streams and waters, Clean Water Act)

Section 10 Permit (navigable waters, tidal waters, Rivers and Harbors Act)

Has this PCN previously been submitted?*

Yes

No

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

Nationwide Permit (NWP)

Regional General Permit (RGP)

Standard (IP)

This form may be used to initiate the standard/individual permit process with the Corps. Please contact your Corps representative concerning submittals for standard permits. All required items that are not provided in the E-PCN can be added to the miscellaneous upload area located at the bottom of this form.

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

Yes No

Nationwide Permit (NWP) Number:

33 - Temporary Construction

Nationwide Permit (NWP) Number:

13 - Bank Stabilization

NWP Numbers (for multiple NWPS):

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

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

check all that apply

401 Water Quality Certification - Regular

Non-404 Jurisdictional General Permit

Individual Permit

401 Water Quality Certification - Express

Riparian Buffer Authorization

Pre-Filing Meeting Information

Before submitting this form please ensure you have submitted the Pre-Filing Meeting Request Form as we will not be able to accept your application without this important first step. The Pre-Filing Meeting Request Form is used in accordance with 40 C.F.R. Section 121.4(a) "At least 30 days prior to submitting a certification request, the project proponent shall request a pre-filing meeting with the certifying agency" and in accordance with 40 C.F.R. Section 121.5(b)(7), and (c)(5) all certification requests shall include documentation that a pre-filing meeting request was submitted to the certifying authority at least 30 days prior to submitting the certification request. Click [here](#) to read more information on when this form is needed prior to application submission or [here](#) to view the form.

ID#

Version

Pre-filing Meeting or Request Date *

9/28/2020

Attach documentation of Pre-Filing Meeting Request here: *

B-4407 401 Pre-Filing Notification (Mass 12 MLL Request) 2020-09-28.pdf

417.96KB

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

For the record only for DWR 401 Certification:

Yes No

For the record only for Corps Permit:

Yes No

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

Yes No

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

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

Yes No

Acceptance Letter Attachment

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

FILETYPE MUST BE PDF

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

Yes No

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

Yes No

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

B. Applicant Information

1a. Who is the Primary Contact? *

NCDOT

1b. Primary Contact Email: *

ekcheely@ncdot.gov

1c. Primary Contact Phone: *

(xxx)xxx-xxxx

(919)707-6108

1d. Who is applying for the permit? *

Owner

(Check all that apply)

Applicant (other than owner)

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

Yes No

2. Owner Information

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

NC Department of Transportation

2b. Deed book and page no.:

2c. Responsible party:

(for Corporations)

2d. Address *

Street Address

1598 Mail Service Center

Address Line 2

City

Raleigh

Postal / Zip Code

27699

State / Province / Region

NC

Country

US

2e. Telephone Number: *

(xxx)xxx-xxxx

(919)707-6108

2f. Fax Number:

(xxx)xxx-xxxx

2g. Email Address: *

pharris@ncdot.gov

C. Project Information and Prior Project History

1. Project Information

1a. Name of project: *

B-4407: Replace Bridge 70 over Rocky River on US 52

1b. Subdivision name:

(if appropriate)

1c. Nearest municipality / town: *

Norwood

2. Project Identification

2a. Property Identification Number:

(tax PIN or parcel ID)

2b. Property size:

(in acres)

2c. Project Address

Street Address

Address Line 2

City

Postal / Zip Code

State / Province / Region

Country

2d. Site coordinates in decimal degrees

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

Latitude: *

35.194103

ex: 34.208504

Longitude: *

-80.113281

-77.796371

3. Surface Waters

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

Rocky River

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

C

Surface Water Lookup

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

Yadkin-PeeDee

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

03040105

River Basin Lookup

4. Project Description and History

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

Surrounding land use is primarily agricultural and forested with some residential areas.

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

Yes No Unknown

4d. Attach an 8 1/2 X 11 excerpt from the most recent version of the USGS topographic map indicating the location of the project site. (for DWR)

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

File type must be pdf

4e. Attach an 8 1/2 X 11 excerpt from the most recent version of the published County NRCS Soil Survey map depicting the project site. (for DWR)

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

File type must be pdf

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

0.04

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

(intermittent and perennial)

1150

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

The purpose of the proposed project is to replace a deficient (sufficiency rating 49.12 out of 100) and functionally obsolete bridge.

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

This project is the replacement of Bridge 70 on US 52 over Rocky River. The replacement structure will be a five-span bridge approximately 525 feet long. It will be constructed parallel to and just east of the existing structure. The intersection of SR 1934 (Riverview Road) and US 52 will be shifted further to the east to tie in the realigned roadway. Traffic will be detoured on-site using the existing bridge during construction. Standard road building equipment such as trucks, dozers, and cranes will be used.

4j. Please upload project drawings for the proposed project.

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

B-4407 Final Permit Drawings.pdf

1.04MB

File type must be pdf

5. Jurisdictional Determinations

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

Yes No Unknown

Comments:

Of the delineated resources, only Rocky River and 2 tribs are impacted by this project.

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

Preliminary Approved Not Verified Unknown N/A

Corps AID Number:

Example: SAW-2017-99999

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

Name (if known): Jan Gay, Heather Smith, and David Cooper

Agency/Consultant Company: Ecological Engineering

Other:

5d1. Jurisdictional determination upload

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

File type must be PDF

6. Future Project Plans

6a. Is this a phased project? *

Yes No

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

D. Proposed Impacts Inventory

1. Impacts Summary

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

Wetlands Streams-tributaries Buffers
 Open Waters Pond Construction

3. Stream Impacts

If there are perennial or intermittent stream impacts (including temporary impacts) proposed on the site, then complete this question for all stream sites impacted.

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

| | 3a. Reason for impact [*] (?) | 3b. Impact type [*] | 3c. Type of impact [*] | 3d. S. name [*] | 3e. Stream Type [*] (?) | 3f. Type of Jurisdiction [*] | 3g. S. width [*] | 3h. Impact length [*] |
|----|--|------------------------------|---------------------------------|--------------------------|----------------------------------|---------------------------------------|---------------------------|--------------------------------|
| S1 | Causeway | Temporary | Workpad/Causeway | Rocky River | Perennial | Both | 150 Average (feet) | 30 (linear feet) |
| S2 | Causeway | Temporary | Workpad/Causeway | Rocky River | Perennial | Both | 150 Average (feet) | 30 (linear feet) |
| S3 | Temporary Pipe | Temporary | Dewatering | SF | Perennial | Both | 10 Average (feet) | 44 (linear feet) |
| S4 | Causeway | Temporary | Workpad/Causeway | Rocky River | Perennial | Both | 150 Average (feet) | 30 (linear feet) |
| S5 | Causeway | Temporary | Workpad/Causeway | Rocky River | Perennial | Both | 150 Average (feet) | 30 (linear feet) |
| S6 | Bank Stabilization | Permanent | Bank Stabilization | Rocky River | Perennial | Both | 150 Average (feet) | 10 (linear feet) |
| S7 | Temporary Pipe | Temporary | Dewatering | SH | Intermittent | Both | 2 Average (feet) | 40 (linear feet) |

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

3i. Total jurisdictional ditch impact in square feet:

0

3i. Total permanent stream impacts:

10

3i. Total temporary stream impacts:

204

3i. Total stream and ditch impacts:

214

3j. Comments:

The 30 linear feet of causeway impacts at sites 2 and 5 overlap with the causeway impacts at site 1 and 4, respectively, resulting in a total of 144 linear feet of overall temporary impacts (0.34 acre).

E. Impact Justification and Mitigation

1. Avoidance and Minimization

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

The Sediment and Erosion Control Plan for B-4407 has been designed using Design Standards for Sensitive Watersheds (DSSW). The new bridge has fewer spans, and therefore fewer bents in the water. Rip Rap pads were used at pipe outlets throughout the project to reduce water velocities into wetlands and jurisdictional streams.

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

The existing bridge will be used to detour traffic on-site during construction. NCDOT will adhere to Best Management Practices for Construction and Maintenance Activities.

2. Compensatory Mitigation for Impacts to Waters of the U.S. or Waters of the State

2a. Does the project require Compensatory Mitigation for impacts to Waters of the U.S. or Waters of the State?

Yes No

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

The NCDOT does not propose mitigation for the temporary and bank stabilization impacts associated with this project. These impacts do not require permanent fill in the stream bed, therefore, under Section 404 of the Clean Water Act, do not constitute Loss of Waters of the U.S., and are not subject to compensatory mitigation.

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

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

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

1. Diffuse Flow Plan

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

Yes No

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

If no, explain why:

No buffered resources within project area.

2. Stormwater Management Plan

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

Yes No

Comments:

G. Supplementary Information

1. Environmental Documentation

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

Yes No

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

Yes No

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

Yes No

NEPA or SEPA Final Approval Letter

[Click the upload button or drag and drop files here to attach document](#)

B-4407 2018-05-30 MCDCD.pdf

1.57MB

FILE TYPE MUST BE PDF

2. Violations (DWR Requirement)

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

Yes No

3. Cumulative Impacts (DWR Requirement)

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

Yes No

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

Due to the minimal transportation impact resulting from this bridge replacement, this project will neither influence nearby land uses nor stimulate growth. Therefore, a detailed indirect or cumulative effects study will not be necessary.

4. Sewage Disposal (DWR Requirement)

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

Yes No N/A

5. Endangered Species and Designated Critical Habitat (Corps Requirement)

5a. Will this project occur in or near an area with federally protected species or habitat? *

Yes No

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

Yes No

5d. Is another Federal agency involved? *

Yes No Unknown

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

Yes No

5f. Will you cut any trees in order to conduct the work in waters of the U.S.? *

Yes No

5g. Does this project involve bridge maintenance or removal? *

Yes No

5g(1). If yes, have you inspected the bridge for signs of bat use such as staining, guano, bats, etc.? Representative photos of signs of bat use can be found in the NLEB SLOPES, Appendix F, pages 3-7.

