

# STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

JAMES H. TROGDON, III
SECRETARY

June 14, 2017

N.C. Division of Water Resources Wilmington Regional Office 127 Cardinal Drive Ext. Wilmington, NC 28405

Attention: Joanne Steenhuis

NCDOT Coordinator

Subject: Application for 401 Water Quality Certification and Notice of Use of Section 404

Nationwide Permit 3 for the replacement of Bridge No. 78 on SR 2200 over Tenmile Branch

in Robeson County. TIP No. B-5334. Debit \$240 from WBS 46048.1.1.

#### Dear Madam:

The North Carolina Department of Transportation (NCDOT) proposes to replace Robeson County Bridge No. 78 on SR 2220 (N. Broadridge Road) over Tenmile Branch. The purpose of this letter is to request approval for a Section 401 Water Quality Certification. In addition to this cover letter, this application package includes: approved preliminary Jurisdictional Determination, stormwater management plan, permit drawings, and roadway plans.

This project calls for a let date of December 19, 2017 and a review date of October 31, 2017.

### **Impacts to Jurisdictional Resources**

The project will have no permanent surface water impacts and 0.02 acre of temporary surface water impacts. Proposed permanent wetland impacts are 0.05 acre.

<u>Section 401</u>: We are requesting a Section 401 Water Quality Certification from NCDWR and are providing this application for their approval. Authorization to debit the \$240 Permit Application Fee from WBS Element 46048.1.1 is hereby given.

<u>Section 404</u>: As currently designed, this activity does not require written approval under USACE Nationwide 3 Permit.

Α copy of this permit application will be posted on the **NCDOT** Website https://connect.ncdot.gov/resources/Environmental/Pages/default.aspx under Quick Links > Permit Applications. A Programmatic Categorical Exclusion (PCE) was completed for this project in August 2016. A copy of the PCE is also available at the above website address under Ouick Links > Environmental Documents.

Thank you for your assistance with this project. If you have any questions or need additional information, please contact Gordon Cashin at or (919) 707-6107.

Sincerely,

9<sup>t</sup> Philip S. Harris III, P.E., CPM Environmental Analysis Unit Head

cc: NCDOT Permit Application Standard Distribution List



| Office Use Only:              |
|-------------------------------|
| Corps action ID no.           |
| DWQ project no                |
| Form Version 1.4 January 2009 |

|     | Pre-Construction Notification (PCN) Form  |                                     |  |                  |                        |  |  |  |
|-----|---|-------------------------------------|--|------------------|------------------------|--|--|--|
| A.  | A. Applicant Information  |                                     |  |                  |                        |  |  |  |
| 1.  | Processing  |                                     |  |                  |                        |  |  |  |
| 1a. | Type(s) of approval sought from Corps:  | the                                 | ⊠ Section 404 Permit ☐ Secti                           | on 10 Permit     |                        |  |  |  |
| 1b. | Specify Nationwide Permit (NWP  | ) number: 3                         | or General Permit (GP                                  | ) number:        |                        |  |  |  |
| 1c. | Has the NWP or GP number bee  | en verified b                       | by the Corps?  | Yes              | ⊠ No                   |  |  |  |
| 1d. | Type(s) of approval sought from   | the DWQ (                           | check all that apply):                                 |                  |                        |  |  |  |
|     |   | n – Regula                          | r Non-404 Jurisdiction                                 | al General Permi | t                      |  |  |  |
|     | ☐ 401 Water Quality Certification   | n – Expres                          | s Riparian Buffer Autho                                | orization        |                        |  |  |  |
| 1e. | Is this notification solely for the rebecause written approval is not r   |                                     | For the record only for DWQ 401 Certification:  Yes No | For the record o | only for Corps Permit: |  |  |  |
| 1f. | 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                   |  |  |  |
| 1g. | Is the project located in any of N below.   | C's twenty                          | coastal counties. If yes, answer 1h                    | Yes              | ⊠ No                   |  |  |  |
| 1h. | Is the project located within a NC  | DCM Area                            | of Environmental Concern (AEC)?                        | Yes              | ⊠ No                   |  |  |  |
| 2.  | Project Information   |                                     |  |                  |                        |  |  |  |
| 2a. | Name of project:  | Replacen                            | nent of Bridge No. 78 on SR 2200 ov                    | er Tenmile Brand | ch                     |  |  |  |
| 2b. | County:   | Robeson                             |  |                  |                        |  |  |  |
| 2c. | Nearest municipality / town:  | Lumberto                            | n  |                  |                        |  |  |  |
| 2d. | Subdivision name:   | not applic                          | eable  |                  |                        |  |  |  |
| 2e. | NCDOT only, T.I.P. or state project no:   | B-5334                              |  |                  |                        |  |  |  |
| 3.  | Owner Information   |                                     |  |                  |                        |  |  |  |
| За. | Name(s) on Recorded Deed:   | North Car                           | rolina Department of Transportation                    |                  |                        |  |  |  |
|     | Deed Book and Page No.  | not applic                          | able   |                  |                        |  |  |  |
| 3c. | Responsible Party (for LLC if applicable):  |                                     |  |                  |                        |  |  |  |
| 3d. | Street address:   | t address: 1598 Mail Service Center |  |                  |                        |  |  |  |
| 3e. | City, state, zip:   | Raleigh, NC 27699-1598              |  |                  |                        |  |  |  |
| 3f. | Telephone no.:  | (919) 707                           | 7-6107   |                  |                        |  |  |  |
|     | Fax no.:  | (919) 212                           | -5785  |                  |                        |  |  |  |
| 3h. | h. Email address: gcashin@ncdot.gov   |                                     |  |                  |                        |  |  |  |

| 4.  | Applicant Information (if different from owner) |                       |  |  |
|-----|---|-----------------------|--|--|
| 4a. | Applicant is:                                   | Agent Other, specify: |  |  |
| 4b. | Name:   | not applicable        |  |  |
| 4c. | Business name (if applicable):                  |                       |  |  |
| 4d. | Street address:                                 |                       |  |  |
| 4e. | City, state, zip:                               |                       |  |  |
| 4f. | Telephone no.:                                  |                       |  |  |
| 4g. | Fax no.:  |                       |  |  |
| 4h. | Email address:                                  |                       |  |  |
| 5.  | . Agent/Consultant Information (if applicable)  |                       |  |  |
| 5a. | Name:   | not applicable        |  |  |
| 5b. | Business name (if applicable):                  |                       |  |  |
| 5c. | Street address:                                 |                       |  |  |
| 5d. | City, state, zip:                               |                       |  |  |
| 5e. | Telephone no.:                                  |                       |  |  |
| 5f. | Fax no.:  |                       |  |  |
| 5g. | Email address:                                  |                       |  |  |

| В.  | Project Information and Prior Project History  |                             |                  |  |  |  |
|-----|--|-----------------------------|------------------|--|--|--|
| 1.  | Property Identification  |                             |                  |  |  |  |
| 1a. | Property identification no. (tax PIN or parcel ID):  | not applicable              |                  |  |  |  |
| 1b. | Site coordinates (in decimal degrees):   | Latitude: 34.52<br>(DD.DDDD |                  | Longitude: - 78.962948<br>(-DD.DDDDDD) |  |  |
| 1c. | Property size:   | 11.47 acres                 |                  |  |  |  |
| 2.  | Surface Waters   |                             |                  |  |  |  |
| 2a. | Name of nearest body of water (stream, river, etc.) to proposed project:   | Tenmile Brancl              | h                |  |  |  |
| 2b. | Water Quality Classification of nearest receiving water:   | C, Sw                       |                  |  |  |  |
| 2c. | River basin:   | Lumber                      |                  |  |  |  |
| 3.  | Project Description  |                             |                  |  |  |  |
| За. | Describe the existing conditions on the site and the general lar application:  |                             |                  |  |  |  |
|     | The study area includes residential and agricultural use, with s   | ome forest land             | along streams    | and floodplains.                       |  |  |
| 3b. | List the total estimated acreage of all existing wetlands on the   | property:                   |                  |  |  |  |
|     | 2.19 acres (from Table 6 of the 2013 NRTR)   |                             |                  |  |  |  |
| 3c. | c. List the total estimated linear feet of all existing streams (intermittent and perennial) on the property:  360 feet (from Table 5 of the 2013 NRTR)                                |                             |                  |  |  |  |
| 3d. | Explain the purpose of the proposed project:  To replace a structurally deficient bridge.  |                             |                  |  |  |  |
| 3e. | Describe the overall project in detail, including the type of equi   | •'                          |                  |  |  |  |
|     | The project involves replacing an existing bridge. Standard roa  | dbuilding equipn            | nent will be use | ed.                                    |  |  |
| 4.  | Jurisdictional Determinations  | Τ                           |                  |  |  |  |
| 4a. | Have jurisdictional wetland or stream determinations by the Corps or State been requested or obtained for this property / project (including all prior phases) in the past?  Comments: | ⊠ Yes                       | □ No             | Unknown                                |  |  |
| 4b. | If the Corps made the jurisdictional determination, what type of determination was made?   | □ Preliminary               | Final            |  |  |  |
| 4c. | If yes, who delineated the jurisdictional areas?  Name (if known):   | Agency/Consul Other:        | Itant Company    | : ESI                                  |  |  |
| 4d. | If yes, list the dates of the Corps jurisdictional determinations of   | or State determin           | ations and atta  | ach documentation.                     |  |  |
|     | August 6, 2013, by Ronnie Smith  |                             |                  |  |  |  |
| 5.  | Project History  | T                           |                  |  |  |  |
|     | Have permits or certifications been requested or obtained for this project (including all prior phases) in the past?   | Yes                         | ⊠ No             | Unknown                                |  |  |
| 5b. | If yes, explain in detail according to "help file" instructions.   |                             |                  |  |  |  |
| 6.  | Future Project Plans   |                             |                  |  |  |  |
| 6a. | Is this a phased project?  | Yes                         | ⊠ No             |  |  |  |
| 6b. | If yes, explain.   |                             |                  |  |  |  |

| C. Proposed Impa  | C. Proposed Impacts Inventory |                                |   |   |                                 |                                       |  |
|---|-------------------------------|--------------------------------|---|---|---------------------------------|---------------------------------------|--|
| 1. Impacts Summa  | ary                           |                                |   |   |                                 |                                       |  |
| 1a. Which sections v  | vere completed b              | elow for your project (check a | all that apply):                            |   |                                 |                                       |  |
| ⊠ Wetlands  | $\boxtimes$ :                 | Streams - tributaries          | Buffers                                     |   |                                 |                                       |  |
|   |                               | Pond Construction              |   |   |                                 |                                       |  |
| 2. Wetland Impact   |                               |                                |   |   |                                 |                                       |  |
| 2a.   | npacts proposed 2b.           | on the site, then complete th  | 2d.   | 2e.   | area impacte                    | d.<br>2f.                             |  |
| Wetland impact<br>number –<br>Permanent (P) or<br>Temporary (T) | Type of impact                | Type of wetland (if known)     | Forested                                    | Type of jur   | risdiction                      | Area of impact (acres)                |  |
| Site 1 ⊠ P □ T  | Fill                          | Bottomland Hardwood            | ⊠ Yes<br>□ No                               |   | orps<br>WQ                      | Perm. <0.01                           |  |
| Site 1 🛛 P 🗌 T  | Mechanized<br>Clearing        | Bottomland Hardwood            | ⊠ Yes<br>□ No                               |   | WQ                              | Perm. 0.02                            |  |
| Site 1&2 ⊠ P □ T  | Excavation                    | Bottomland Hardwood            | ⊠ Yes<br>□ No                               | ⊠ Co  | orps<br>WQ                      | Perm. 0.02                            |  |
| Site 1&2 ⊠ P □ T  | Mechanized<br>Clearing        | Bottomland Hardwood            | ⊠ Yes<br>□ No                               | ⊠ Co  | orps<br>WQ                      | Perm. <0.01                           |  |
| Site 1&2 ☐ P ⊠ T  | Temp. Fill                    | Bottomland Hardwood            | ⊠ Yes<br>□ No                               | ⊠ Co  | orps<br>WQ                      | Temp. <0.01                           |  |
| Site 2 🛛 P 🗌 T  | Fill                          | Bottomland Hardwood            | ⊠ Yes<br>□ No                               | ⊠ Co  | orps<br>WQ                      | Perm. <0.01                           |  |
| Site 2 🛛 P 🗌 T  | Mechanized<br>Clearing        | Bottomland Hardwood            | ⊠ Yes<br>□ No                               | ⊠ Co  | orps<br>WQ                      | Perm. <0.01                           |  |
|   |                               |                                | 2   | 2g. <b>Total wetla</b> ı  | nd impacts                      | Perm 0.05<br>Temp<0.01                |  |
|   |                               | of hand clearing in wetlands.  | Additionally, t                             | here will be <0.  | .01 acre of te                  | •                                     |  |
| 3. Stream Impacts   |                               | r crosion control measures.    |   |   |                                 |                                       |  |
| •   | or intermittent st            | ream impacts (including temp   | orary impacts                               | ) proposed on t   | the site, then                  | complete this                         |  |
| 3a. Stream impact number - Permanent (P) or Temporary (T)       | 3b.<br>Type of<br>impact      | 3c.<br>Stream name             | 3d. Perennial (PER) or intermitte nt (INT)? | 3e. Type of jurisdiction (Corps - 404, 10 DWQ - non-404, other) | 3f. Average stream width (feet) | 3g.<br>Impact length<br>(linear feet) |  |
| Site 1&2 ☐ P ⊠ T  | Fill                          | Tenmile Branch                 |   | ⊠ Corps<br>⊠ DWQ  | 30                              | 84 temp.                              |  |
|   |                               |                                | 3h. Total st                                | ream and tribu  | utary impact                    | <b>s</b> 84 Temp.                     |  |
| 3i. Comments:   | Bi. Comments:                 |                                |   |   |                                 |                                       |  |

