

ePCN

U.S. Army Corps of Engineers (USACE)  
**NATIONWIDE PERMIT PRE-CONSTRUCTION NOTIFICATION (PCN)**

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

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

**DATA REQUIRED BY THE PRIVACY ACT OF 1974**

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

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

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

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

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

**PLEASE DO NOT RETURN YOUR RESPONSE TO THE ABOVE EMAIL.**

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

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

1. APPLICATION NO.	2. FIELD OFFICE CODE	3. DATE RECEIVED 05/29/2026	4. DATE APPLICATION COMPLETE
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**(ITEMS BELOW TO BE FILLED BY APPLICANT)**

<p>5. APPLICANT'S NAME</p> <p>First – Jason                      Middle – L                      Last – Dilday</p> <p>Company – North Carolina Department of Transportation</p> <p>Company Title –</p> <p>E-mail Address – jldilday1@ncdot.gov</p>	<p>8. AUTHORIZED AGENT'S NAME AND TITLE (<i>agent is not required</i>)</p> <p>First –                                      Middle –                                      Last –</p> <p>Company –</p> <p>E-mail Address –</p>
<p>6. APPLICANT'S ADDRESS</p> <p>Address – 1598 Mail Service Center</p> <p>City – Raleigh    State – NC    ZIP – 27606                      Country – US</p>	<p>9. AGENT'S ADDRESS</p> <p>Address –</p> <p>City –    State –    ZIP –                      Country –</p>
<p>7. APPLICANT'S PHONE NOs. with AREA CODE</p> <p>a. Business                      b.                      c. Fax</p> <p>+19197076111</p>	<p>10. AGENT'S PHONE NOs. with AREA CODE</p> <p>a.                                      b.                                      c. Fax</p>

**STATEMENT OF AUTHORIZATION**

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

\_\_\_\_\_  
SIGNATURE OF APPLICANT

\_\_\_\_\_  
DATE

**NAME, LOCATION, AND DESCRIPTION OF PROJECT OR ACTIVITY**

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

NCDOT/U-5813/UTs to Little River, UTs to Cedar Fork/US64/Randolph/44385.1.3

**NAME, LOCATION, AND DESCRIPTION OF PROJECT OR ACTIVITY**

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

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

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

Latitude: 35.6910956 °N      Longitude: -79.8493838 °W

Address: 1690 US Highway 64 W

City:      Asheboro      State:      NC      Zip:      27205

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

Section –      Township –      Range –  
County – Randolph County      Project Area – 5 Acres      State Tax Parcel ID –

17. DIRECTIONS TO THE SITE

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

GP 50 - NCDOT - Bridges, Road Widening and Interchanges

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

Widening of the existing US64 from the Asheboro Bypass to I-73/I-74/US220 Interchange in Asheboro.  
This project includes the construction of a 9'x8' RCBC to replace the existing 8'x7' culvert, increasing the size of current, undersized pipes to meet hydraulic demand and the relocation of streams to accommodate the widening of the road.

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

- Maintaining existing drainage patterns to the maximum extent practical.
- Riprap utilized at the outlet of open pipes
- Riprap proposed in ditches with high velocity
- No wetland impacts
- 2:1 fill slopes at jurisdictional streams
- Traffic will be maintained within the existing roadway and phased during construction. Design standards in Sensitive Watersheds will be used in the vicinity of all streams to Cedar Fork Creek.

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



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

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

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

Jason L Dilday

05/29/2026

SIGNATURE OF APPLICANT

DATE

SIGNATURE OF AGENT

DATE

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

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

**Instructions for Preparing a  
Department of the Army  
Nationwide Permit (NWP) Pre-Construction Notification (PCN)**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**Block 28. List the Wild and Scenic River or Congressionally Designated Study River if the Nationwide Permit Activity Would Occur in such a River.**

If the proposed NWP activity will occur in a river in the National Wild and Scenic River System or in a river officially designated by Congress as a "study river" under the Wild and Scenic Rivers Act, provide the name of the river. For a list of Wild and Scenic Rivers and study rivers, please visit <http://www.rivers.gov/>.