Yes No

Link to the NLEB SLOPES document: http://saw-reg.usace.army.mil/NLEB/1-30-17-signed_NLEB-SLOPES&apps.pdf

If you answered "Yes" to 5g(1), did you discover any signs of bat use? *

Yes No Unknown

*** If yes, please show the location of the bridge on the permit drawings/project plans.

5h. Does this project involve the construction/installation of a wind turbine(s)?*

Yes No

5i. Does this project involve (1) blasting, and/or (2) other percussive activities that will be conducted by machines, such as jackhammers, mechanized pile drivers, etc.?

Yes No

If yes, please provide details to include type of percussive activity, purpose, duration, and specific location of this activity on the property.

[Click the upload button or drag and drop files here to attach document](#)

File must be PDF

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

As of 7/17/20, the United States Fish and Wildlife Service (USFWS) and National Oceanic and Atmospheric Administration (NOAA) list five protected species for Anson County and two protected species for Stanly County. There is no habitat present within the project area for red-cockaded woodpecker, Atlantic sturgeon, or shortnose sturgeon (per Fritz Rohde from NOAA, all records of sturgeon in Anson County are limited to the mainstem of the PeeDee River). Habitat is present for Schweinitz's sunflower, however surveys of all potential habitat in the project area were conducted in August 2016 and October 2019, and no individuals of this species were observed.

The bridge was surveyed for potential habitat for northern long-eared bat in July 2019. While roosting crevices were present on the structure, no evidence of bats was observed.

Habitat is present for Carolina heelsplitter, and while none were found in a 2018 survey, the presence of habitat and other mussel species in the area result in a biological conclusion of May Affect, Not Likely to Affect.

Documentation of the bat and mussel surveys are attached to this memo.

Consultation Documentation Upload

[Click the upload button or drag and drop files here to attach document](#)

B-4407 SLOPES Memo.pdf 837.17KB

B-4407 Mussel Survey Report.pdf 367.24KB

File type must be PDF

6. Essential Fish Habitat (Corps Requirement)

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

Yes No

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

NMFS County Index

7. Historic or Prehistoric Cultural Resources (Corps Requirement)

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

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

Yes No

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

MCDC and Tribal Coordination

7c. Historic or Prehistoric Information Upload

[Click the upload button or drag and drop files here to attach document](#)

B-4407 Catawba Response 2020-193-64.pdf 610.91KB

File must be PDF

8. Flood Zone Designation (Corps Requirement)

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

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

Yes No

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

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

FEMA Maps

Miscellaneous



Comments

Tree clearing acreage is 0.326 acre.

Miscellaneous attachments not previously requested.

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

B-4407 Cover Letter.pdf

190.94KB

File must be PDF or KMZ

Signature



*

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

- The project proponent hereby certifies that all information contained herein is true, accurate, and complete to the best of my knowledge and belief; and
- The project proponent hereby requests that the certifying authority review and take action on this CWA 401 certification request within the applicable reasonable period of time.
- I have given true, accurate, and complete information on this form;
- I agree that submission of this PCN form is a "transaction" subject to Chapter 66, Article 40 of the NC General Statutes (the "Uniform Electronic Transactions Act");
- I agree to conduct this transaction by electronic means pursuant to Chapter 66, Article 40 of the NC General Statutes (the "Uniform Electronic Transactions Act");
- I understand that an electronic signature has the same legal effect and can be enforced in the same way as a written signature; AND
- I intend to electronically sign and submit the PCN form.

Full Name:*

Michael Anthony Turchy

Signature*



Michael Turchy

Date

2/11/2021

RE: Pre-Filing Notification for Raleigh Let Projects in the 12 MLL

Carpenter, Kristi <kristilynn.carpenter@ncdenr.gov>

Wed 10/21/2020 5:36 PM

To: Dagnino, Carla S <cdagnino@ncdot.gov>; Chapman, Amy <amy.chapman@ncdenr.gov>; Wanucha, Dave <dave.wanucha@ncdenr.gov>; Hood, Donna <donna.hood@ncdenr.gov>; Ridings, Rob <rob.ridings@ncdenr.gov>; Steenhuis, Joanne <joanne.steenhuis@ncdenr.gov>; Ward, Garcy <garcy.ward@ncdenr.gov>

Cc: Barrett, William A <wabarrett@ncdot.gov>; Cheely, Erin K <ekcheely@ncdot.gov>; Cashin, Gordon E <gcashin@ncdot.gov>; Rivenbark, Chris <crivenbark@ncdot.gov>; Dilday, Jason L <jldilday@ncdot.gov>; Hemphill, Jeffrey L <jhemphill@ncdot.gov>; Riffey, Deanna <driffey@ncdot.gov>; Turchy, Michael A <maturchy@ncdot.gov>; Murray, Christopher A <camurray@ncdot.gov>; Price, Gregory W <gwprice2@ncdot.gov>; Hining, Kevin J <kjhining@ncdot.gov>; Harris, Philip S <pharris@ncdot.gov>

 1 attachments (18 KB)

Pre Filing Notification List of Projects from 12 MLL Through Sept 21 to NCDWR (002).xlsx;

All,

Please see the attached spreadsheet which has added columns with the DWR project and version number for each project listed along a link to each project in Laserfiche.

All notifications are in our system with the original notification date of 9/28/2020.

Please utilize the added DWR information when sending the applications for the listed projects.

Please contact me if there are any questions/concerns.

Thanks,

Kristi Lynn Carpenter

From: Dagnino, Carla S <cdagnino@ncdot.gov>

Sent: Monday, September 28, 2020 12:09 PM

To: Chapman, Amy <amy.chapman@ncdenr.gov>; Carpenter, Kristi <kristilynn.carpenter@ncdenr.gov>; Wanucha, Dave <dave.wanucha@ncdenr.gov>; Hood, Donna <donna.hood@ncdenr.gov>; Ridings, Rob <rob.ridings@ncdenr.gov>; Steenhuis, Joanne <joanne.steenhuis@ncdenr.gov>; Ward, Garcy <garcy.ward@ncdenr.gov>

Cc: Barrett, William A <wabarrett@ncdot.gov>; Cheely, Erin K <ekcheely@ncdot.gov>; Cashin, Gordon E <gcashin@ncdot.gov>; Rivenbark, Chris <crivenbark@ncdot.gov>; Dilday, Jason L <jldilday@ncdot.gov>; Hemphill, Jeffrey L <jhemphill@ncdot.gov>; Riffey, Deanna <driffey@ncdot.gov>; Turchy, Michael A <maturchy@ncdot.gov>; Murray, Christopher A <camurray@ncdot.gov>; Price, Gregory W <gwprice2@ncdot.gov>; Hining, Kevin J <kjhining@ncdot.gov>; Harris, Philip S <pharris@ncdot.gov>

Subject: Pre-Filing Notification for Raleigh Let Projects in the 12 MLL

All,

Please see the attached letter and request for the Pre-Filing Notification. We are not requesting a meeting for the attached projects and would like this letter and attachment to represent the notification in Laser Fiche.

If you have any questions about this, please contact me.

Thank you!

Carla

Carla Dagnino

Environmental Coordination and Permitting Group Leader

Environmental Analysis Unit

NC Department of Transportation

919 707 6110 Office

919 602 9452 Cell

cdagnino@ncdot.gov

1598 Mail Service Center

Raleigh, NC 27699 -1598

1000 Birch Ridge Drive

Raleigh, NC 27610

**Projects Potentially Requiring Notification per New 401 EPA Rule
12 Month Let List SEPT 2020 - SEPT 2021 (from 36 Month Let List)**