| 4. Open                                   | 4. Open Water Impacts   |                              |                         |        |             |                |                 |                             |              |              |
|---|---|------------------------------|-------------------------|--------|-------------|----------------|-----------------|-----------------------------|--------------|--------------|
|   | If there are proposed impacts to lakes, ponds, estuaries, tributaries, sounds, the Atlantic Ocean, or any other open water of the U.S. then individually list all open water impacts below. |                              |                         |        |             |                |                 |                             |              |              |
| 4a.                                       |   | 4b.                          | 4c.                     |        |             |                | 4d.             | 40                          | e.           |              |
| Open v                                    |   | Name of                      |                         | т      | una of imr  | a a a t        | Matarba         | dv                          | Aron of im   | nact (acros) |
| impact nu<br>Permaner                     |   | waterbody<br>(if applicable) |                         | ı      | ype of imp  | Jaci           | Waterbo<br>type | luy                         | Alea Ol IIII | pact (acres) |
| Tempora                                   |   | ( -  -                       |                         |        |             |                | 371-            |                             |              |              |
| 01 ⊠ F                                    | P⊠Τ   | Tenmile Branch               | Fill                    |        |             |                | stream          | า                           | 0.02         | temp.        |
| O1 □ F                                    | Р□Т   |                              |                         |        |             |                |                 |                             |              |              |
|   |   |                              |                         |        |             | 4f. Total oper | n water impa    | cts                         | 0.02         | Temp.        |
| 4g. Comm                                  | 4g. Comments:   |                              |                         |        |             |                |                 |                             |              |              |
| 5. Pond                                   | or Lake   | Construction                 |                         |        |             |                |                 |                             |              |              |
| If pond or                                | lake cons   | struction proposed,          | then con                | nplete | the chart b | elow.          |                 |                             |              |              |
| 5a.                                       | 5b.   |                              | 5c.                     |        |             |                | 5d.             |                             |              | 5e.          |
| Pond ID                                   |   | Proposed use or              | Wetland Impacts (acres) |        |             | Strear         | n Impac         | pacts (feet) Upland (acres) |              |              |
| number                                    | pur   | pose of pond                 | Flood                   | ded    | Filled      | Excavated      | Flooded         | Filled                      | Excavat ed   | Flooded      |
| P1  |   |                              |                         |        |             |                |                 |                             |              |              |
| P2  |   |                              |                         |        |             |                |                 |                             |              |              |
|   |   | 5f. Total                    |                         |        |             |                |                 |                             |              |              |
| 5g. Comm                                  | ents:   |                              |                         |        |             |                |                 |                             | •            |              |
| 5h. Is a dam high hazard permit required? |   |                              |                         | П      | es          | □ No If        | yes, permit II  | O no:                       |              |              |
| 5i. Exped                                 | cted pond   | surface area (acre           | s):                     |        |             |                |                 |                             |              |              |
| 5j. Size o                                | of pond w   | atershed (acres):            |                         |        |             |                |                 |                             |              |              |
| 5k. Method of construction:               |   |                              |                         |        |             |                |                 |                             |              |              |

| 6. Buffer Impacts (for DWQ)  |                          |                      |                                   |                             |                                |  |  |  |
|--|--------------------------|----------------------|-----------------------------------|-----------------------------|--------------------------------|--|--|--|
| If project will impact a protected riparian buffer, then complete the chart below. If yes, then individually list all buffer impacts below. If any impacts require mitigation, then you <b>MUST</b> fill out Section D of this form. |                          |                      |                                   |                             |                                |  |  |  |
| 6a.<br>Project is in which   | protected basin?         | ☐ Neuse<br>☐ Catawba | ☐ Tar-Pamlico<br>☐ Randleman      | Other:                      |                                |  |  |  |
| 6b.<br>Buffer impact   | 6c.                      | 6d.                  | 6e.                               | 6f.                         | 6g.                            |  |  |  |
| number –<br>Permanent (P) or<br>Temporary (T)  | Reason for impact        | Stream name          | Buffer<br>mitigation<br>required? | Zone 1 impact (square feet) | Zone 2 impact<br>(square feet) |  |  |  |
| B1 □ P □ T   |                          |                      | ☐ Yes<br>☐ No                     |                             |                                |  |  |  |
| B7 □ P □ T   |                          |                      | ☐ Yes<br>☐ No                     |                             |                                |  |  |  |
| U1* 🗌 P 🗌 T  |                          |                      | ☐ Yes<br>☐ No                     |                             |                                |  |  |  |
| U2* 🗌 P 🗌 T  |                          |                      | ☐ Yes<br>☐ No                     |                             |                                |  |  |  |
|  | 6h. Total buffer impacts |                      |                                   |                             |                                |  |  |  |
| 6i. Comments: .  | 6i. Comments: .          |                      |                                   |                             |                                |  |  |  |

| D.  | D. Impact Justification and Mitigation  |   |        |   |  |  |
|-----|---|---|--------|---|--|--|
| 1.  | Avoidance and Minimization  |   |        |   |  |  |
| 1a. | Specifically describe measures taken to avoid or minimize t   | the proposed impac  | cts in | designing project.                                |  |  |
|     | The existing bridge 78 has a span arrangement of 1 span @ 16'-2" and 1 span @ 15'-6". The proposed bridge 78 has 1 span @ 55'. No deck drains were used and ditch grades have been minimized to have non erosive velocities entering the wetlands. 3:1 slopes are used in wetlands. |   |        |   |  |  |
| 1b. | Specifically describe measures taken to avoid or minimize t   | the proposed impac  | cts th | nrough construction techniques.                   |  |  |
|     | Best Management Practices for Construction and Maintena   | nce Activities will b   | be ac  | lhered to during construction.                    |  |  |
| 2.  | Compensatory Mitigation for Impacts to Waters of the U  | J.S. or Waters of t   | the S  | State   |  |  |
| 2a. | Does the project require Compensatory Mitigation for impacts to Waters of the U.S. or Waters of the State?  | If no, explain: Du  |        | minimal permanent impacts,<br>ion is not proposed |  |  |
| 2b. | If yes, mitigation is required by (check all that apply):   | ☐ DWQ 🖂   | Cor    | ps  |  |  |
| 2c. | If yes, which mitigation option will be used for this project?  | ☐ Mitigation bank ☐ Payment to in-lieu fee program ☐ Permittee Responsible Mitigation |        |   |  |  |
| 3.  | Complete if Using a Mitigation Bank   |   |        |   |  |  |
| 3a. | Name of Mitigation Bank: not applicable   |   |        |   |  |  |
| 3b. | Credits Purchased (attach receipt and letter)   | Туре  |        | Quantity  |  |  |
| 3c. | Comments:   |   | •      |   |  |  |
| 4.  | Complete if Making a Payment to In-lieu Fee Program   |   |        |   |  |  |
| 4a. | Approval letter from in-lieu fee program is attached.   | Yes   |        |   |  |  |
| 4b. | Stream mitigation requested:  | linear feet   |        |   |  |  |
| 4c. | If using stream mitigation, stream temperature:   | ☐ warm ☐  | coc    | ol  |  |  |
| 4d. | Buffer mitigation requested (DWQ only):   | square fee  | et     |   |  |  |
| 4e. | Riparian wetland mitigation requested:  |   |        |   |  |  |
| 4f. | Non-riparian wetland mitigation requested:  | acres   |        |   |  |  |
| 4g. | Coastal (tidal) wetland mitigation requested:   | acres   |        |   |  |  |
| 4h. | Comments:   |   |        |   |  |  |
| 5.  | Complete if Using a Permittee Responsible Mitigation F  | Plan  |        |   |  |  |
| 5a. | If using a permittee responsible mitigation plan, provide a d   | escription of the pr  | ropos  | sed mitigation plan.                              |  |  |

| 6. Buffer N   | 5. Buffer Mitigation (State Regulated Riparian Buffer Rules) – required by DWQ |                                      |                      |   |  |  |  |
|---|--|--------------------------------------|----------------------|---|--|--|--|
|   | oroject result in an impact with itigation?                                    | n buffer that requires               | ☐ Yes ☐ No           |   |  |  |  |
| 6b. If yes, then identify the square feet of impact to each zone of the riparian buffer that requires mitigation. Calculate the amount of mitigation required.  |  |                                      |                      |   |  |  |  |
| Zone  | 6c.<br>Reason for impact   | 6d.<br>Total impact<br>(square feet) | Multiplier           | 6e.<br>Required mitigation<br>(square feet) |  |  |  |
| Zone 1  |  |                                      | 3 (2 for Catawba)    |   |  |  |  |
| Zone 2  |  |                                      | 1.5                  |   |  |  |  |
|   |  | 6f. Total buffer i                   | mitigation required: |   |  |  |  |
| 6g. If buffer mitigation is required, discuss what type of mitigation is proposed (e.g., payment to private mitigation bank, permittee responsible riparian buffer restoration, payment into an approved in-lieu fee fund). |  |                                      |                      |   |  |  |  |
| 6h. Commer  | nts:   |                                      |                      |   |  |  |  |