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

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

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

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

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

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

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

### **DRAWINGS AND ILLUSTRATIONS**

#### **General Information.**

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

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

#### **ADDITIONAL INFORMATION AND REQUIREMENTS**

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

**Appendix B. Aquatic Resource Inventory:**

<i>Aquatic Resource Name</i>	<i>State</i>	<i>Cowardin System</i>	<i>Cowardin Class</i>	<i>HGM Class</i>	<i>Local Waterway Name</i>	<i>Measurement Type</i>	<i>Measurement Amount</i>	<i>Measurement Units</i>	<i>Waters Type</i>	<i>Latitude</i>	<i>Longitude</i>
SJ	North Carolina	RIVERINE	R3- RIVERINE, UPPER PERENNIAL		Cedar Fork Creek	Linear	393	FOOT	DELIN.CONC	35.691811	-79.849132
Little River	North Carolina	RIVERINE	R3- RIVERINE, UPPER PERENNIAL		Little River	Linear	1045	FOOT	DELIN.CONC	35.683477	-79.828561
SA	North Carolina	RIVERINE	R4- RIVERINE, INTERMIT		Little River	Linear	476	FOOT	DELIN.CONC	35.685698	-79.828422
SC	North Carolina	RIVERINE	R4- RIVERINE, INTERMIT		Little River	Linear	125	FOOT	DELIN.CONC	35.684296	-79.828403
SD	North Carolina	RIVERINE	R4- RIVERINE, INTERMIT		Little River	Linear	22	FOOT	DELIN.CONC	35.68275	-79.829165
SE	North Carolina	RIVERINE	R3- RIVERINE, UPPER PERENNIAL		Little River	Linear	202	FOOT	DELIN.CONC	35.684412	-79.83151
SF	North Carolina	RIVERINE	R4- RIVERINE, INTERMIT		Cedar Fork Creek	Linear	122	FOOT	DELIN.CONC	35.689331	-79.830682
SG	North Carolina	RIVERINE	R3- RIVERINE, UPPER PERENNIAL		Cedar Fork Creek	Linear	31	FOOT	DELIN.CONC	35.68753	-79.839635
SI Intermittent	North Carolina	RIVERINE	R4- RIVERINE, INTERMIT		Cedar Fork Creek	Linear	749	FOOT	DELIN.CONC	35.688514	-79.845443
SI Perennial	North Carolina	RIVERINE	R3- RIVERINE, UPPER		Cedar Fork Creek	Linear	55	FOOT	DELIN.CONC	35.688173	-79.846262

			PERENNIAL								
SK	North Carolina	RIVERINE	R4-RIVERINE, INTERMIT		Cedar Fork Creek	Linear	235	FOOT	DELIN.CONC	35.692089	-79.849346
WA	North Carolina	PALUSTRINE	PAB-PALUSTRINE, AQUABED			Area	0.01	ACRE	DELIN.CONC	35.685007	-79.828198
SL	North Carolina	RIVERINE	R4-RIVERINE, INTERMIT		Cable Creek	Linear	53	FOOT	DELIN.CONC	35.6910956	-79.8493838
SH	North Carolina	RIVERINE	R4-RIVERINE, INTERMIT		Cedar Fork Creek	Linear	749	FOOT	DELIN.CONC	35.687556	-79.845739