| DWR Rep | NCDOT Contact | Let Date | TIP | Let Type | Div | County | Project Description | Type of Previous DWR Correspondence | DWR # | Version # | Received Laserfiche Link |
|-----------|-----------------|------------|--------------|-----------------|-----|-------------------|---|---|----------|-----------|---|
| Wanucha | Bill Barrett | 09/21/2021 | B-5728 | Raleigh Letting | 7 | Alamance | REPLACE BRIDGE 112 OVER REEDY FORK CREEK IN OSSIPEE ON NC 87 | No Files found in Laserfiche | 20201505 | 1 | 9/28/2020 https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326036&dbid=0&repo=WaterResources |
| Hood | Erin Cheely | 05/18/2021 | B-4407 | Raleigh Letting | 10 | Anson, Stanly | BRIDGE 70 OVER ROCKY RIVER ON US 52 | No Files found in Laserfiche | 20201506 | 1 | 9/28/2020 https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326038&dbid=0&repo=WaterResources |
| Hood | Erin Cheely | 03/16/2021 | B-5818 | Raleigh Letting | 10 | Anson | REPLACE BRIDGE 11 OVER DEADFALL CREEK ON NC 109 | No Files found in Laserfiche | 20201507 | 1 | 9/28/2020 https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326055&dbid=0&repo=WaterResources |
| Hood | Bill Barrett | 07/20/2021 | BR-0107 | Raleigh Letting | 12 | Iredell | SR 1577 BRIDGE 131 REPLACE BRIDGE 131 OVER TO SNOW CREEK. | No Files found in Laserfiche | 20201508 | 1 | 9/28/2020 https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326056&dbid=0&repo=WaterResources |
| Hood | Rail Division | 08/17/2021 | P-5705A | Raleigh Letting | 10 | Mecklenburg | CHARLOTTE WYE CONNECTION - RAIL | No Files found in Laserfiche | 20181692 | 2 | 9/28/2020 https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326025&dbid=0&repo=WaterResources |
| Ridings | Chris Murray | 02/16/2021 | B-5318 | DDRL | 5 | Wake | REPLACE BRIDGE 910126 OVER SMITHS CREEK SR 2044 (LIGON MILLROAD) IN WAKE FOREST | Laserfiche Files: Scoping Letter | 20201509 | 1 | 9/28/2020 https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326057&dbid=0&repo=WaterResources |
| Steenhuis | Gordon Cashin | 07/20/2021 | B-5624 | Raleigh Letting | 3 | Brunswick | BRIDGE 57 OVER JUNIPER CREEK ON NC 211 | Laserfiche Files: P/JD Package | 20201510 | 1 | 9/28/2020 https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326058&dbid=0&repo=WaterResources |
| Steenhuis | Gordon Cashin | 07/20/2021 | B-5642 | Raleigh Letting | 3 | Brunswick | BRIDGE 65 OVER HOOD CREEK ON NC 87 | No Files found in Laserfiche | 20201511 | 1 | 9/28/2020 https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326059&dbid=0&repo=WaterResources |
| Steenhuis | Chris Rivenbark | 05/18/2021 | BR-0017 | Raleigh Letting | 3 | Duplin | BRIDGE 300012 ON NC 11 OVER LITTLE ROCKFISH CREEK | Laserfiche Files: P/JD Package | 20201512 | 1 | 9/28/2020 https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326060&dbid=0&repo=WaterResources |
| Steenhuis | Greg Price | 07/20/2021 | I-5878 | DDRL | 6 | Harnett | I-95 AT US 421 (EXIT 73) AND SR 1793 (POPE ROAD) (EXIT 72). IMPROVE INTERCHANGES. WIDEN TO EIGHT LANES. (COMB W/I-5883 & I-5886B). | No Files found in Laserfiche | 20201513 | 1 | 9/28/2020 https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326061&dbid=0&repo=WaterResources |
| Steenhuis | Greg Price | 07/20/2021 | I-5883 | DDRL | 6 | Harnett | I-95 AT SR 1808 (JONESBORO ROAD) (EXIT 75) TO NORTH OF SR 1709 (HODGES CHAPEL ROAD) (EXIT 77). IMPROVE INTERCHANGES. WIDEN TO EIGHT LANES. (COMB W/I-5878 & I-5886B). | Laserfiche Files: Scoping Letter and JD Request | 20201514 | 1 | 9/28/2020 https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326062&dbid=0&repo=WaterResources |
| Steenhuis | Greg Price | 07/20/2021 | I-5986B | DDRL | 6 | Harnett, Johnston | I-95 FROM SR 1709 (HODGES CHAPEL ROAD - EXIT 77) TO I-40 (EXIT 81). WIDEN TO EIGHT LANES HARNETT/JONSTON COUNTIES. (COMB W/I-5878 & I-5883). | No Files found in Laserfiche | 20190214 | 3 | 9/28/2020 https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326029&dbid=0&repo=WaterResources |
| Steenhuis | Jason Dilday | 04/20/2021 | R-2561CA | DDRL | 6 | Columbus | NC 87 AT NC 11. CONSTRUCT INTERCHANGE. | Laserfiche Files: P/JD Package | 20201515 | 1 | 9/28/2020 https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326063&dbid=0&repo=WaterResources |
| Steenhuis | Greg Price | 04/20/2021 | R-5797 | DDRL | 6 | Columbus | US 74 AT SR 1506 (BOARDMAN ROAD) | Laserfiche Files: P/JD Package | 20201516 | 1 | 9/28/2020 https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326064&dbid=0&repo=WaterResources |
| Wanucha | Kevin Hining | 07/20/2021 | 17BP.11.R.15 | DDRL | 11 | Wilkes | BRIDGE 419 ON SR 1148 OVER NAKED CREEK. | No Files found in Laserfiche | 20201517 | 1 | 9/28/2020 https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326065&dbid=0&repo=WaterResources |
| Wanucha | Erin Cheely | 06/15/2021 | BR-0048 | Raleigh Letting | 11 | Surry | BRIDGE 103 ON NC 268 OVER MITCHELL RIVER REPLACE BRIDGE. | Laserfiche Files: Start of Study Letter | 20201518 | 1 | 9/28/2020 https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326066&dbid=0&repo=WaterResources |
| Wanucha | Jeff Hemphill | 07/20/2021 | BR-0108 | Raleigh Letting | 11 | Wilkes | SR 2418 BRIDGE 4 REPLACE BRIDGE 4 OVER LITTLE HUNTING CREEK. | No Files found in Laserfiche | 20201519 | 1 | 9/28/2020 https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326067&dbid=0&repo=WaterResources |
| Ward | Jason Dilday | 09/21/2021 | B-4926 | DDRL | 2 | Lenoir | NEUSE RIVER - REPLACE BRIDGE NO. 20 AND 34 OVER NEUSE RIVER/OVERFLOW ON NC 55 | Laserfiche Files: Previous NW 6 | 20181733 | 2 | 9/28/2020 https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326028&dbid=0&repo=WaterResources |
| Ward | Deanna Riffey | 09/21/2021 | B-5614 | Raleigh Letting | 2 | Beaufort | REPLACE BRIDGE 9 OVER BLOUNTS CREEK ON SR 1112 | No Files found in Laserfiche | 20201520 | 1 | 9/28/2020 https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326068&dbid=0&repo=WaterResources |
| Ward | Deanna Riffey | 05/18/2021 | B-5619 | Raleigh Letting | 2 | Lenoir | REPLACE BRIDGE 52 OVER NEUSE RIVER AND REPLACE BRIDGE 152 OVER NEUSE RIVER OVERFLOW ON SR 1389 (HARDY BRIDGE ROAD) | No Files found in Laserfiche | 20201521 | 1 | 9/28/2020 https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326069&dbid=0&repo=WaterResources |
| Ward | Deanna Riffey | 09/21/2021 | BR-0004 | Raleigh Letting | 2 | Beaufort | BRIDGE 060066 ON US 264 OVER PUNGO RIVER | No Files found in Laserfiche | 20201522 | 1 | 9/28/2020 https://edocs.deq.nc.gov/WaterResources/Browse.aspx?id=1326070&dbid=0&repo=WaterResources |



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



(Version 2.08; Released April 2018)

WBS Element: 38356.1.2 **TIP No.:** B-4407 **County(ies):** Stanly Anson **Page** 1 **of** 3

General Project Information

| | | | | | | | |
|--|-----------------------|---|-------------------------------|----------------------|--------------------|--|-----------|
| WBS Element: | 38356.1.2 | TIP Number: | B-4407 | Project Type: | Bridge Replacement | Date: | 1/29/2021 |
| NCDOT Contact: | Tierre Peterson | | Contractor / Designer: | Jon Ford, PE | | | |
| | Address: | 1000 BIRCH RIDGE DRIVE RALEIGH, NC 27610 | | | Address: | 1800E Associates Lane Charlotte, NC 28217 | |
| | Phone: | 919-707-6488 | | | Phone: | 704-357-0488 | |
| | Email: | trpeterson@ncdot.gov | | | Email: | | |
| City/Town: | Norwood/Wadesboro, NC | | | County(ies): | Stanly | Anson | |
| River Basin(s): | Yadkin-Pee Dee | | | CAMA County? | No | No | |
| Wetlands within Project Limits? | No | | | | | | |

Project Description

| | | | |
|--|--|------------------------------|---|
| Project Length (lin. miles or feet): | 0.55 Miles | Surrounding Land Use: | Undeveloped |
| | Proposed Project | | Existing Site |
| Project Built-Upon Area (ac.) | 2.3 ac. | | 2.0 ac. |
| Typical Cross Section Description: | 2-lane undivided | | 2-lane undivided |
| Annual Avg Daily Traffic (veh/hr/day): | Design/Future: 4900 | Year: 2040 | Existing: 4100 Year: 2020 |
| General Project Narrative: (Description of Minimization of Water Quality Impacts) | <p>B-4407 involves the replacement of the existing bridge 70 on US-52 over Rocky River and 0.65 miles of roadway improvements. The existing typical section is a 2-lane undivided facility consisting of 12-foot travel lanes. The proposed typical section retains the 2-lane facility with a new alignment to allow the construction of the new bridge while maintaining the existing. Jurisdictional features including wetlands and a crossing of Rocky River are present within project limits. The proposed roadway improvements will require ditch realignment and the addition of new drainage systems to convey runoff at the ends of the proposed bridge. Rip Rap pads were used at pipes outlets throughout the project to reduce water velocities into wetlands and jurisdictional streams. The Sediment and Erosion Control Plan for B-4407 has been designed using Design Standards for Sensitive Watersheds (DSSW) criteria for jurisdictional streams flowing into the Yadkin-Pee Dee. DSSW designation requires special procedures to be followed for construction activities within 50' of each designated stream. Post Construction Stormwater Program will be implemented throughout B-4407 to the maximum extent practical.</p> | | |

Waterbody Information

| | | | | | | |
|--|--|--|--------------------------------|--|-----|--|
| Surface Water Body (1): | SG - Rocky River | | NCDWR Stream Index No.: | 13-17 | | |
| 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: | SG | | Buffer Rules in Effect: | N/A | | |
| Project Includes Bridge Spanning Water Body? | Yes | Deck Drains Discharge Over Buffer? | No | Dissipator Pads Provided in Buffer? | N/A | |
| Deck Drains Discharge Over Water Body? | No | (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) | | | | | |



North Carolina Department of Transportation

Highway Stormwater Program
STORMWATER MANAGEMENT PLAN
 FOR NCDOT PROJECTS



(Version 2.08; Released April 2018)