| E.  | Stormwater Management and Diffuse Flow Plan (required by DWQ)  |  |                                       |  |  |  |
|-----|--|--|---------------------------------------|--|--|--|
| 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                                  |  |  |  |
| 1b. | If yes, then is a diffuse flow plan included? If not, explain why.  Comments:  | ☐ Yes  | ⊠ No                                  |  |  |  |
| 2.  | Stormwater Management Plan   |  |                                       |  |  |  |
| 2a. | What is the overall percent imperviousness of this project?  | N/A  |                                       |  |  |  |
| 2b. | Does this project require a Stormwater Management Plan?  | ⊠ Yes  | □ No                                  |  |  |  |
| 2c. | If this project DOES NOT require a Stormwater Management Plan, explain why:  |  |                                       |  |  |  |
| 2d. | 2d. If this project DOES require a Stormwater Management Plan, then provide a brief, narrative description of the plan:  See attached permit drawings. |  |                                       |  |  |  |
| 2e. | Who will be responsible for the review of the Stormwater Management Plan?  |  | al Government<br>water Program<br>nit |  |  |  |
| 3.  | Certified Local Government Stormwater Review   |  |                                       |  |  |  |
| 3a. | In which local government's jurisdiction is this project?  | not applicable                                 |                                       |  |  |  |
| 3b. | Which of the following locally-implemented stormwater management programs apply (check all that apply):  | ☐ Phase II ☐ NSW ☐ USMP ☐ Water Suppl ☐ Other: | y Watershed                           |  |  |  |
| 3c. | Has the approved Stormwater Management Plan with proof of approval been attached?  | Yes  | □ No                                  |  |  |  |
| 4.  | DWQ Stormwater Program Review  |  |                                       |  |  |  |
| 4a. | Which of the following state-implemented stormwater management programs apply (check all that apply):  | Coastal could HQW ORW Session La               | nties<br>w 2006-246                   |  |  |  |
| 4b. | Has the approved Stormwater Management Plan with proof of approval been attached?  | Yes  | □ No N/A                              |  |  |  |
| 5.  | DWQ 401 Unit Stormwater Review   |  |                                       |  |  |  |
| 5a. | Does the Stormwater Management Plan meet the appropriate requirements?   | Yes  | □ No N/A                              |  |  |  |
| 5b. | Have all of the 401 Unit submittal requirements been met?  | Yes  | □ No N/A                              |  |  |  |

| F.  | Supplementary Information  |  |                           |
|-----|--|--|---------------------------|
| 1.  | Environmental Documentation (DWQ Requirement)  |  |                           |
| 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                       |
|     | Comments:  |  |                           |
| 2.  | Violations (DWQ Requirement)   |  |                           |
| 2a. | Is the site in violation of DWQ Wetland Rules (15A NCAC 2H .0500), Isolated Wetland Rules (15A NCAC 2H .1300), DWQ Surface Water or Wetland Standards, or Riparian Buffer Rules (15A NCAC 2B .0200)?               | ☐ Yes                                      | ⊠ No                      |
| 2b. | Is this an after-the-fact permit application?  | ☐ Yes                                      | ⊠No                       |
| 2c. | If you answered "yes" to one or both of the above questions, provide an explanation of   | f the violation(s):                        |                           |
| 3.  | Cumulative Impacts (DWQ Requirement)   |  |                           |
| За. | Will this project (based on past and reasonably anticipated future impacts) result in additional development, which could impact nearby downstream water quality?  | ☐ Yes<br>⊠ No                              |                           |
| 3b. | If you answered "yes" to the above, submit a qualitative or quantitative cumulative improst recent DWQ policy. If you answered "no," provide a short narrative description.  | pact analysis in ac                        | ccordance with the        |
|     | Due to the minimal transportation impact resulting from this bridge replacement, this pland uses nor stimulate growth. Therefore, a detailed indirect or cumulative effects st                                     | project will neither<br>udy will not be ne | influence nearby cessary. |
| 4.  | Sewage Disposal (DWQ Requirement)  |  |                           |
| 4a. | Clearly detail the ultimate treatment methods and disposition (non-discharge or discharge the proposed project, or available capacity of the subject facility.   | orge) of wastewate                         | er generated from         |
|     | not applicable   |  |                           |

| 5.  | Endangered Species and Designated Critical Habitat (Corps Requirement)   |   |                            |                             |  |  |
|---|--|---|----------------------------|-----------------------------|--|--|
| 5a.   | Will this project occur in or near an are habitat?   | ea with federally protected species or    | ☐ Yes                      | ⊠ No                        |  |  |
| 5b.   | Have you checked with the USFWS compacts?  | oncerning Endangered Species Act          | ☐ Yes                      | ⊠ No                        |  |  |
| 5c.   | If yes, indicate the USFWS Field Office  | ☐ Raleigh ☐ Asheville                     |                            |                             |  |  |
| 5d.   | What data sources did you use to dete<br>Habitat?  | ermine whether your site would impact Er  | ndangered Species or De    | esignated Critical          |  |  |
|   | USFWS website, NHP GIS data, and to  | field surveys.                            |                            |                             |  |  |
| 6.  | Essential Fish Habitat (Corps Requi  | irement)                                  |                            |                             |  |  |
| 6a.   | Will this project occur in or near an are  | a designated as essential fish habitat?   | ☐ Yes                      | ⊠ No                        |  |  |
| 6b.   | 6b. What data sources did you use to determine whether your site would impact Essential Fish Habitat?  NMFS County Index   |   |                            |                             |  |  |
| 7.  | Historic or Prehistoric Cultural Rese  | ources (Corps Requirement)                |                            |                             |  |  |
| 7a.   | <ul> <li>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)?</li> </ul> |   |                            |                             |  |  |
| 7b.   | What data sources did you use to dete  | ermine whether your site would impact his | storic or archeological re | sources?                    |  |  |
| 8. F  | Flood Zone Designation (Corps Requ   | irement)                                  |                            |                             |  |  |
| 8a.   | Will this project occur in a FEMA-desig  | nated 100-year floodplain?                | ⊠ Yes □                    | ] No                        |  |  |
| 8b.   | If yes, explain how project meets FEMA   | A requirements: NCDOT Hydraulics Unit     | coordination with FEMA     |                             |  |  |
| 8c.   | 8c. What source(s) did you use to make the floodplain determination? FEMA Maps   |   |                            |                             |  |  |
| Applicant/Agent's Printed Name Date: 2017.06.14.07:31:59-04'00' |  |   |                            | 06- <u>14-20</u> 17<br>Date |  |  |

# U.S. ARMY CORPS OF ENGINEERS

### WILMINGTON DISTRICT

Action Id. SAW-2013-00014

County: Robeson

U.S.G.S. Quad: Southeast Lumberton

### NOTIFICATION OF JURISDICTIONAL DETERMINATION

Property Owner/Agent: Mr. Tyler Stanton

Mr. Robert Turnbull

Address:

**NCDOT** 1598 Mail Service Center Environmental Services, Inc.

Raleigh, North Carolina 27699

524 South New Hope Road Raleigh, North Carolina 27610

Telephone No.:

Property description:

Size (acres) 14 Nearest Town Lumberton

**Tenmile Branch** 

River Basin Lumber

**USGS HUC** 

Nearest Waterway

03040203

N 34.522657 W -79.962810 Coordinates

Location description: B-5334. The project area is located at Bridge Number 78 over Tenmile Branch along SR 2220,

south of Lumberton, Robeson County. North Carolina.

## **Indicate Which of the Following Apply:**

### A. Preliminary Determination

X Based on preliminary information, there may be waters of the U.S. including wetlands on the above described project area. This preliminary determination is not an appealable action under the Regulatory Program Administrative Appeal Process (Reference 33 CFR Part 331).

# **B.** Approved Determination

There are Navigable Waters of the United States within the above described project area subject to the permit requirements of Section 10 of the Rivers and Harbors Act and Section 404 of the Clean Water Act. Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.

There are waters of the U.S. including wetlands on the above described project area subject to the permit requirements of Section 404 of the Clean Water Act (CWA)(33 USC § 1344). Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.

We strongly suggest you have the wetlands on your property delineated. Due to the size of your property and/or our present workload, the Corps may not be able to accomplish this wetland delineation in a timely manner. For a more timely delineation, you may wish to obtain a consultant. To be considered final, any delineation must be verified by the Corps.

The waters of the U.S. including wetland on your project area have been delineated and the delineation has been verified by the Corps.

The waters of the U.S. including wetlands have been delineated and surveyed and are accurately depicted on the plat signed by the Corps Regulatory Official identified below on September 29, 2010. Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.

- There are no waters of the U.S., to include wetlands, present on the above described project area which are subject to the permit requirements of Section 404 of the Clean Water Act (33 USC 1344). Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.
- The property is located in one of the 20 Coastal Counties subject to regulation under the Coastal Area Management Act (CAMA). You should contact the Division of Coastal Management in Wilmington, NC at (910) 796-7215 to determine their requirements.

Placement of dredged or fill material within waters of the US and/or wetlands without a Department of the Army permit may constitute a violation of Section 301 of the Clean Water Act (33 USC § 1311). If you have any questions regarding this determination and/or the Corps regulatory program, please contact **Ronnie Smith** at **910-251-4829**.

#### C. Basis For Determination

The site exhibits wetland criteria as described in the 1987 Corps Wetland Delineation Manual and appropriate

Regional Supplement. The water bodies exhibit ordinary high water marks as indicated by the absence of vegetation in the stream channel and the presence of bed and banks sediment deposition.

#### D. Remarks

## E. Attention USDA Program Participants

This delineation/determination has been conducted to identify the limits of Corps' Clean Water Act jurisdiction for the particular site identified in this request. The delineation/determination may not be valid for the wetland conservation provisions of the Food Security Act of 1985. If you or your tenant are USDA Program participants, or anticipate participation in USDA programs, you should request a certified wetland determination from the local office of the Natural Resources Conservation Service, prior to starting work.

# F. Appeals Information (This information applies only to approved jurisdictional determinations as indicated in B. above)

This correspondence constitutes an approved jurisdictional determination for the above described site. If you object to this determination, you may request an administrative appeal under Corps regulations at 33 CFR part 331. Enclosed you will find a Notification of Appeal Process (NAP) fact sheet and request for appeal (RFA) form. If you request to appeal this determination you must submit a completed RFA form to the following address:

District Engineer, Wilmington Regulatory Division Attn: Ronnie Smith, Project Manager, Wilmington Regulatory Field Office 69 Darlington Ave Wilmington, North Carolina 28403

In order for an RFA to be accepted by the Corps, the Corps must determine that it is complete, that it meets the criteria for appeal under 33 CFR part 331.5, and that it has been received by the District Office within 60 days of the date of the NAP. Should you decide to submit an RFA form, it must be received at the above address by <u>October 7, 2013</u>.

\*\*It is not necessary to submit an RFA form to the District Office if you do not object to the determination in this correspondence.\*\*

Corps Regulatory Official: \_\_\_

Ronnie Smith

Date: August 6, 2013

The Wilmington District is committed to providing the highest level of support to the public. To help us ensure we continue to do so, please complete the Customer Satisfaction Survey located at our website at http://per2.nwp.usace.army.mil/survey.html to complete the survey online.

#### **ATTACHMENT**

### PRELIMINARY JURISDICTIONAL DETERMINATION FORM

### BACKGROUND INFORMATION

| A. | REPORT COMPLETIO    | N DATE FOR | PRELI | MINARY JURISDICTIONAL |
|----|---------------------|------------|-------|-----------------------|
|    | DETERMINATION (JD): | August     | 6,    | 2013                  |

- B. NAME AND ADDRESS OF PERSON REQUESTING PRELIMINARY JD: Tyler Stanton, NCDOT, 1598 Mail Service Center, Raleigh, NC 27699-1598

**34.522604** Universal Transverse Mercator: 17S 702601 3797789 Name of nearest waterbody: Tenmile Branch

Identify (estimate) amount of waters in the review area:

Non-wetland waters: linear feet: width (ft) and/or acres. 500 1

Cowardin Class: riverine
Stream Flow: perennial
Wetlands: acres. 2.35
Cowardin Class:

Name of any water bodies on the site that have been identified as Section 10 waters:

Tidal: N/A

Non-Tidal: Lumber River

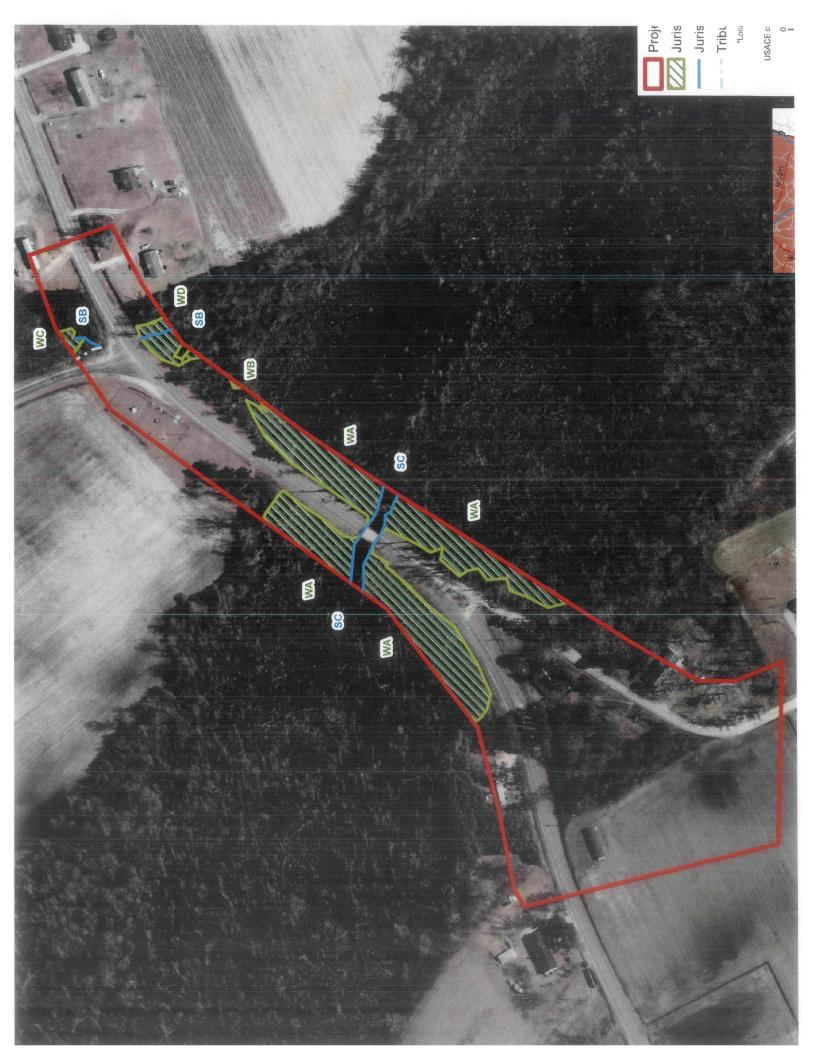
E. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

| Office (Desk) Determ | ination. | Date: |     |
|----------------------|----------|-------|-----|
| Field Determination. | Date(s): | 5-7   | -13 |

- 1. The Corps of Engineers believes that there may be jurisdictional waters of the United States on the subject site, and the permit applicant or other affected party who requested this preliminary JD is hereby advised of his or her option to request and obtain an approved jurisdictional determination (JD) for that site. Nevertheless, the permit applicant or other person who requested this preliminary JD has declined to exercise the option to obtain an approved JD in this instance and at this time.
- 2. In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "pre-construction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an approved JD for the activity, the permit applicant is hereby made aware of the following: (1) the permit applicant has elected to seek a permit authorization based on a preliminary JD, which does not make an official determination of jurisdictional waters; (2) that the applicant has the option to request an approved JD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an approved JD could possibly result in less compensatory mitigation being required or different special conditions; (3) that the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) that the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) that undertaking any activity in reliance upon the subject permit authorization without requesting an approved JD constitutes the applicant's acceptance of the use of the preliminary JD, but that either form of JD will be processed as soon as is practicable; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a preliminary JD constitutes agreement that all wetlands and other water bodies on the site affected in any way by that activity are jurisdictional waters of the United States, and precludes any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an approved JD or a preliminary JD, that JD will be processed as soon as is practicable. Further, an approved JD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331, and that in any administrative appeal, jurisdictional issues can be raised (see 33 C.F.R. 331.5(a)(2)). If, during that administrative appeal, it becomes necessary to make an official determination whether CWA jurisdiction exists over a site, or to provide an official delineation of jurisdictional waters on the site, the Corps will provide an approved JD to accomplish that result, as soon as is practicable. This preliminary JD finds that there "may be" waters of the United States on the subject project site, and identifies all aquatic features on the site that could be affected by the proposed activity, based on the following information:

| SU  | PPORTING DATA. Data reviewed for preliminary JD (check all that apply checked items should be included in case file and, where checked and requested, appropriately reference sources below):   |
|-----|---|
|     | Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: Environmental Services, Inc.  |
|     | Data sheets prepared/submitted by or on behalf of the   |
|     | applicant/consultant.   |
|     | Office concurs with data sheets/delineation report.  Office does not concur with data sheets/delineation report.  |
|     | ☐ Data sheets prepared by the Corps:  |
|     | Corps navigable waters' study:  |
|     | U.S. Geological Survey Hydrologic Atlas:  |
|     | ☐ USGS NHD data.  |
|     | ☐ USGS 8 and 12 digit HUC maps. ☐ U.S. Geological Survey map(s). Cite scale & quad name: Southeast  |
|     | Lumberton, NC 1:24,000.   |
|     | □ USDA Natural Resources Conservation Service Soil Survey.  |
|     | Citation:USDA Soil Survey of Robeson County.  |
|     | ☐ National wetlands inventory map(s). Cite name:  |
|     | State/Local wetland inventory map(s):   |
|     | ☐ FEMA/FIRM maps: .   |
|     | ☐ 100-year Floodplain Elevation is: (National Geodectic Vertical Datum of 1929)   |
|     | Photographs: Aerial (Name & Date):  |
|     | or Other (Name & Date):   |
|     | <ul> <li>☐ Previous determination(s). File no. and date of response letter:</li> <li>☑ Other information (please specify): 2007 Grid Elevation Data, NCDOT LiDAR, Robeson County, NC</li> </ul> |
| IM  | PORTANT NOTE: The information recorded on this form has not   |
| ne  | cessarily been verified by the Corps and should not be relied upon for  |
| lat | er jurisdictional determinations.   |
|     | 3-6-13 Signature and date of  |
|     | egulatory Project Manager person requesting preliminary JD  |
|     | EQUIRED) (REQUIRED, unless obtaining  |
|     | the signature is impracticable)   |

| Site<br>number | Latitude | Longitude | Cowardin<br>Class | Estimated of aquation resource area | Class of aquatic |                              |  |
|----------------|----------|-----------|-------------------|-------------------------------------|------------------|------------------------------|--|
|                |          |           |                   | Linear<br>ft.                       | Acres            | resource                     |  |
| SA             | 34.52395 | -78.96170 | Riverine          | 58                                  |                  | Non-Section<br>10- non-tidal |  |
| SB             | 34.52372 | -78.96151 | Riverine          | 137                                 |                  | Non-Section<br>10- non-tidal |  |
| WA             | 34.52233 | -78.96289 | Forested          |                                     | 2.17             | non-section<br>10 – wetland  |  |
| WB             | 34.52314 | -78.96198 | Shrub             |                                     | 0.01             | non-section<br>10 – wetland  |  |
| WC             | 34.52372 | -78.96151 | Forested          |                                     | 0.14             | non-section<br>10 – wetland  |  |
| WD             | 34.52372 | -78.96151 | Forested          |                                     | 0.03             | non-section<br>10 – wetland  |  |
| ( WE           | 34.52314 | -78.96198 | Forested          |                                     | 0.02             | non-section<br>10 – wetland  |  |
| SC             |          | MOA       | Riverine          | 2001                                |                  | non-section                  |  |
| l              |          |           |                   |                                     |                  |                              |  |





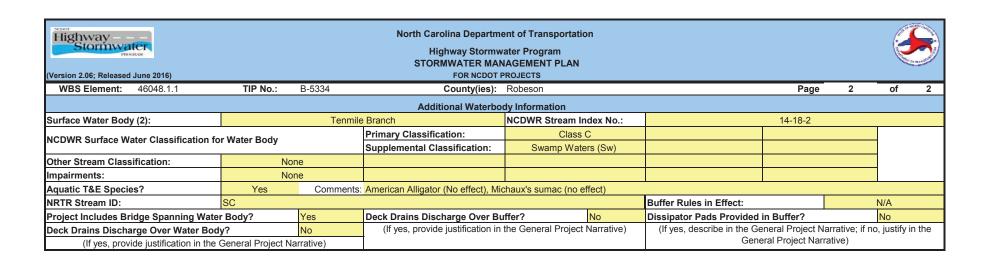
### North Carolina Department of Transportation