**Appendix C. Impact Inventory:**

<i>Water Name</i>	<i>Impact Name</i>	<i>Activity</i>	<i>Type of Material Being Discharged</i>	<i>Resource Type</i>	<i>Permanent Loss (Y/N)</i>	<i>Impact Duration</i>	<i>Amount Type</i>	<i>Proposed Length</i>	<i>Proposed Width</i>	<i>Proposed Amount</i>	<i>Amount Units</i>
SL	Site 1 - Channel Stabilization	Discharge of fill material	Riprap	River/Stream	Yes	Permanent	Fill Area	52	2	104	Square Feet
SK	Site 2 - Stream Relocation	Discharge of fill material	Riprap	River/Stream	Yes	Permanent	Fill Area	103	2	206	Square Feet
SJ	Site 3 - Bank Stabilization	Discharge of fill material	Riprap	River/Stream	Yes	Permanent	Fill Area	14	8	112	Square Feet
SJ	Site 3 - 9' X 8' RCBC	Discharge of fill material	Culvert	River/Stream	Yes	Permanent	Fill Area	53	8	424	Square Feet
SJ	Site 3 - Bank Stabilization	Discharge of fill material	Riprap	River/Stream	Yes	Permanent	Fill Area	36	8	288	Square Feet
SH	Site 4 - Stream Relocation	Discharge of fill material	Riprap	River/Stream	Yes	Permanent	Fill Area	190	5	950	Square Feet
SA	Site 8 - 36" RCP-IV	Discharge of fill material	riprap	River/Stream	Yes	Permanent	Fill Area	55	3	165	Square Feet
SF	Site 7 - Stream relocation	Discharge of fill material	riprap	River/Stream	Yes	Permanent	Fill Area	120	1.5	180	Square Feet
SF	Site 7 - Channel Change	Discharge of fill material	Riprap	River/Stream	Yes	Permanent	Fill Area	12	1.5	18	Square Feet
SF	Site 7 - 18" HDPE	Discharge of fill material	Pipe	River/Stream	Yes	Permanent	Fill Area	16	1.5	24	Square Feet
SE	Site 6 - 36" HDPE	Discharge of fill material	Pipe	River/Stream	Yes	Permanent	Fill Area	19	6	114	Square Feet
SI Intermittent	Site 5 - Riprap at embankment	Discharge of fill material	Riprap	River/Stream	Yes	Permanent	Fill Area	5	2	10	Square Feet
SL	Site 1 - Channel Stabilization	Discharge of fill material	Riprap	River/Stream	No	Temporary	Fill Area	10	2	20	Square Feet
SK	Site 2 - Stream Relocation	Discharge of dredged material	riprap	River/Stream	No	Temporary	Fill Area	31	2	62	Square Feet
SJ	Site 3 - Bank Stabilization	Discharge of fill material	Riprap	River/Stream	No	Temporary	Fill Area	5	8	40	Square Feet
SJ	Site 3 - Bank Stabilization	Discharge of fill material	Riprap	River/Stream	No	Temporary	Fill Area	10	8	80	Square Feet

SH	Site 4 - Stream relocation	Discharge of fill material	Pipe	River/Stream	No	Permanent	Fill Area	11	5	55	Square Feet
SI Intermittent	Site 5 - Riprap at embankment	Discharge of fill material	Riprap	River/Stream	No	Temporary	Fill Area	20	2	40	Square Feet
SE	Site 6 - 36" HDPE	Discharge of dredged material	Riprap	River/Stream	No	Temporary	Fill Area	23	6	138	Square Feet
SF	Site 7 - 18" HDPE	Discharge of fill material	Riprap	River/Stream	No	Temporary	Fill Area	20	1.5	30	Square Feet
SF	Site 7 - Channel Change	Discharge of fill material	Riprap	River/Stream	No	Temporary	Fill Area	10	1.5	15	Square Feet
SA	Site 8 - 36" RCP-IV	Discharge of fill material	Riprap	River/Stream	No	Temporary	Fill Area	17	3	51	Square Feet

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

Impacts as listed in table were already permitted in 2021, but RGP expired without renewal. This is a re-application for an RGP 50 so that construction activity can recommence in previously permitted areas once re-authorized.

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

<i>Mitigation Entry Name</i>	<i>Mitigation Type</i>	<i>Name</i>	<i>Credit Unit</i>	<i>Proposed Credit Amount</i>
All streams HUC 03040103	In-lieu Fee		Linear Feet Based	551
All streams HUC 03040104	In-lieu Fee		Linear Feet Based	74

**Appendix H.** Supporting Information:

<i>Document Type</i>	<i>Document Created Date (YYYY-MM-DD)</i>	<i>Document Label</i>	<i>Information Source/Citation</i>	<i>Uploaded file name</i>
Mitigation Plan	2026-05-29	DMS Acceptance Letter	NCDOT	U-5813 - STR - YD 103 & 104.pdf
Other Information	2026-05-29	Previously Issued Permits - 2021	NCDOT	U-5813 General Randolph April 8 2021.pdf
Project Plans	2020-09-02	Permit Drawings	NCDOT	U-5813_Permit Drawing Package.pdf
Historic Properties Cultural Resources Information	2019-01-23	HPO Document	NCDOT	U5813 HPO_forms.pdf
Project Plans	2026-05-29	U-5813 CP4C Meeting Minutes	NCDOT	U5813_Final CP4C Meeting Minutes_HNTB Response to Comments.pdf