WBS Element: 38356.1.2 TIP No.: B-4407 County(ies): Stanly Anson Page 2 of 3

Additional Waterbody Information

| | | | | | |
|---|--|--|-------------------------|--|-----|
| Surface Water Body (2): | SF - UT to Rocky River | | NCDWR Stream Index No.: | 13-17 | |
| 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: | SF | | 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): | SH - UT to Rocky River | | NCDWR Stream Index No.: | 13-17 | |
| 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: | SH | | Buffer Rules in Effect: | | |
| 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) | | | | |



North Carolina Department of Transportation

Highway Stormwater Program
STORMWATER MANAGEMENT PLAN
FOR NCDOT PROJECTS



(Version 2.08; Released April 2018)

WBS Element: 38356.1.2

TIP No.: B-4407

County(ies): Stanly Anson

Page 3 of 3

Swales

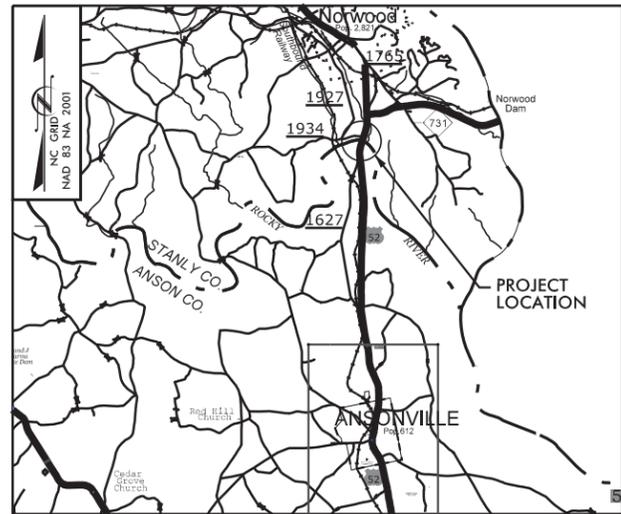
| Sheet No. | Station & Coordinates (Road and Non Road Projects) | Surface Water Body | Base Width (ft) | Front Slope (H:1) | Back Slope (H:1) | Drainage Area (ac) | Recommended Treatm't Length (ft) | Actual Length (ft) | Longitudinal Slope (%) | Q2 (cfs) | V2 (fps) | Q10 (cfs) | V10 (fps) | Rock Checks Used | BMP Associated w/ Buffer Rules? |
|-----------|--|---------------------|-----------------|-------------------|------------------|--------------------|----------------------------------|--------------------|------------------------|----------|----------|-----------|-----------|------------------|---------------------------------|
| 5 | Sta. 12+00 -L1- Rt. | (1)SG - Rocky River | 2.0 | 6.0 | 4.0 | 0.5 | 50 | 250 | 0.49% | | | 1.3 | | No | No |
| | Sta. 14+50 -L1- Rt. | (1)SG - Rocky River | 0.0 | 6.0 | 4.0 | 1.0 | 100 | 550 | 1.49% | | | 4.0 | | No | No |
| 4 | Sta. 14+50-L1- Rt. | (1)SG - Rocky River | 0.0 | 6.0 | 5.0 | 1.3 | 130 | 150 | 2.77% | | | 5.0 | | No | No |
| | Sta. 20+00 -L1- Rt. | (1)SG - Rocky River | 0.0 | 6.0 | 4.0 | 1.7 | 170 | 200 | 2.76% | | | 6.9 | | No | No |
| 4 | Sta. 20+00 -L1- Rt. | (1)SG - Rocky River | 2.0 | 2.0 | 2.0 | 3.1 | 310 | 707 | 4.10% | | | 9.6 | | No | No |
| | Sta. 21+50 -L1- Rt. | (1)SG - Rocky River | 0.0 | 6.0 | 4.0 | 0.9 | 87 | 76 | 4.22% | | | 2.8 | | No | No |
| 6 | Sta. 21+50 -L1- Rt. | (1)SG - Rocky River | 0.0 | 6.0 | 2.0 | 0.9 | 87 | 50 | 4.68% | | | 2.8 | | No | No |
| | Sta. 23+50 -L1- Rt. | (1)SG - Rocky River | 0.0 | 6.0 | 4.0 | 0.5 | 47 | 350 | 4.45% | | | 2.1 | | No | No |
| 5 | Sta. 23+50 -L1- Rt. | (1)SG - Rocky River | 0.0 | 6.0 | 6.0 | 0.5 | 47 | 250 | 3.99% | | | 2.1 | | No | No |
| | Sta. 30+57 -L1- Rt. | (1)SG - Rocky River | 0.0 | 6.0 | 6.0 | 0.2 | 19 | 100 | 0.71% | | | 0.8 | | No | No |
| 6 | Sta. 37+74 -L1- Rt. | (1)SG - Rocky River | 0.0 | 6.0 | 4.0 | 0.5 | 47 | 150 | 0.43% | | | 1.4 | | No | No |
| | Sta. 38+50 -L1- Rt. | (1)SG - Rocky River | 0.0 | 6.0 | 4.0 | 1.0 | 95 | 150 | 1.17% | | | 2.5 | | No | No |
| 6 | Sta. 38+50 -L1- Rt. | (1)SG - Rocky River | 0.0 | 6.0 | 4.0 | 1.9 | 191 | 500 | 2.48% | | | 4.7 | | No | No |
| | Sta. 39+00 -L1- Rt. | (1)SG - Rocky River | 2.0 | 6.0 | 4.0 | 3.0 | 298 | 250 | 5.81% | | | 6.1 | | No | No |
| 6 | Sta. 39+00 -L1- Rt. | (1)SG - Rocky River | 0.0 | 6.0 | 4.0 | 1.9 | 186 | 150 | 5.42% | | | 2.4 | | No | No |
| | Sta. 42+50 -L1- Rt. | (1)SG - Rocky River | 0.0 | 6.0 | 5.0 | 1.4 | 141 | 100 | 4.63% | | | 1.9 | | No | No |
| 6 | Sta. 42+50 -L1- Rt. | (1)SG - Rocky River | | | | | | | | | | | | | |
| | Sta. 45+00 -L1- Rt. | (1)SG - Rocky River | | | | | | | | | | | | | |
| 4 | Sta. 13+50 -L1- Lt. | (1)SG - Rocky River | | | | | | | | | | | | | |
| | Sta. 14+50 -L1- Lt. | (1)SG - Rocky River | | | | | | | | | | | | | |
| 4 | Sta. 14+50 -L1- Lt. | (1)SG - Rocky River | | | | | | | | | | | | | |
| | Sta. 16+00 -L1- Lt. | (1)SG - Rocky River | | | | | | | | | | | | | |
| 4 | Sta. 16+00 -L1- Lt. | (1)SG - Rocky River | | | | | | | | | | | | | |
| | Sta. 17+50 -L1- Lt. | (1)SG - Rocky River | | | | | | | | | | | | | |
| 4 | Sta. 17+50 -L1- Lt. | (1)SG - Rocky River | | | | | | | | | | | | | |
| | Sta. 22+50 -L1- Lt. | (1)SG - Rocky River | | | | | | | | | | | | | |
| 6 | Sta. 37+50 -L1- Lt. | (1)SG - Rocky River | | | | | | | | | | | | | |
| | Sta. 40+00 -L1- Lt. | (1)SG - Rocky River | | | | | | | | | | | | | |
| 6 | Sta. 40+00 -L1- Lt. | (1)SG - Rocky River | | | | | | | | | | | | | |
| | Sta. 41+50 -L1- Lt. | (1)SG - Rocky River | | | | | | | | | | | | | |
| 6 | Sta. 43+00 -L1- Lt. | (1)SG - Rocky River | | | | | | | | | | | | | |
| | Sta. 44+00 -L1- Lt. | (1)SG - Rocky River | | | | | | | | | | | | | |

Additional Comments

Blank area for additional comments.

TIP PROJECT: B-4407

See Sheet 1A For Index of Sheets



VICINITY MAP (N.T.S.)

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

ANSON /STANLY COUNTIES

LOCATION: REPLACE BRIDGE NO. 030070 OVER
ROCKY RIVER ON US-52

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

| STATE | STATE PROJECT REFERENCE NO. | SHEET NO. | TOTAL SHEETS |
|-----------------|-----------------------------|----------------|--------------|
| N.C. | B-4407 | 1 | |
| STATE PROJ. NO. | F.A. PROJ. NO. | DESCRIPTION | |
| 38356.1.2 | NA | PE | |
| 38356.1.2 | NA | RW & UTILITIES | |
| 38356.1.2 | NA | CONST. | |



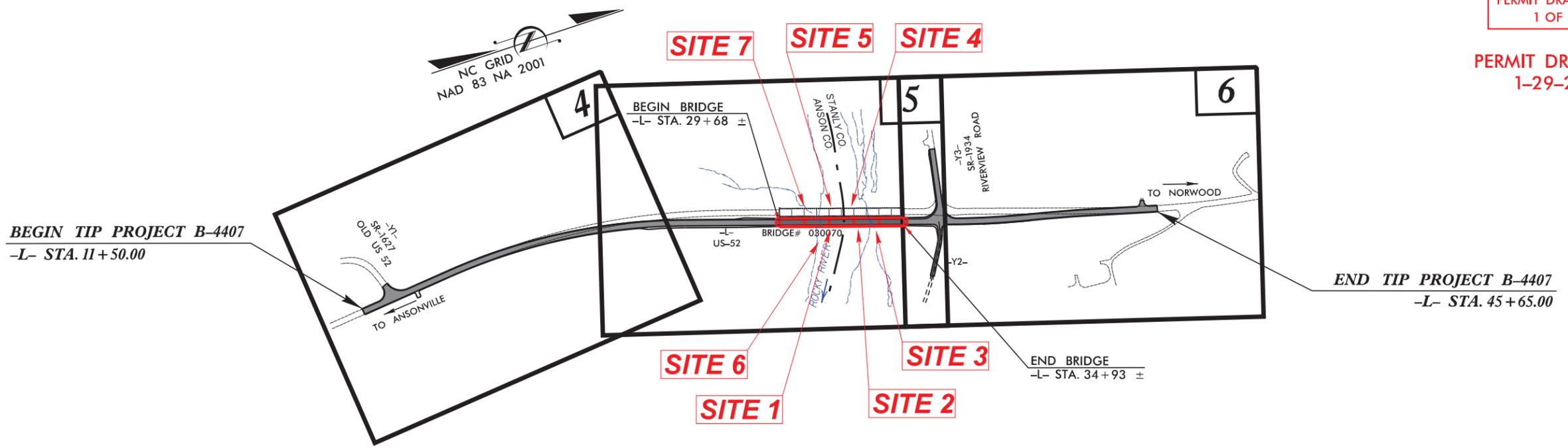
V&M
Vaughn & Melton
Consulting Engineers