# Highway Stormwater Program STORMWATER MANAGEMENT PLAN

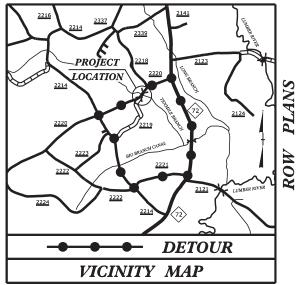


FOR MODEL PROJECTS

| (Version 2.06; Released J | une 2016)                 |                    |                  |                        | FOR NCDOT F      | PROJECTS              |                |              |                           |                |          |            |       |
|---------------------------|---------------------------|--------------------|------------------|------------------------|------------------|-----------------------|----------------|--------------|---------------------------|----------------|----------|------------|-------|
| WBS Element:              | 46048.1.1                 | TIP No.:           | B-5334           |                        | County(ies):     | Robeson               |                |              |                           | Page           | 1        | of         | 2     |
|                           |                           |                    |                  | Ge                     | eneral Project   | Information           |                |              |                           |                |          |            |       |
| WBS Element:              |                           | 46048.1.1          |                  | TIP Number:            | B-5334           |                       | Project        | Type:        | Bridge Replacement        | Date           | : 1      | 1/10/201   | 7     |
| NCDOT Contact:            |                           | Paul Atkinson      |                  |                        |                  | Contractor / Desig    |                |              |                           | thersbee, PE   |          |            |       |
|                           | Address:                  | 1020 Birch Ridge   | Rd.              |                        |                  |                       | Address:       | 8601 Six F   | orks Road, Suite 260      |                |          |            |       |
|                           |                           | Raleigh, NC 276    |                  |                        |                  |                       |                | Raleigh, No  |                           |                |          |            |       |
|                           |                           |                    |                  |                        |                  |                       |                |              |                           |                |          |            |       |
|                           | Phone:                    | 919-707-6707       |                  |                        |                  |                       | Phone:         | 919-926-41   | 105                       |                |          |            |       |
|                           | Email:                    | patkinson@ncdo     | t.gov            |                        |                  |                       | Email:         | richard.boll | linger@rsandh.com w       | ill.weathersb  | e@rsan   | dh.com     |       |
| City/Town:                |                           |                    | Lum              | berton                 |                  | County(ies):          | Robe           | son          |                           |                |          |            |       |
| River Basin(s):           |                           | Lun                | nber             |                        |                  | CAMA County?          | No             | )            |                           |                |          |            |       |
| Wetlands within Pro       | ect Limits?               | Yes                |                  | •                      |                  |                       | •              |              | •                         | •              |          |            |       |
|                           |                           |                    |                  |                        | Project Desc     | cription              |                |              |                           |                |          |            |       |
| Project Length (lin. r    | niles or feet):           | 0.                 | 12               | Surrounding L          |                  | Woods, Wetlands a     | nd Residentia  | I            |                           |                |          |            |       |
| ., (                      |                           | <u> </u>           |                  | Proposed Project       |                  |                       |                |              | Existing Site             | )              |          |            |       |
| Project Built-Upon A      | rea (ac.)                 |                    | 0.8              |                        | ac.              |                       |                | 0.5          | ac.                       |                |          |            |       |
| Typical Cross Section     |                           | Two 11' lanes wi   |                  | ' full depth paved) or |                  | , and two 11' lanes   | Two 10' lanes  |              | oulder on the approach,   | and two 10' la | nes with | 2' should  | lders |
|                           |                           | with 4'-5" should  |                  |                        |                  |                       | on the bridge. |              |                           |                |          |            |       |
|                           |                           |                    |                  |                        |                  |                       |                |              |                           |                |          |            |       |
|                           |                           |                    |                  |                        |                  |                       |                |              |                           |                |          |            |       |
| Annual Avg Daily Tra      | ffic (veh/hr/day):        | Design/Future      | e:               | 1973                   | Year:            | 2037                  | Existing:      |              | 1245                      |                | Year:    | 201        | 17    |
| General Project Narr      | ative:                    | This is a bridge r | eplacement proje | ect. The existing brid | dge 78 has a sp  | an arrangement of 1   | span @ 16'-2   | " and 1 spa  | ın @ 15'-6" . Proposed bi | ridge 78 is a  | span @   | 55'. NC    | DOT   |
| (Description of Minir     |                           |                    |                  |                        |                  | st extent practicable | during project | construction | n. No deck drains were u  | ised and ditch | grades l | have bee   | en    |
| Quality Impacts)          |                           | minimized to hav   | e non-erosive ve | locities entering the  | wetlands.        |                       |                |              |                           |                |          |            |       |
|                           |                           |                    |                  |                        |                  |                       |                |              |                           |                |          |            |       |
|                           |                           |                    |                  |                        |                  |                       |                |              |                           |                |          |            |       |
|                           |                           |                    |                  |                        |                  |                       |                |              |                           |                |          |            |       |
|                           |                           |                    |                  |                        |                  |                       |                |              |                           |                |          |            |       |
|                           |                           |                    |                  |                        |                  |                       |                |              |                           |                |          |            |       |
|                           |                           |                    |                  |                        |                  |                       |                |              |                           |                |          |            |       |
|                           |                           |                    |                  |                        |                  |                       |                |              |                           |                |          |            |       |
|                           |                           |                    |                  |                        |                  |                       |                |              |                           |                |          |            |       |
|                           |                           |                    |                  |                        |                  |                       |                |              |                           |                |          |            |       |
|                           |                           |                    |                  |                        |                  |                       |                |              |                           |                |          |            |       |
|                           |                           |                    |                  |                        |                  |                       |                |              |                           |                |          |            |       |
|                           |                           |                    |                  |                        |                  |                       |                |              |                           |                |          |            |       |
|                           |                           |                    |                  |                        |                  |                       |                |              |                           |                |          |            |       |
|                           |                           |                    |                  |                        | Waterbody Inf    |                       |                |              |                           |                |          |            |       |
| Surface Water Body        | (1):                      |                    | UT to Ten        | mile Branch            |                  | NCDWR Stream In       |                |              | 14-                       | -18-2          |          |            |       |
| NCDWR Surface Wa          | er Classification for     | r Water Body       |                  | Primary Classifica     | ation:           | Class (               | <u> </u>       |              |                           |                |          |            |       |
|                           |                           |                    |                  | Supplemental Cla       | ssification:     | Swamp Wate            | rs (Sw)        |              |                           |                |          |            |       |
| Other Stream Classi       | fication:                 | No                 | one              |                        |                  |                       |                |              |                           |                |          |            |       |
| Impairments:              |                           | No                 | one              |                        |                  |                       |                |              |                           |                |          |            |       |
| Aquatic T&E Species       | ?                         | Yes                | Comments         | : American Alligator   | (No effect), Mic | chaux's sumac (no et  | ffect)         |              |                           |                |          |            |       |
| NRTR Stream ID:           |                           | SB                 |                  |                        |                  |                       |                |              | es in Effect:             |                |          | I/A        |       |
| Project Includes Brid     | lge Spanning Water        | Body?              | No               | Deck Drains Discl      |                  |                       | No             |              | Pads Provided in Buff     |                |          | No         |       |
| Deck Drains Dischar       | ge Over Water Body        | /?                 | No               | (If yes, provide       | justification in | the General Project   | Narrative)     | (If yes, c   | describe in the General P |                |          | justify in | the   |
|                           | le justification in the 0 |                    | arrative)        |                        |                  |                       |                |              | General Pro               | ject Narrative | )        |            |       |
|                           |                           | •                  |                  |                        |                  |                       |                |              |                           |                |          |            |       |



See Sheet 1A For Index of Sheets See Sheet 1B For Conventional Symbols See Sheet 1C-1 For Survey Control Sheets



# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

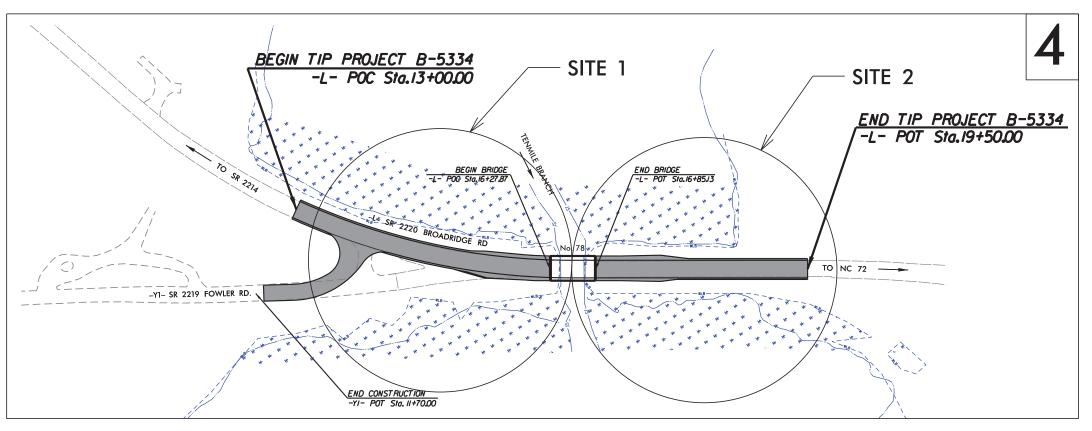
# ROBESON COUNTY

LOCATION: REPLACE BRIDGE 78 OVER TENMILE BRANCH ON SR 2220 (NORTH BROADRIDGE ROAD) TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND STRUCTURE

WETLAND AND SURFACE WATER IMPACTS PERMIT

| STATE | STATE       | NO.             | SHEETS |          |      |
|-------|-------------|-----------------|--------|----------|------|
| N.C.  | ļ l         | B-5334          |        | 1        |      |
| STAT  | B PROJ. NO. | F. A. PROJ. NO. |        | DESCRIPT | 1011 |
| 46    | 048.1.1     | BRZ-2220(4)     |        | PE       |      |
| 46    | 048.2.1     | BRZ-2220 (4)    |        | ROW,L    | ITIL |
|       |             |                 |        |          |      |
|       |             |                 |        |          |      |
|       |             |                 |        |          |      |
|       |             |                 |        |          |      |
|       |             |                 |        |          |      |
|       |             |                 |        |          |      |





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 II "MODIFIED" W/HAND CLEARING DONE BEYOND THE SLOPE STAKES.

# PERMIT DRAWING SHEET 1 OF 8

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

| ſ  | <b>GR</b> A | <i>PHI</i> | C SCALE    | es  |
|----|-------------|------------|------------|-----|
| 50 | 25          | o<br>O     | 50         | 100 |
| ╙  | Ш           | PL         | ANS        |     |
| 50 | 25          | Q          | 50         | 100 |
| Ш  | PROF        | ILE (H     | HORIZONTA  | AL) |
| 10 | 5           | Q          | 10         | 20  |
| UU | PR          | OFILE      | (VERTICAL) |     |