U.S. Army Corps of Engineers (USACE)

APPLICATION FOR DEPARTMENT OF THE ARMY PERMIT – PARTNER APPENDIX

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

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

PARTNER INFORMATION

<b>ORGANIZATION:</b> NC Division of Water Resources (DWR)	<b>PARTNER ID:</b>	<b>NAME AND CODE:</b> <b>Form Name:</b> NATIONWIDE/GENERAL/INDIVIDUAL PERMIT - DWR 401 Application Form NC Division of Water Resources Application Information <b>Form Code:</b> NCDWR 401
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In North Carolina, many activities covered by Nationwide and Regional General Permits, as well as Individual Permits, also require a 401 Water Quality Certification from the Division of Water Resources. To streamline the application process for both the U.S. Army Corps of Engineers (USACE) and the North Carolina Division of Environmental Quality (NCDEQ) - Division of Water Resources (DWR), we have collaborated on this joint application form.

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

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

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

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

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

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

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

SUPPLEMENTAL INFORMATION COLLECTED

ADDITIONAL CONTACT INFORMATION - Property Owner

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

- Provide Primary Property Owner information
  - Please see the JPA\_ContactReport.xlsx to review the provided contact data.
- Provide Additional Property Owner information
  - Please see the JPA\_ContactReport.xlsx to review the provided contact data.

**PROCESSING INFORMATION -**

- Does the project involve maintenance dredging funded by the Shallow Draft Navigation Channel Dredging and Aquatic Weed Fund OR involve the distribution or transmission of energy or fuel (including natural gas, diesel, petroleum, or electricity)?
  - No
- Is this project connected with (American Rescue Plan Act) ARPA funding or S.L. 2023-134 (earmark)?
  - No
- Please select:
  - Not Applicable (Question not presented)
- Please provide the DWI ARPA Funding Project Number (ie: SRP-W-ARP-1234 or SRP-W-134-1234):  
 \*The DWI Funding Project number can be located on the "Letter of Intent to Fund" (LOIF) or "Offer and Acceptance Letter". If you do not know your DWI project #, please contact your DWI project manager or fund recipient (e.g., LGU).
  - Not Applicable (Question not presented)
- Is this a NC Division of Mitigation Services (NCDMS) Project? Note - Select Yes only if NCDMS is the applicant/co-applicant.
  - No
- Is this project a public transportation project?
  - Yes
- Is this a NC Department of Transportation (NCDOT) project?
  - Yes
- (NCDOT only) T.I.P. (Transportation Improvement Program) or state project number:
  - U-5813
- (NCDOT only) WBS #
  - 44385.1.3
- Application for NC Division of Water Resources (DWR) Certification.  
 Type(s) of approval sought from the DWR? (Select all that apply)
  - 401 Water Quality Certification - Courtesy Copy Only
- Is this a modification OR new project with existing ID?
  - Yes
- Please provide the DWR ID number.
  - Not Applicable (Question not presented)

- Is the project located in any of NC's twenty coastal counties?
  - No
- Is the project located within a NC Division of Coastal Management (DCM) Area of Environmental Concern (AEC)?
  - Not Applicable (Question not presented)
- Is the project located in a designated trout watershed? [Learn more about Trout](https://www.saw.usace.army.mil/Missions/Regulatory-Permit-Program/Agency-Coordination/Trout.aspx)
  - No
- If yes, attach a copy of existing correspondence from the Wildlife Resource Commission Office.
  - Not Applicable (Question not presented)

**WATERS DETAILS -**

- Name of nearest waterbody? [Surface Water Lookup](https://experience.arcgis.com/experience/7073e9122ab74588b8c48ded34c3df55/)
  - Cedar Fork Creek
- Does the proposed activity impact perennial or intermittent streams?
  - Yes
- Please ensure that the Aquatic Resource Inventory section includes all perennial and intermittent streams and be sure to identify them with appropriate Cowardin codes.  
(Click the Aquatic Resources Inventory in the menu on the left to navigate to that section.)