Charlotte, North Carolina 704-367-0488
Tri-Cities, Tennessee 423-467-8400
Knoxville, Tennessee 865-546-8800
Middlesboro, Kentucky 606-248-8400
Spartanburg, South Carolina 864-574-4775

Asheville, North Carolina 828-253-2796

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WETLAND AND SURFACE WATER IMPACTS PERMIT



PERMIT DRAWINGS
1 OF 6

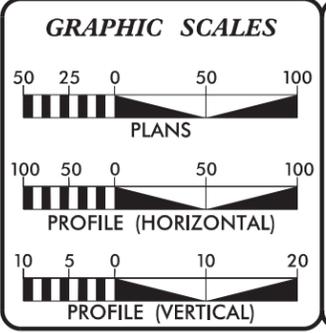
PERMIT DRAWINGS
1-29-2021

DESIGN EXCEPTION REQUIRED FOR MAXIMUM VERTICAL GRADE -L- STA. 34+35.00 TO 43+75.00

THERE IS NO CONTROL OF ACCESS ON THIS PROJECT. THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD.

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

CONTRACT:



DESIGN DATA

ADT 2015 = 3900
ADT 2040 = 4900
D = 60%
K = 9%
T = 22%
*TTST = 8% DUAL = 14%
FUNCT. CLASS =
PRINCIPAL ARTERIAL
REGIONAL TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-4407 = 0.548 MI
LENGTH STRUCTURE TIP PROJECT B-4407 = 0.099 MI
TOTAL LENGTH OF TIP PROJECT B-4407 = 0.647 MI

Prepared in the Office of:
VAUGHN & MELTON
1318-F PATTON AVE.
ASHEVILLE NC, 28806
FOR THE NORTH CAROLINA DIVISION OF HIGHWAYS

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
MAY 20, 2019

LETTING DATE:
MAY 19, 2020

REECE SCHULER, PE, PLS
PROJECT ENGINEER

JOHN LANSFORD, PE
PROJECT DESIGN ENGINEER

DAVID STUTTS, PE
NCDOT CONTACT

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.



\$\$\$\$\$SYTIME\$\$\$\$\$
\$\$\$\$\$DDN\$\$\$\$\$
\$\$\$\$\$SERNAME\$\$\$\$\$

8/17/99

WETLAND & STREAM IMPACTS

PERMIT DRAWING
SHEET 2 OF 6

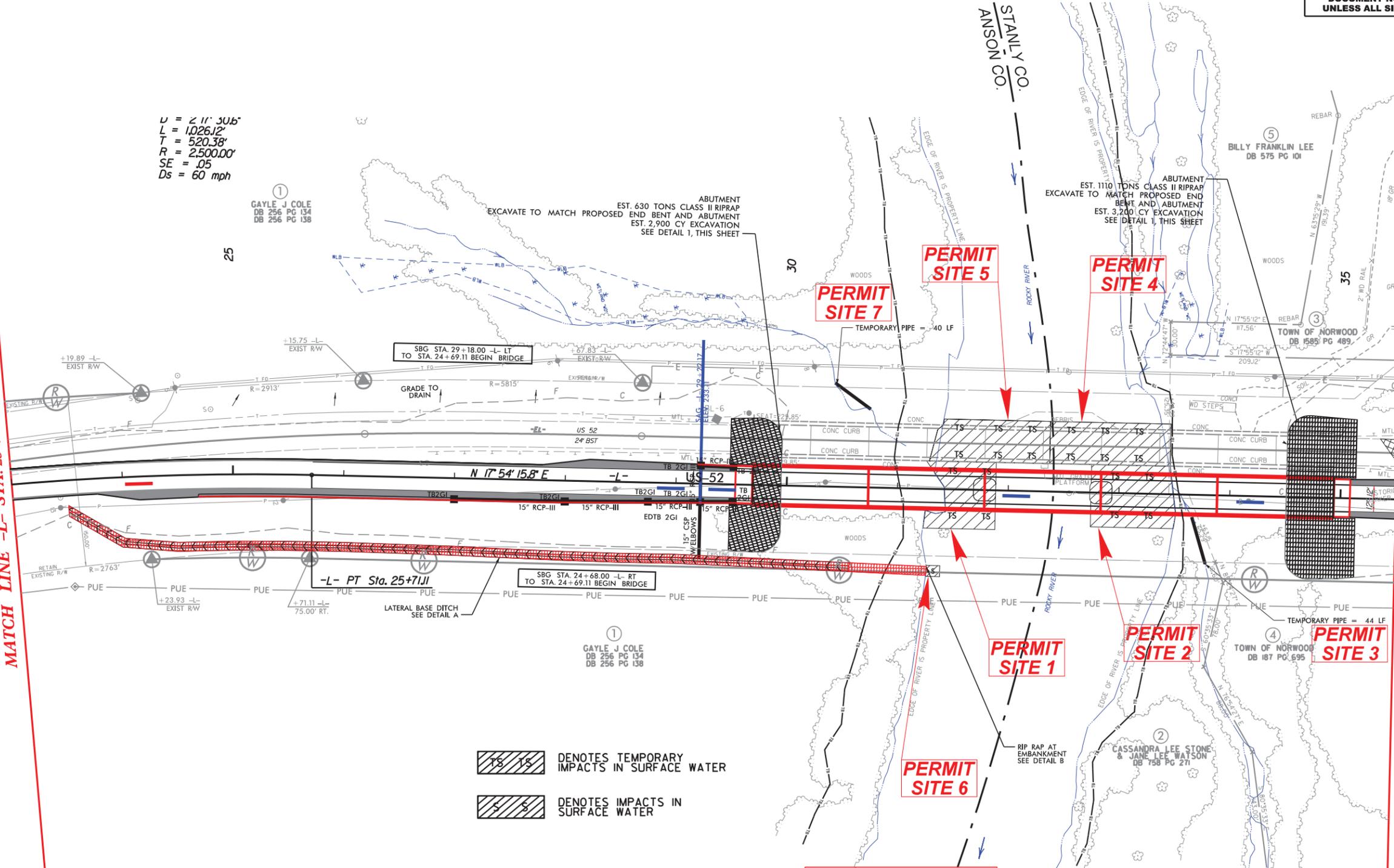
| | |
|--|---------------------|
| PROJECT REFERENCE NO. B-4407 | SHEET NO. 2A |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | |



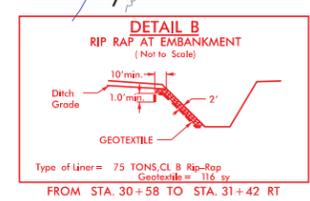
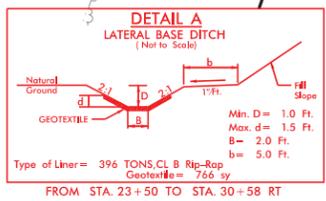
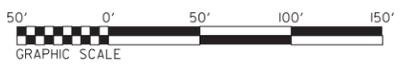
MATCH LINE -L- STA. 23+00.00 SEE SHEET 4

MATCH LINE -L- STA. 35+50.00 SEE SHEET 6

$V = 211' 30.6"$
 $L = 1,026.12'$
 $T = 520.38'$
 $R = 2,500.00'$
 $SE = .05$
 $Ds = 60 \text{ mph}$