# DESIGN DATA

ADT 2017 = 1245ADT 2037 = 1973

K = 10 %D = 60 %

T = 5 % \*V = 60 MPH

# \*(TTST = 1% + DUAL = 4% FUNC CLASS = LOCAL SUB-REGIONAL TIER

#### PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-5334 = 0.112 MILE

LENGTH STRUCTURE TIP PROJECT B-5334 = 0.011 MILE

TOTAL LENGTH TIP PROJECT B-5334 = 0.123 MILE

8601 SIX FORKS RD, SUITE 260 RALEIGH, NC 27615 919-926-4100 FOR THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

2012 STANDARD SPECIFICATIONS RIGHT OF WAY DATE:

**DECEMBER 9, 2016** 

LETTING DATE: **DECEMBER 19, 2017** 

JENNIFER FARINO, PE PROJECT ENGINEER JARED BOND, PE PROIECT DESIGN ENGINEER

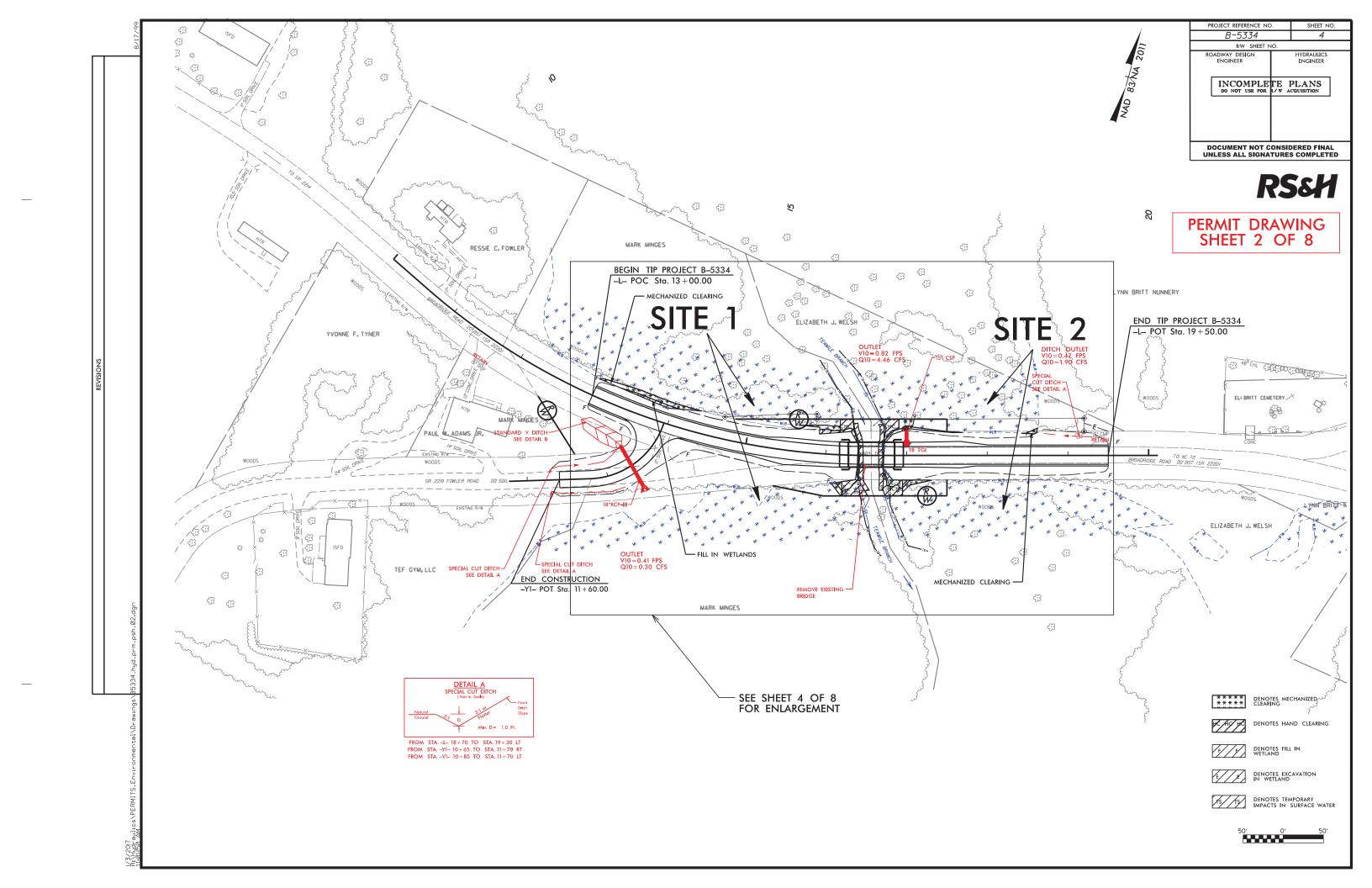
TATIA L. WHITE, PE, PLS

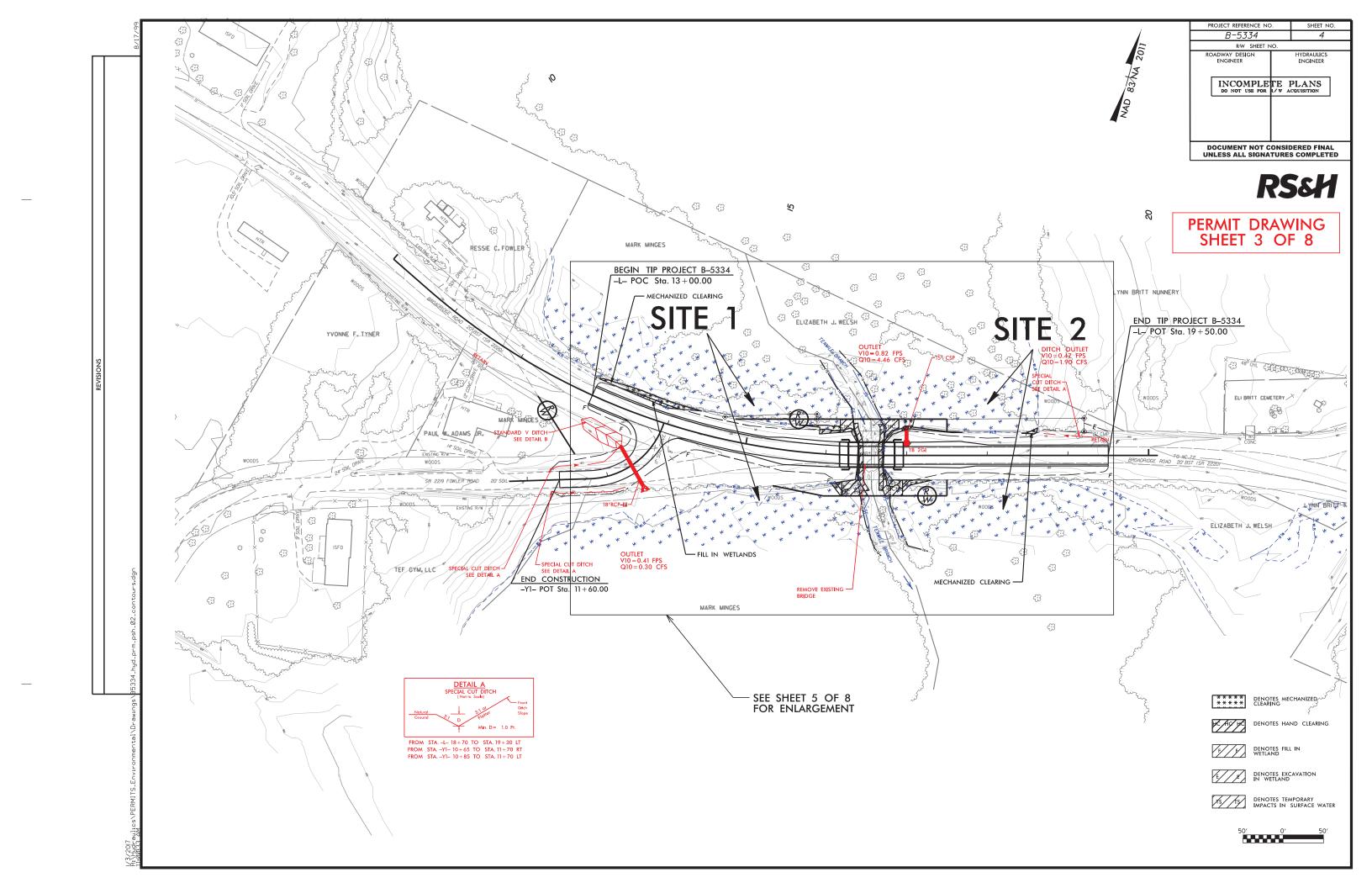
# HYDRAULICS ENGINEER

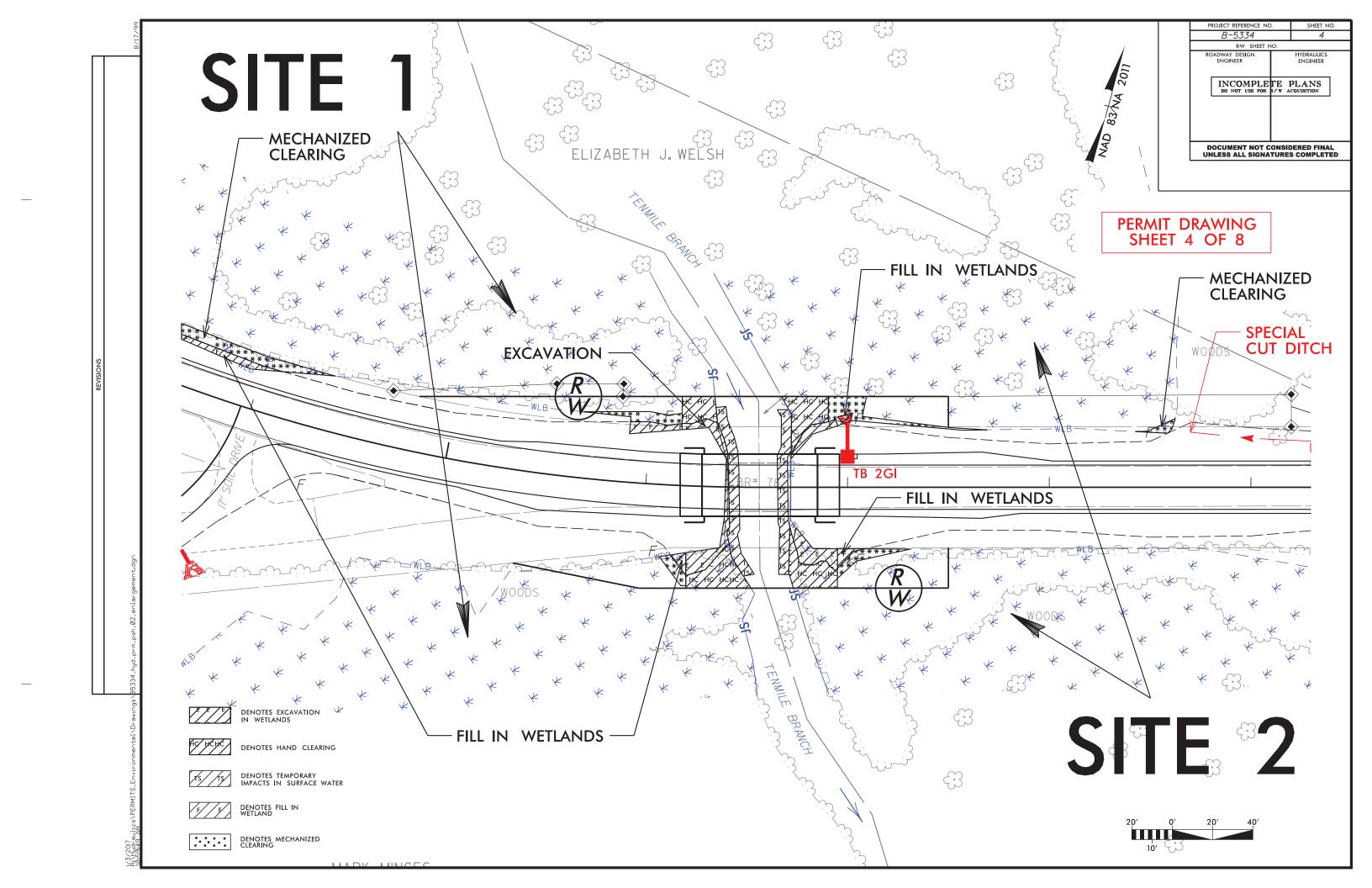
ROADWAY DESIGN **ENGINEER** 

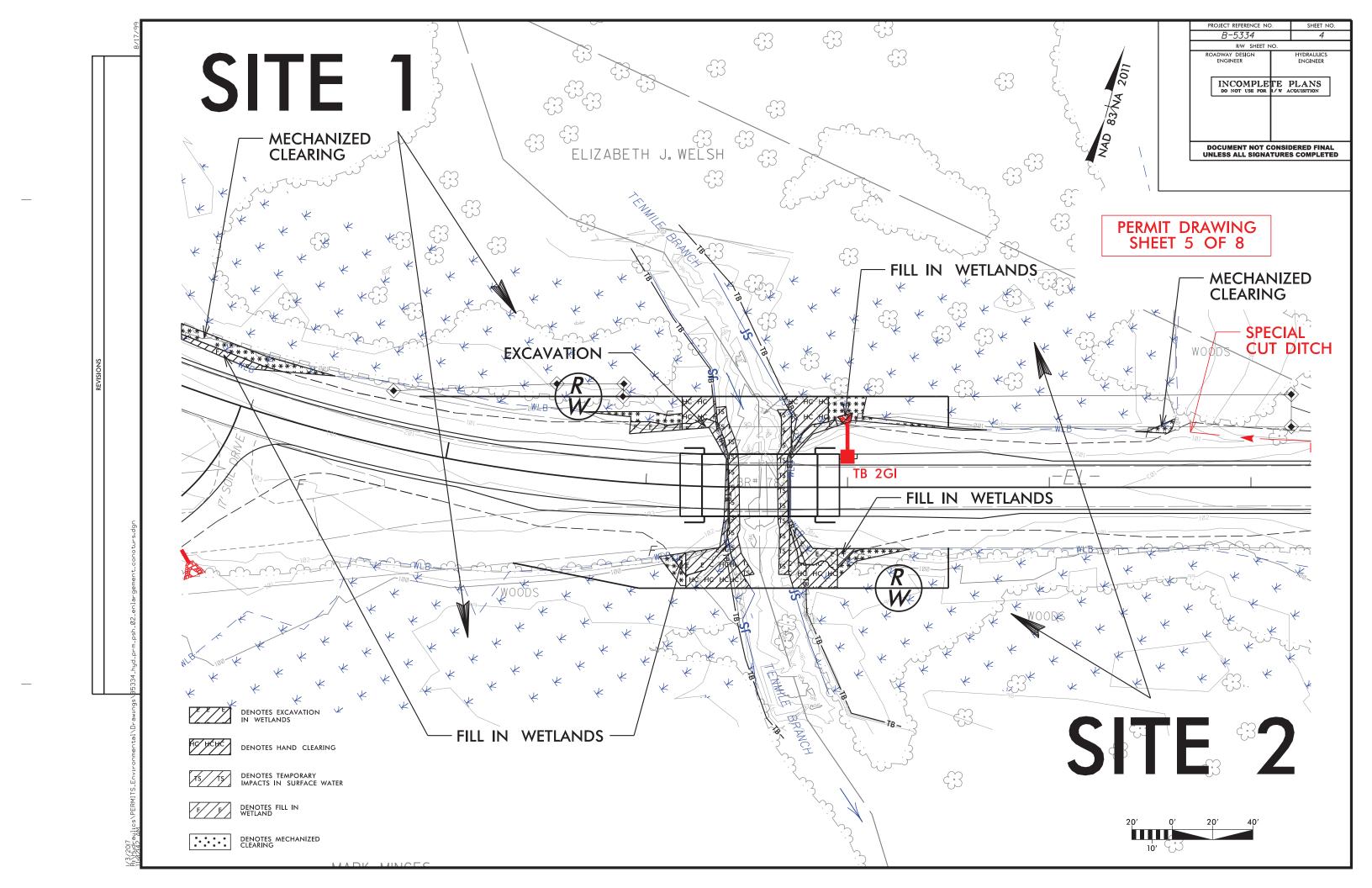
SIGNATURE:

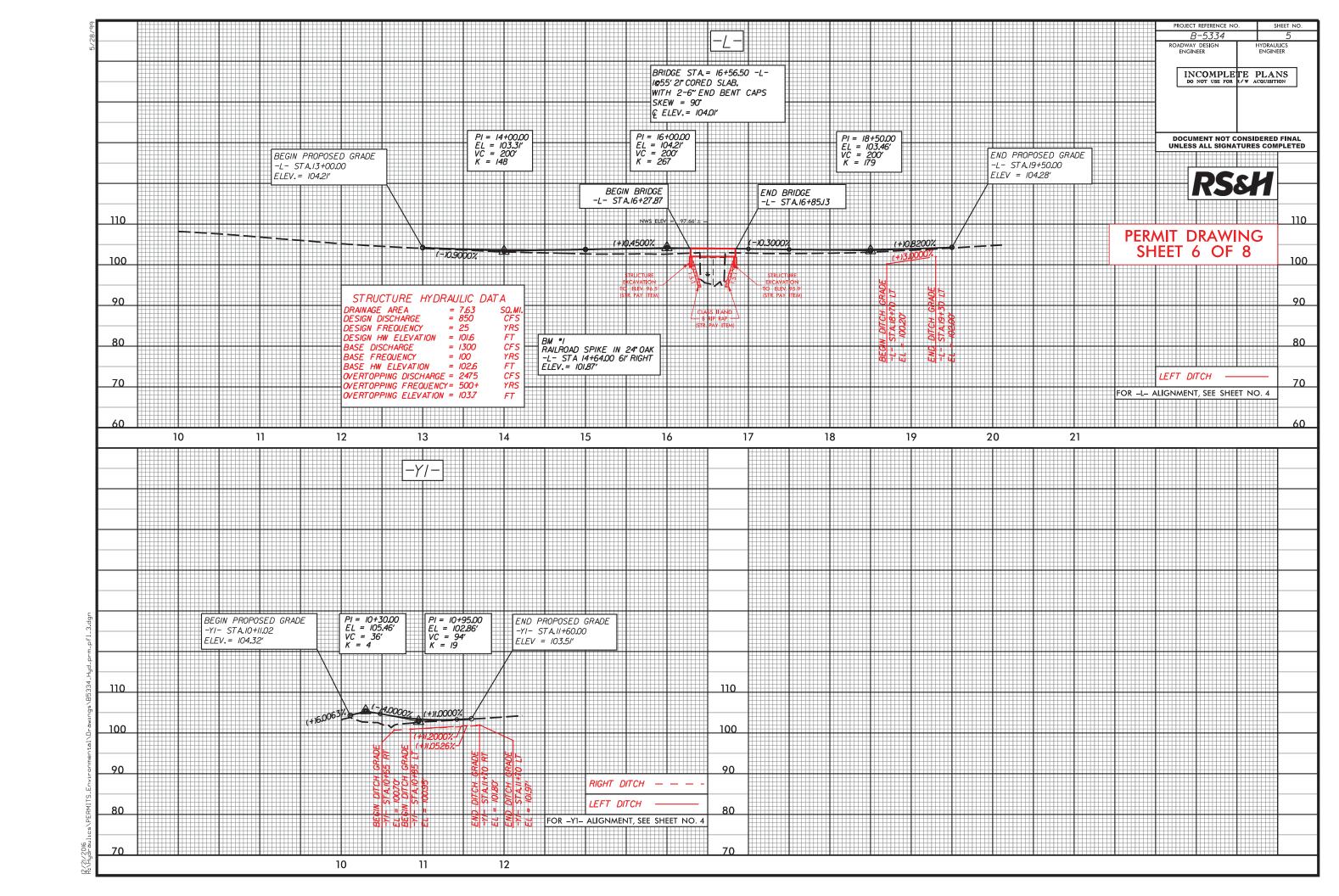


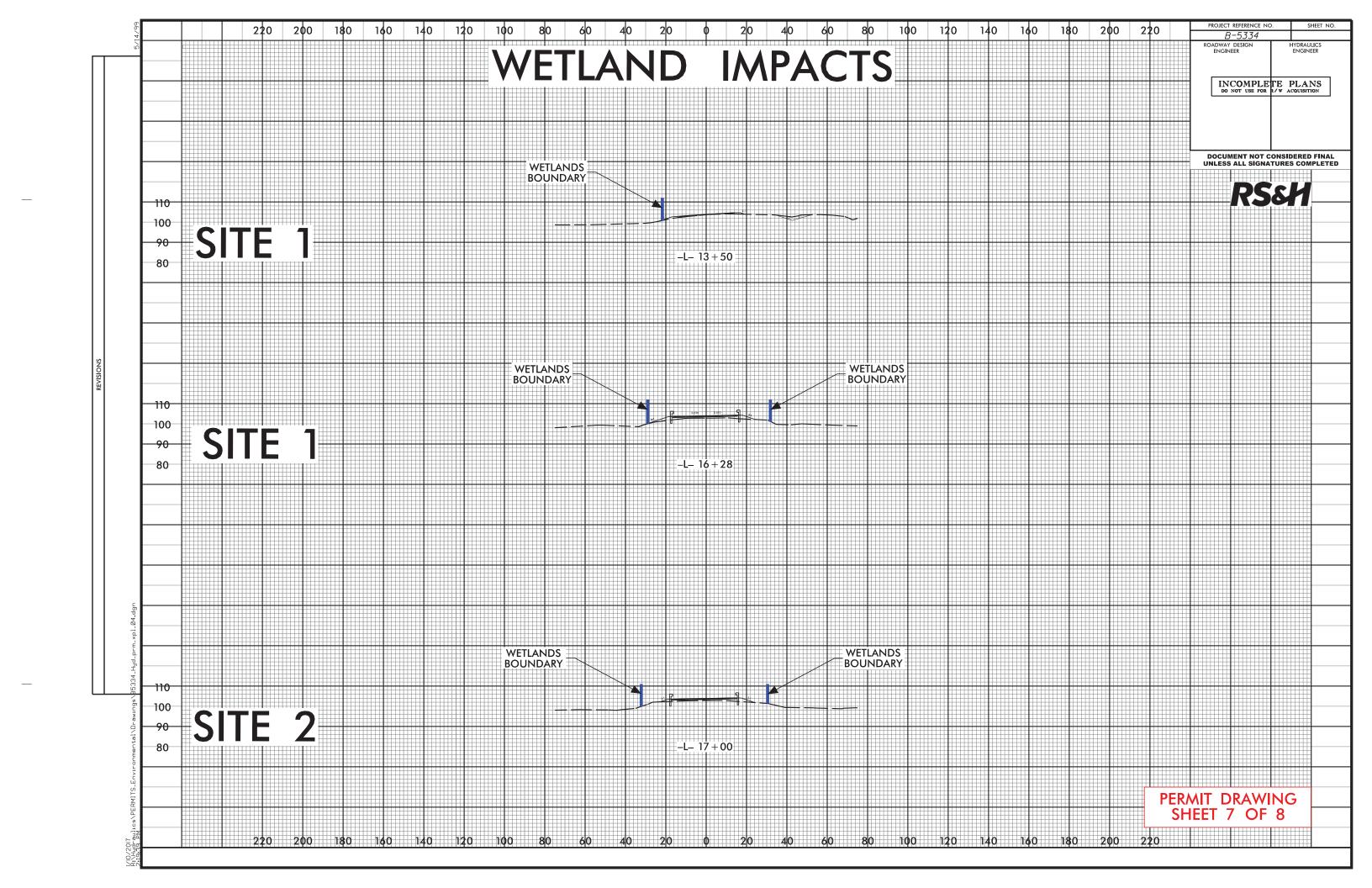












|         |                    |                    |           | WE       | TLAND IMPA | CTS        |          |           | SURFA   | ACE WATER IM | PACTS    |        |
|---------|--------------------|--------------------|-----------|----------|------------|------------|----------|-----------|---------|--------------|----------|--------|
|         |                    |                    |           |          |            |            | Hand     |           |         | Existing     | Existing |        |
|         |                    |                    | Permanent | Temp.    | Excavation | Mechanized | Clearing | Permanent | Temp.   | Channel      | Channel  | Natura |
| Site    | Station            | Structure          | Fill In   | Fill In  | in         | Clearing   | in       | SW        | SW      | Impacts      | Impacts  | Stream |
| No.     | (From/To)          | Size / Type        | Wetlands  | Wetlands | Wetlands   | _          | Wetlands | impacts   | impacts | Permanent    | Temp.    | Desigr |
|         |                    | ,.                 | (ac)      | (ac)     | (ac)       | (ac)       | (ac)     | (ac)      | (ac)    | (ft)         | (ft)     | (ft)   |
| 1       | -L- 13+00 to 16+70 | Roadway Fill Slope | < 0.01    |          |            | 0.02       |          |           |         |              |          | 1      |
| 1/2     | -L- 16+70 to 16+96 | Bridge 78          |           | < 0.01   | 0.02       | < 0.01     | 0.03     |           | 0.02    |              | 84       |        |
| 2       | -L- 16+96 to 19+50 | Roadway Fill Slope | < 0.01    |          |            | < 0.01     |          |           |         |              |          |        |
|         |                    |                    |           |          |            |            |          |           |         |              |          |        |
|         |                    |                    |           |          |            |            |          |           |         |              |          |        |
|         |                    |                    |           |          |            |            |          |           |         |              |          |        |
|         |                    |                    |           |          |            |            |          |           |         |              |          |        |
|         |                    |                    |           |          |            |            |          |           |         |              |          |        |
|         |                    |                    |           |          |            |            |          |           |         |              |          |        |
|         |                    |                    |           |          |            |            |          |           |         |              |          |        |
|         |                    |                    |           |          |            |            |          |           |         |              |          |        |
|         |                    |                    |           |          |            |            |          |           |         |              |          |        |
|         |                    |                    |           |          |            |            |          |           |         |              |          |        |
|         |                    |                    |           |          |            |            |          |           |         |              |          |        |
|         |                    |                    |           |          |            |            |          |           |         |              |          |        |
|         |                    |                    |           |          |            |            |          |           |         |              |          |        |
|         |                    |                    |           |          |            |            |          |           |         |              |          |        |
|         |                    |                    |           |          |            |            |          |           |         |              |          |        |
|         |                    |                    |           |          |            |            |          |           |         |              |          |        |
|         |                    |                    |           |          |            |            |          |           |         |              |          |        |
|         |                    |                    |           |          |            |            |          |           |         |              |          |        |
|         |                    |                    |           |          |            |            |          |           |         |              |          |        |
|         |                    |                    |           |          |            |            |          |           |         |              |          |        |
|         |                    |                    |           |          |            |            |          |           |         |              |          |        |
| OTALS*: |                    |                    | < 0.01    | < 0.01   | 0.02       | 0.03       | 0.03     |           | 0.02    | 0            | 84       |        |

<sup>\*</sup>Rounded totals are sum of actual impacts

## NOTES:

< 0.01 acre of Temporary Fill in Wetlands in the Hand Clearing areas for erosion control measures.

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
3/22/2017
Robeson

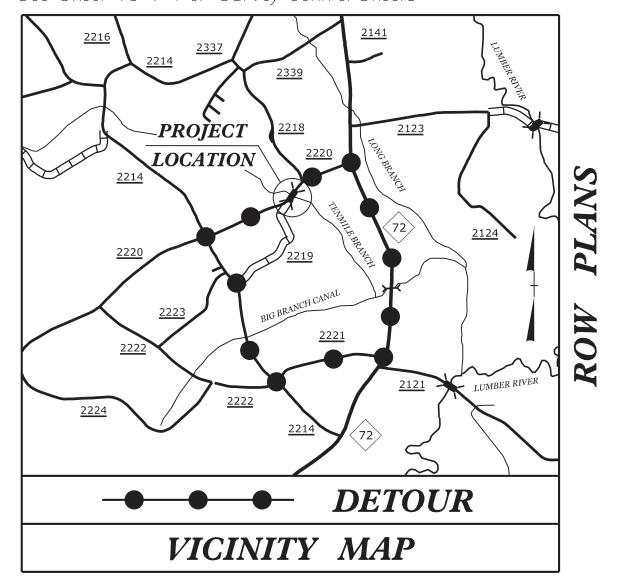
B-5334

46048.1.1

SHEET 8 OF 8

Revised 2013 10 24

See Sheet 1A For Index of Sheets See Sheet 1B For Conventional Symbols See Sheet 1C-1 For Survey Control Sheets



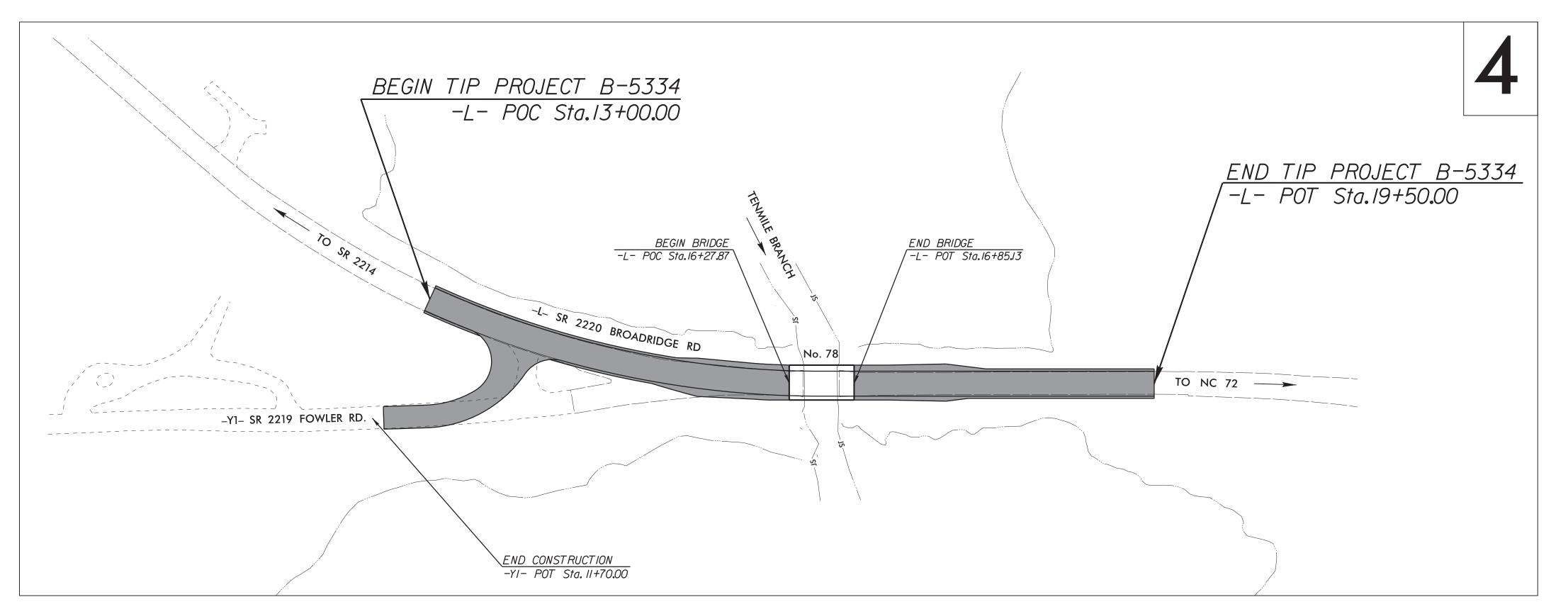
# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

# ROBESON COUNTY

LOCATION: REPLACE BRIDGE 78 OVER TENMILE BRANCH ON SR 2220 (NORTH BROADRIDGE ROAD) TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND STRUCTURE

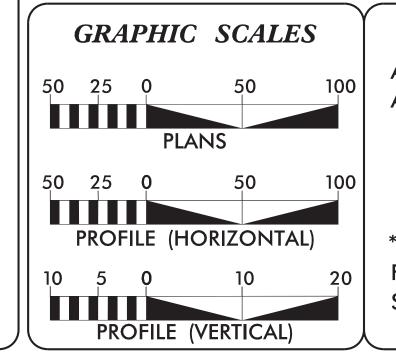
| STATE | STATE PROJECT REFERENCE NO. |                 |  | SHEET<br>NO. | TOTAL<br>SHEETS |  |
|-------|-----------------------------|-----------------|--|--------------|-----------------|--|
| N.C.  | I                           | 3–5334          |  | 1            |                 |  |
| STAT  | E PROJ. NO.                 | F. A. PROJ. NO. |  | DESCRIPT     | ION             |  |
| 46    | 048.1.1 BRZ-2220(4)         |                 |  | PE           |                 |  |
| 46    | 048.2.1                     |                 |  | ROW,L        | JTIL            |  |
|       |                             |                 |  |              |                 |  |
|       |                             |                 |  |              |                 |  |
|       |                             |                 |  |              |                 |  |
|       |                             |                 |  |              |                 |  |
|       |                             |                 |  |              |                 |  |
|       |                             |                 |  |              |                 |  |





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 II "MODIFIED" W/HAND CLEARING DONE BEYOND THE SLOPE STAKES.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



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# PLANS PREPARED BY:

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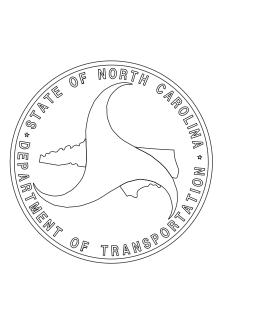
> TATIA L. WHITE, PE, PLS NCDOT CONTACT

# HYDRAULICS ENGINEER

**SIGNATURE**:

ROADWAY DESIGN **ENGINEER** 

**SIGNATURE**:



**BOUNDARIES AND PROPERTY:** State Line County Line RAILROADS: Township Line Standard Gauge City Line RR Signal Milepost Reservation Line Property Line RR Abandoned Existing Iron Pin RR Dismantled Property Corner RIGHT OF WAY: Property Monument Baseline Control Point Parcel/Sequence Number Existing Right of Way Marker Existing Fence Line Existing Right of Way Line Proposed Woven Wire Fence Proposed Right of Way Line Proposed Chain Link Fence Proposed Right of Way Line with Iron Pin and Cap Marker Proposed Barbed Wire Fence Existing Wetland Boundary Proposed Right of Way Line with Concrete or Granite R/W Marker Proposed Wetland Boundary Proposed Control of Access Line with Existing Endangered Animal Boundary Concrete C/A Marker Existing Endangered Plant Boundary Existing Control of Access Existing Historic Property Boundary Proposed Control of Access Known Contamination Area: Soil Existing Easement Line Potential Contamination Area: Soil **Proposed Temporary Construction Easement** Known Contamination Area: Water Proposed Temporary Drainage Easement-Potential Contamination Area: Water Proposed Permanent Drainage Easement **X X** Contaminated Site: Known or Potential Proposed Permanent Drainage / Utility Easement — **BUILDINGS AND OTHER CULTURE: Proposed Permanent Utility Easement** Gas Pump Vent or U/G Tank Cap Proposed Temporary Utility Easement – Proposed Aerial Utility Easement Proposed Permanent Easement with Small Mine Iron Pin and Cap Marker Foundation ROADS AND RELATED FEATURES: Area Outline Existing Edge of Pavement Cemetery Existing Curb Building Proposed Slope Stakes Cut School Proposed Slope Stakes Fill Church Proposed Curb Ramp Existing Metal Guardrail HYDROLOGY: Proposed Guardrail Stream or Body of Water Existing Cable Guiderail

Hydro, Pool or Reservoir -

Jurisdictional Stream

Buffer Zone 1

Buffer Zone 2

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS

# CONVENTIONAL PLAN SHEET SYMBOLS

CR

igoplus

Proposed Cable Guiderail

Note: Not to Scale \*S.U.E. = Subsurface Utility Engineering

| Orchard —  | සි සි සි    |
|--|-------------|
| Vineyard ————                                      | Vineyard    |
| EXISTING STRUCTURES:                               |             |
| MAJOR:   |             |
| Bridge, Tunnel or Box Culvert —————                | CONC        |
| Bridge Wing Wall, Head Wall and End Wall –         | ) CONC WW ( |
| MINOR:   |             |
| Head and End Wall                                  | CONC HW     |
| Pipe Culvert —                                     |             |
| Footbridge —                                       |             |
| Drainage Box: Catch Basin, DI or JB                | СВ          |
| Paved Ditch Gutter                                 |             |
| Storm Sewer Manhole —                              | (\$)        |
| Storm Sewer —                                      | s           |
| UTILITIES:   |             |
| POWER:   |             |
| Existing Power Pole                                | •           |
| Proposed Power Pole                                | 6           |
| Existing Joint Use Pole                            |             |
| Proposed Joint Use Pole —                          | -6-         |
| Power Manhole ———————————————————————————————————— | P           |
| Power Line Tower                                   | $\boxtimes$ |
| Power Transformer —                                | otin        |
| U/G Power Cable Hand Hole —                        |             |
| H-Frame Pole                                       | •—•         |
| U/G Power Line LOS B (S.U.E.*)                     | P           |
| U/G Power Line LOS C (S.U.E.*)                     |             |
| U/G Power Line LOS D (S.U.E.*)                     | P           |
| TELEPHONE:   |             |
| Existing Telephone Pole —                          | -•-         |
| Proposed Telephone Pole                            | -0-         |
| Telephone Manhole                                  | $\bigcirc$  |
| Telephone Pedestal —————                           |             |
| Telephone Cell Tower                               | ,Ā,         |

U/G Telephone Cable Hand Hole

U/G Telephone Cable LOS B (S.U.E.\*) —

U/G Telephone Cable LOS D (S.U.E.\*)

U/G Telephone Cable LOS C (S.U.E.\*) ------

| ATER:  |                     |
|--|---------------------|
| Vater Manhole  | - W                 |
| Vater Meter  | -                   |
| Vater Valve  | - ⊗                 |
| Vater Hydrant —  | - <b></b>           |
| VG Water Line LOS B (S.U.E*)                                   |                     |
| √G Water Line LOS C (S.U.E*)                                   | w                   |
| l/G Water Line LOS D (S.U.E*)                                  |                     |
| bove Ground Water Line   |                     |
| ':   |                     |
| :<br>V Pedestal  | - <u>C</u>          |
| V Tower  | -                   |
| VG TV Cable Hand Hole  |                     |
| I/G TV Cable LOS B (S.U.E.*)                                   |                     |
| I/G TV Cable LOS C (S.U.E.*)                                   |                     |
| I/G TV Cable LOS D (S.U.E.*)                                   |                     |
| √G Fiber Optic Cable LOS B (S.U.E.*) —                         |                     |
| 1/G Fiber Optic Cable LOS C (S.U.E.*)                          |                     |
| I/G Fiber Optic Cable LOS D (S.U.E.*)                          |                     |
|  |                     |
| AS:<br>Gas Valve   | ^                   |
| Gas Meter  | -                   |
|  | -                   |
| VG Gas Line LOS B (S.U.E.*)                                    |                     |
| VG Gas Line LOS C (S.U.E.*)                                    |                     |
| √G Gas Line LOS D (S.U.E.*)                                    |                     |
| above Ground Gas Line  | W 0 000             |
| NITARY SEWER:  |                     |
| anitary Sewer Manhole  | •                   |
| anitary Sewer Cleanout ———————                                 | ÷                   |
| VG Sanitary Sewer Line ————————————————————————————————————    |                     |
| bove Ground Sanitary Sewer                                     | A/G Sanitary Sewer  |
| S Forced Main Line LOS B (S.U.E.*)                             | - — — — FSS — — — — |
| S Forced Main Line LOS C (S.U.E.*)                             | - —— — FSS — — ——   |
| S Forced Main Line LOS D (S.U.E.*)                             | - FSS               |
|  |                     |
| SCELLANEOUS:   |                     |
| Jtility Pole ————————————————————————————————————              |                     |
| Itility Pole with Base ————————————————————————————————————    |                     |
| Itility Located Object ————————————————————————————————————    |                     |
| Itility Traffic Signal Box ——————————————————————————————————— |                     |
| Jtility Unknown U/G Line LOS B (S.U.E.*)                       |                     |
| VG Tank: Water Gas Oil   |                     |

PROJECT REFERENCE NO. SHEET NO. B-5334 /B