DENOTES TEMPORARY IMPACTS IN SURFACE WATER
 DENOTES IMPACTS IN SURFACE WATER



CUSTOMER'S COPY TO BE DESTROYED AFTER PROJECT COMPLETION

8/17/99

WETLAND & STREAM IMPACTS

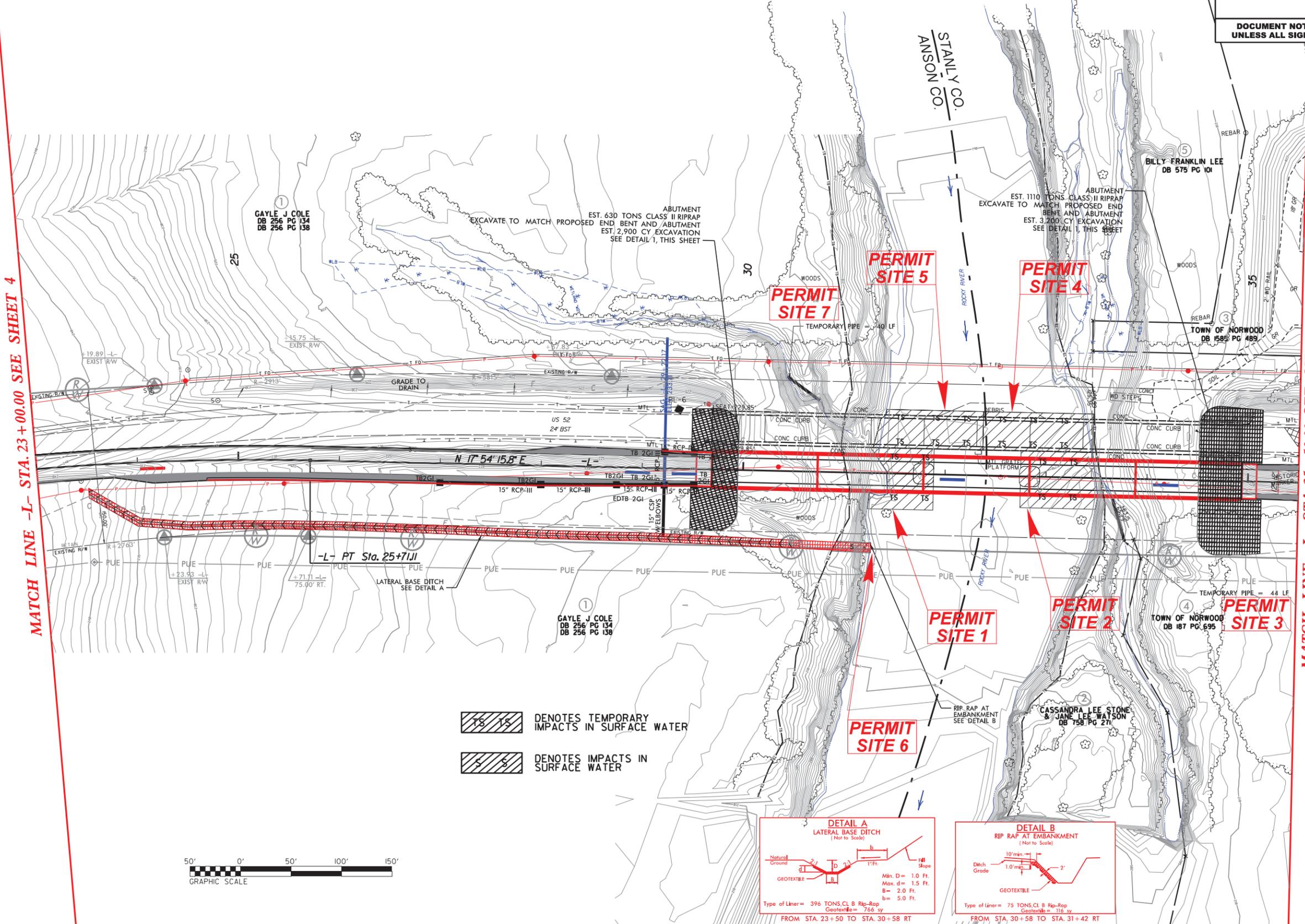
PERMIT DRAWING
SHEET 3 OF 6

| | |
|--|---------------------|
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| RW SHEET NO. | |
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| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | |



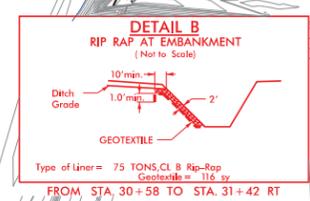
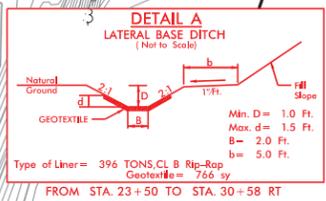
MATCH LINE -L- STA. 23+00.00 SEE SHEET 4

MATCH LINE -L- STA. 35+50.00 SEE SHEET 6



DENOTES TEMPORARY IMPACTS IN SURFACE WATER

DENOTES IMPACTS IN SURFACE WATER



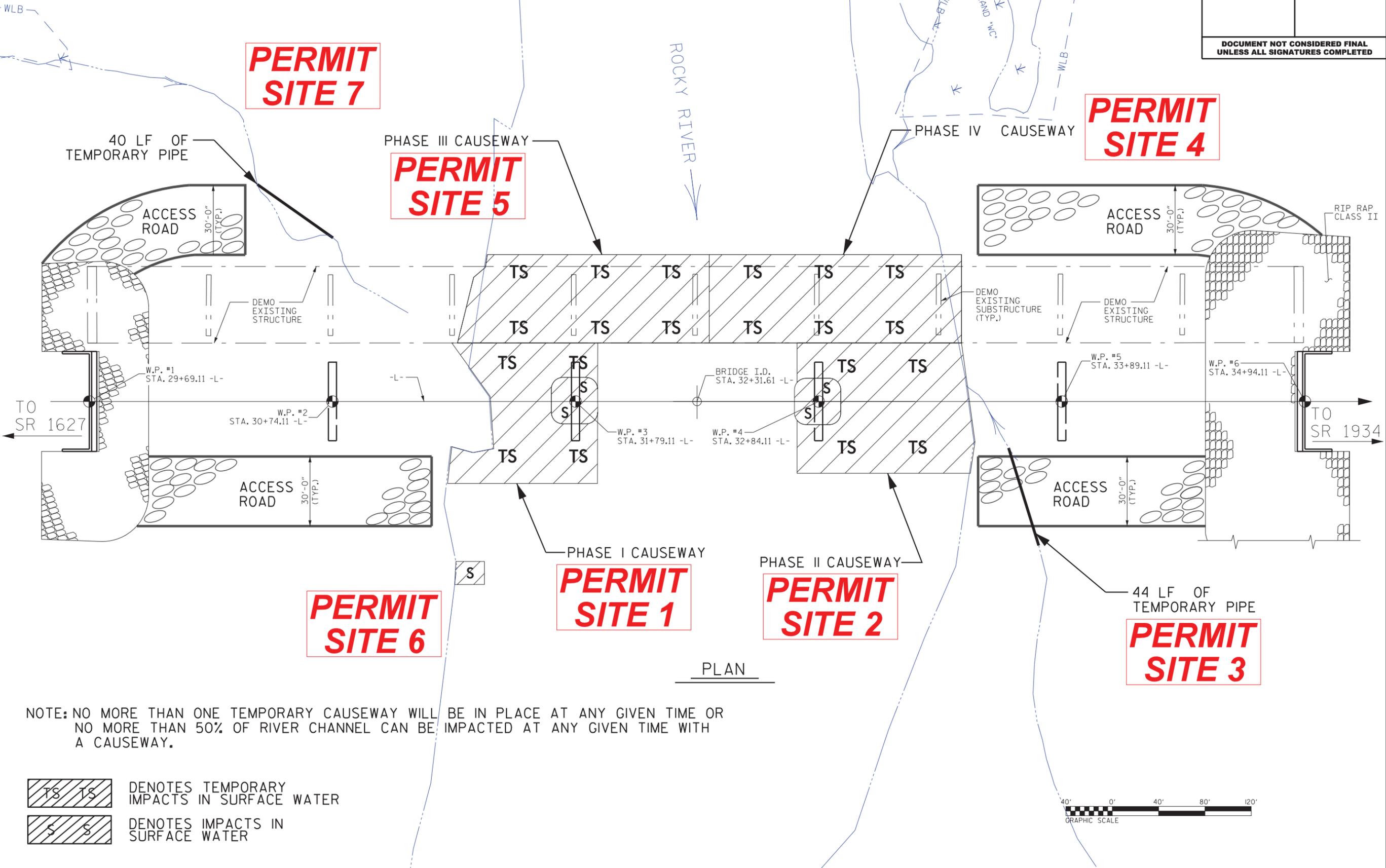
8/17/99

8/17/99

WETLAND & STREAM IMPACTS CAUSEWAY PHASING

**PERMIT DRAWING
SHEET 4 OF 6**

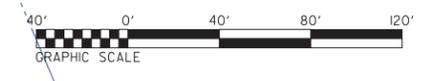
| | |
|--|---------------------|
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| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | |



PLAN

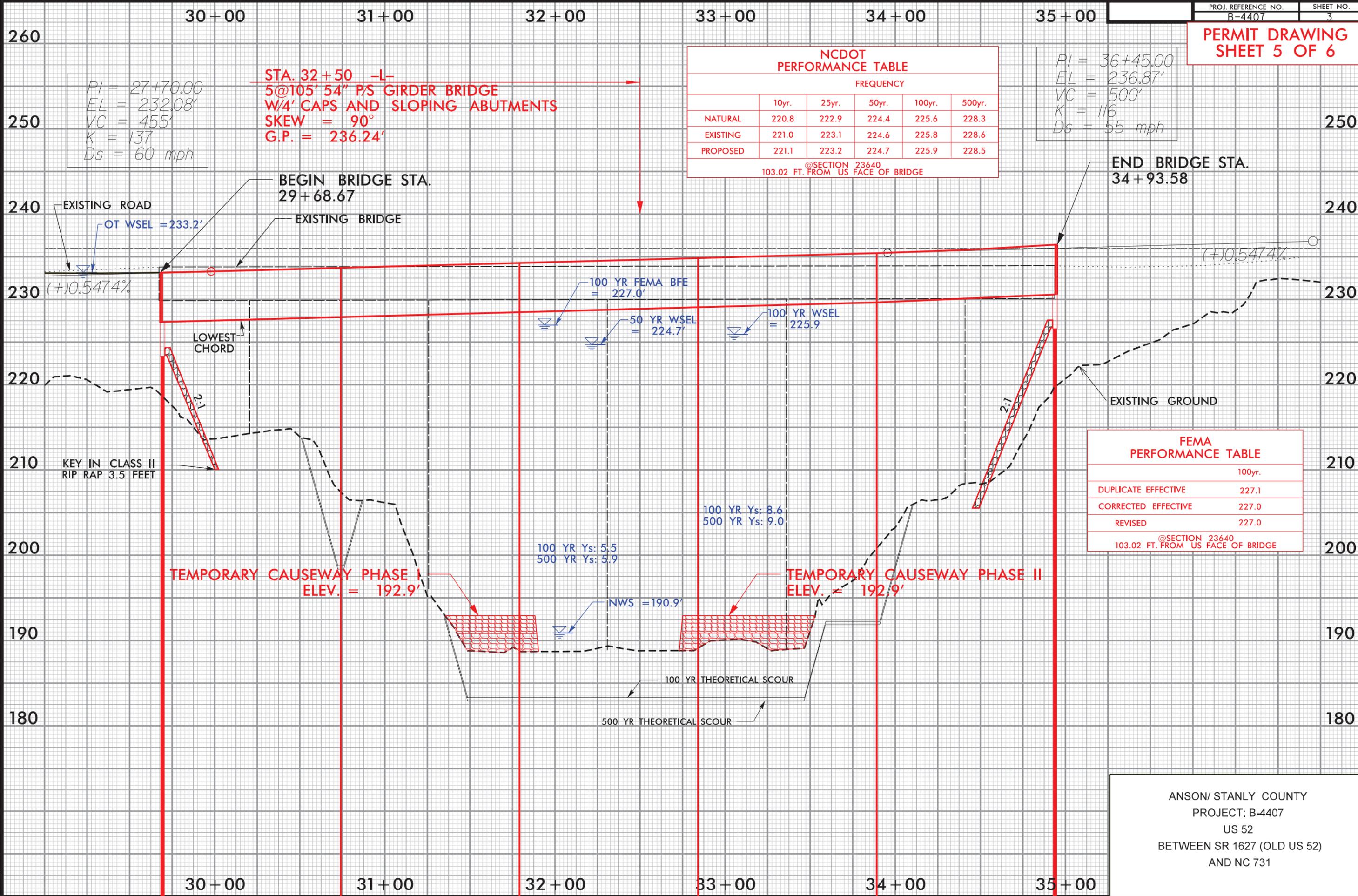
NOTE: NO MORE THAN ONE TEMPORARY CAUSEWAY WILL BE IN PLACE AT ANY GIVEN TIME OR NO MORE THAN 50% OF RIVER CHANNEL CAN BE IMPACTED AT ANY GIVEN TIME WITH A CAUSEWAY.

- DENOTES TEMPORARY IMPACTS IN SURFACE WATER
- DENOTES IMPACTS IN SURFACE WATER



CUSTOMER'S PROPERTY

6/23/16



$PI = 27+70.00$
 $EL = 232.08'$
 $VC = 455'$
 $K = 137$
 $Ds = 60 \text{ mph}$

STA. 32+50 -L-
5@105' 54" P/S GIRDER BRIDGE
W/4' CAPS AND SLOPING ABUTMENTS
SKEW = 90°
G.P. = 236.24'

NCDOT PERFORMANCE TABLE

| | FREQUENCY | | | | |
|----------|-----------|-------|-------|--------|--------|
| | 10yr. | 25yr. | 50yr. | 100yr. | 500yr. |
| NATURAL | 220.8 | 222.9 | 224.4 | 225.6 | 228.3 |
| EXISTING | 221.0 | 223.1 | 224.6 | 225.8 | 228.6 |
| PROPOSED | 221.1 | 223.2 | 224.7 | 225.9 | 228.5 |

@SECTION 23640
103.02 FT. FROM US FACE OF BRIDGE

$PI = 36+45.00$
 $EL = 236.87'$
 $VC = 500'$
 $K = 116$
 $Ds = 55 \text{ mph}$

END BRIDGE STA.
34+93.58

FEMA PERFORMANCE TABLE

| | 100yr. |
|---------------------|--------|
| DUPLICATE EFFECTIVE | 227.1 |
| CORRECTED EFFECTIVE | 227.0 |
| REVISED | 227.0 |

@SECTION 23640
103.02 FT. FROM US FACE OF BRIDGE

ANSON/STANLY COUNTY
 PROJECT: B-4407
 US 52
 BETWEEN SR 1627 (OLD US 52)
 AND NC 731

1/29/2016 4:43 AM Permt.03.dgn User: jlddvas

Freshwater Mussel Survey Report

**Bridge No. 70 over Rocky River
on US-52**

TIP # B-4407

WBS: 38356.1.2

Anson/Stanly County Line, North Carolina



**NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
Environmental Analysis Unit**

**NCDOT Contact: Matt Haney
919-707-6122; mmhaney@ncdot.gov**

October 2018

FRESHWATER MUSSEL SURVEY REPORT

PROJECT: Protected species survey report for the Carolina Heelsplitter (*Lasmigona decorata*), Atlantic Pigtoe (*Fusconaia masoni*), and Brook Floater (*Alasmidonta varicosa*) for the proposed US-52 bridge replacement over Rocky River within the Yadkin-Pee Dee River Basin on the Anson/Stanly county line. WBS: 38356.1.1, TIP No. B-4407.

REPORT BIOLOGISTS: Joseph D. Alderman and John M. Alderman

The North Carolina Department of Transportation proposes to replace Bridge No. 70 over Rocky River (Stream Index No. 13-17) on the Anson/Stanly county line (Figures 1 and 2).

The Carolina Heelsplitter is federally listed Endangered by the United States Fish & Wildlife Service (USFWS). The Carolina Heelsplitter exists from the Savannah River Basin in South Carolina to the Pee Dee River Basin in North Carolina. The USFWS documents Union County as part of the current Carolina Heelsplitter range.

The Carolina Heelsplitter's preferred habitats include low to higher gradient, stable banked streams with relatively silt free substrates. Coarser substrates, including cobble, boulder, and bedrock, are usually present within an occupied stream reach. The best populations have been found in higher water quality, well-oxygenated streams. In general, woodland dominates the landscape. Carolina Heelsplitter records exist in first order streams up to main channels of large rivers.

The Atlantic Pigtoe is a federal At-Risk Species (USFWS) and is a native Southeast Atlantic Slope freshwater mussel species. The USFWS may list this species as endangered or threatened during 2018. The Atlantic Pigtoe has records from the Altamaha River Basin in Georgia to the James River Basin in Virginia. The USFWS documents Union County as part of the current Atlantic Pigtoe range.

The Atlantic Pigtoe normally requires clean sand and pea gravel substrates and circumneutral pH water. The highest densities recorded for this species existed in silt free, unconsolidated coarse sand and pea gravel within "run" stream reaches. The best populations have been documented from North Carolina Division of Water Resources Outstanding Resource Waters (ORW) stream reaches or within streams potentially suitable for such designations.

The Brook Floater is a federal At-Risk Species (USFWS) and is a native Atlantic Slope freshwater mussel species. The USFWS may list this species as endangered or threatened during 2018. The Brook Floater has records from Canada to the Savannah River Basin in Georgia and South Carolina. The USFWS documents Anson County as part of the current Brook Floater range.

The Brook Floater normally requires clean sand and pea gravel substrates and circumneutral pH water. The highest densities recorded for this species existed in silt free, unconsolidated coarse sand and pea gravel within “run” stream reaches.

Prior to conducting in-stream surveys, reviews of the April 2018 North Carolina Natural Heritage Program (NCNHP), NC Museum of Natural Sciences, Alderman Environmental Services, Inc. (AES), Philadelphia Academy of Natural Sciences (ANSP), and Ohio State University Museum of Biodiversity databases were conducted to determine if there were any records of rare mussels within the proposed project study area or receiving waters. This review indicated that the closest occurrence of the Carolina Heelsplitter (documented in 2016) is within Goose Creek, a tributary of the Rocky River in Union County (NCNHP). This occurrence is >44 stream miles upstream from the project site. Records from 1998 for the Atlantic Pigtoe exist in Goose Creek in Union County, which is >44 stream miles upstream from the project area (NCNHP). Ohio State University records for the Brook Floater (listed as *A. robusta* within their database) from 1968 exist within the Rocky River >22 stream miles upstream from the project area. Since past field records for Brook Floater and Carolina Elktoe (*A. robusta*) have often been confused, we have lumped all records for these species under Brook Floater for this report.

The North Carolina Department of Environmental Quality (NCDEQ) records numerous NPDES permits within the Rocky River Subbasin. The closest discharge point is just downstream from the NC-52 bridge crossing. This discharge is a minor point source for the Town of Norwood. The lower Rocky River is a Class C stream, and is on the NCDEQ 303(d) list of impaired streams, due to excessive copper and turbidity. The Pee Dee River is the next major confluence with Rocky River, which is over four stream miles downstream from the project area. No dams exist within the Rocky River between the project site and Goose Creek, a known Carolina Heelsplitter and Atlantic Pigtoe stream.

Alderman Environmental Services, Inc. biologists Joseph D. Alderman (USFWS Permit No. TE28597A-1), John M. Alderman (North Carolina Wildlife Resources Commission Permit No. 18-ES00009 and USFWS Permit No. TE065756-3), Logan Williams, and John Fridell (both designated sub-permittees on John Alderman’s NCWRC permit) completed a mussel survey at the site on 19 June 2018 within 100+ meters upstream and 400+ meters downstream from the project stream crossing (Figures 1 and 2). Using visual and tactile searches, 5.5 person-hours were required to complete the survey within this relatively rural area of Anson and Stanly counties. Stream widths were up to 65 meters, and bank height was up to six meters. The river was low and slightly turbid. The surveyed reach canopy was mostly open, and wooded buffers were wide. Silt and sand were the dominant substrates with clay, gravel, pebble, boulder, organics, and mud present. Banks were undercut and eroded in places. There was no evidence of beavers in the surveyed reach.

Four species of freshwater mussels were documented: Eastern Elliptio (*Elliptio complanata*) – 6 live, Creeper (*Strophitus undulatus*) – 1 shell, Carolina Lance (*Elliptio angustata*) – 3 live, and Eastern Creekshell (*Villosa delumbis*) – 1 live, gravid female.

Elimia catenaria, a freshwater snail, was observed. The Asian Clam (*Corbicula fluminea*) was present.

Biological Conclusion

The Creeper and Eastern Creekshell are close species associates of the Carolina Heelsplitter. Since these species are present within the project area and since there are recent records for the Carolina Heelsplitter within the Rocky River Subbasin, the biological conclusion is “May Affect, Not Likely to Adversely Affect” the Carolina Heelsplitter if adequate erosion and sedimentation control methods are employed during project activities.

Since the most recent Atlantic Pigtoe and Brook Floater records from the Rocky River Subbasin are 24 years old and Atlantic Pigtoe and Brook Floater habitat in the project area is limited, the biological conclusion is “No Effect” for these two species.

References

North Carolina Museum of Natural Sciences. 2017. October 2017 online database search.

North Carolina Natural Heritage Program. 2018. April 2018 Database.

North Carolina Department of Environmental Quality. 2016. Final 2016 Category 5 Assessments – 303(d) List.

Ohio State University Museum of Biodiversity. 2018 online database search.

Philadelphia Academy of Natural Sciences. 2015 online database search.

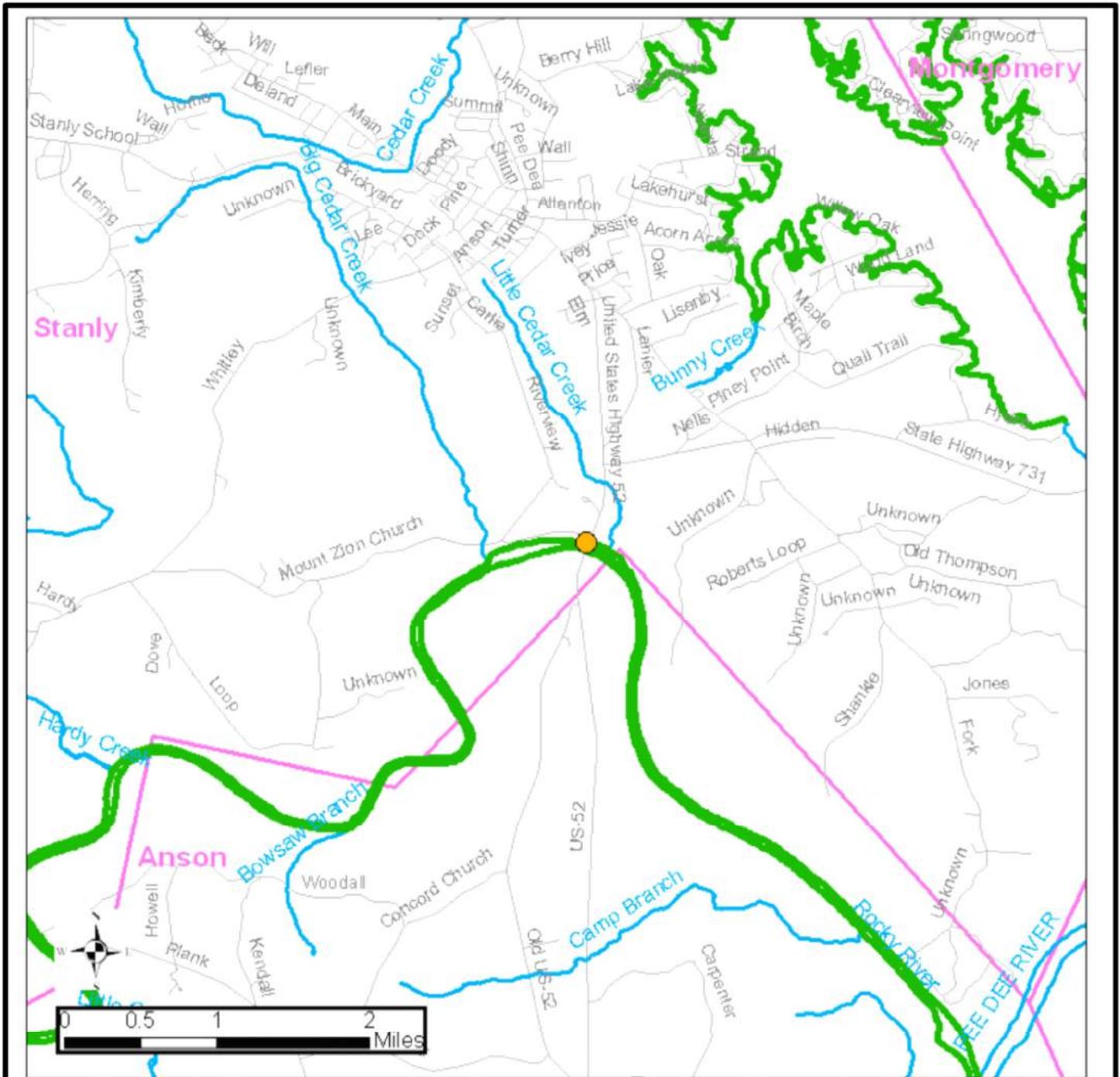
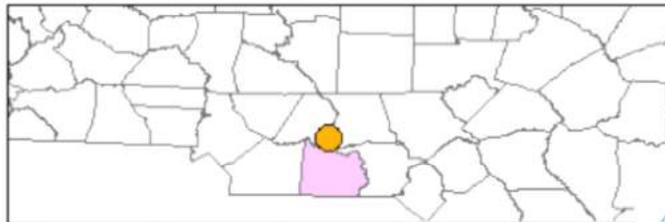


Figure 1
VICINITY MAP
 Anson/Stanly County Line, NC
 Replace Bridge No. 70
 on US-52 over Rocky River
 Project B-4407 (WBS 38356.1.1)

-  Bridge No. 70
-  303(d) Streams
-  Streams
-  Roads



Date: 6/20/2018
 By: JMA





Figure 2
SURVEY AREA MAP
 Anson/Stanly Co. Line, NC
 Replace Bridge No. 70
 on US-52
 over Rocky River
 Project B-4407 (WBS 38356.1.1)

- Roads
- Streams
- Survey Reach
- Bridge No. 70

Date: 6/20/2018 By: JMA





STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

J. ERIC BOYETTE
SECRETARY

DATE: January 26, 2021

TO: Erin Cheely, Environmental Program Consultant
Environmental Coordination & Permitting Group Western, EAU

FROM: Chris Manley, Environmental Program Consultant
Biological Surveys Group, EAU

SUBJECT: Section 7 survey results for the northern long-eared bat (*Myotis septentrionalis*) associated with the replacement of Bridge 70 over Rocky River on US 52 in Anson and Stanly Counties, **TIP No. B-4407**.

The North Carolina Department of Transportation (NCDOT, Division 10) proposes to replace Bridge No. 70 over Rocky River on US 52 in Anson and Stanly Counties, TIP No. B-4407. The replacement structure will be a five-span (5@105'63") bridge approximately 525 feet long providing a minimum 32' clear deck width. The existing structure contains reinforced concrete deck girders, abutments, and bents. The guardrail is also constructed of concrete.

The project to replace Bridge No. 70 has been reviewed for effects on the northern long-eared bat (NLEB). As of May 4, 2015, NLEB is listed by the U.S. Fish and Wildlife Service (USFWS) as "Threatened" under the Endangered Species Act of 1973. As of July 17, 2020, NLEB is listed by USFWS (http://www.fws.gov/raleigh/species/cntylist/nc_counties.html) as "probable/potential" in Stanly County. The NLEB is not listed for Anson County.

According to the North Carolina Natural Heritage Program (NHP) Biotics Database, most recently updated October 2020, **there are no known hibernacula within 25 miles of the project and no known NLEB roost trees occur within 150 feet of the project area.**

NCDOT has also reviewed the USFWS Asheville Field office website (http://www.fws.gov/asheville/htmls/project_review/NLEB_in_WNC.html) for consistency with NHP records. This project is located entirely outside of the red highlighted areas (12-digit HUC) that the USFWS Asheville Field Office has determined to be representative of an area that may require consultation. The closest 12 digit (030501010502) red HUC is approximately 109 miles to the northwest (Johns River) in Avery County.

On July 24, 2019, NCDOT biologist assessed Bridge No. 70 for potential NLEB habitat. Suitable roosting crevices were present on the structure, but no evidence (bats, guano, or staining) of bats was observed.

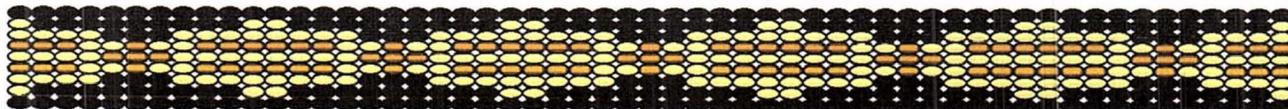
Based on the lack of evidence of bats on the bridge, no known roost trees within 150 feet of the project area, and being 109 miles to the closest 12 digit red HUC, NCDOT recommends a Biological Conclusion of **NO EFFECT** for the NLEB.

Final design and environmental impacts information will be provided in the permit application.

If you need any additional information, please contact Chris Manley at 919-707-6135.

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

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



January 15, 2020

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

| Re. THPO # | Project # | Project Description |
|-------------|-----------|--|
| 2020-193-64 | B-4407 | Replacement of Bridge No. 70 on US 52 over Rocky River in Stanly, Anson County |

Dear Mr. Stutts,

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

If you have questions please contact Caitlin Rogers at 803-328-2427 ext. 226, or e-mail caitlinh@ccppcrafts.com.

Sincerely,

Wenonah G. Haire
Tribal Historic Preservation Officer