Note: Use the Cowardin Code "R2 or R3" for perennial. Use Cowardin Code "R4" for intermittent.

\*\*If no code provided, waters will be assumed to be perennial.\*\*

- Not Applicable (Question not presented)

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

- Will the project result in impacts to Non-404 JD waters?
  - Not Applicable (Question not presented)
- Please ensure that the associated Non-404 Jurisdictional Waters have been entered in the Aquatic Resource Inventory section of the Permit Application. Use the Aquatic Resource Type of "DELIN.NOJD-404".  
(Click the "Aquatic Resources Inventory" option in the menu on the left to navigate to that section.)
  - Not Applicable (Question not presented)

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

- Will project occur in an area subject to state riparian buffer regulations?
  - No
- Will project result in any impacts within a protected riparian buffer?
  - Not Applicable (Question not presented)

- Which protected basin(s) is the project located within?
  - Not Applicable (Question not presented)
  
- Other Protected Basin
  - Not Applicable (Question not presented)
  
- Are the buffer regulations implemented by a delegated local government?
  - Not Applicable (Question not presented)
  
- Please specify which local government.
  - Not Applicable (Question not presented)
  
- Impact Details
  - Please see the JPA\_DynamicTableReport.xlsx to review the provided data.
  
- Total Temporary Buffer Impacts
  - Not Applicable (Question not presented)
  
- Total Permanent Buffer Impacts
  - Not Applicable (Question not presented)
  
- Total Combined Buffer Impacts
  - Not Applicable (Question not presented)
  
- Will the project result in an impact within a protected riparian buffer that requires buffer mitigation?
  - Not Applicable (Question not presented)
  
- If yes, you must fill out this entire section - please contact DWR for more information.  
 Identify the square feet of impact to each zone of the riparian buffer that requires mitigation. Calculate the amount of mitigation required in the table below.
  - Please see the JPA\_DynamicTableReport.xlsx to review the provided data.
  
- How is buffer mitigation proposed to be met?
  - Not Applicable (Question not presented)
  
- If payment to mitigation bank or NCDMS, attach a valid statement of availability or DMS acceptance letter. OR Attach mitigation plan for review.
  - Not Applicable (Question not presented)

**STORMWATER MANAGEMENT PLAN -**

- Does this project disturb >1 acre of land?
  - Yes
  
- Is this an NCDOT project subject to compliance with NCDOT's Individual NPDES permit NCS000250?
  - Yes
  
- Is this project subject to review and approval under a state post-construction stormwater program (DEMLR) or state-approved local government stormwater program?
  - Not Applicable (Question not presented)

- What entity has reviewed/is reviewing the Stormwater Management Plan?
  - Not Applicable (Question not presented)
- What is the Stormwater Management Plan status?
  - Not Applicable (Question not presented)
- Does this project meet the requirements for low density projects as defined in 15A NCAC 02H.1003(2)? For details on how Low Density Projects are characterized, click the help icon.
  - Not Applicable (Question not presented)
- For low density projects, submit documentation including built-upon area (BUA) delineation, percent BUA calculations, stormwater drainage plan, and designs for vegetated conveyances.
  - Not Applicable (Question not presented)
- For all High Density projects submit a Stormwater Management Plan that includes stormwater control measures for water quality treatment.
  - Not Applicable (Question not presented)

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

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

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

#### **ENVIRONMENTAL DOCUMENTATION -**

- Is an environmental document required under NCEPA (01 NCAC 25 .0100)?
  - Yes
- Has the document review been finalized by the State Clearing House?
  - Yes
- Comments
  - Not Applicable (Question not presented)
- Attach a copy of the SEPA final approval document.
  - U-5813\_CE.pdf File(s) Uploaded

#### **VIOLATIONS -**

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

- No

- Please explain.

- Not Applicable (Question not presented)

**CUMULATIVE IMPACTS -**

- Will this project (based on past and reasonably anticipated future impacts) result in additional development?

- No

- Provide a qualitative or quantitative cumulative impact analysis in accordance with the most recent DWR policy. [Learn more about Cumulative Impact Policy]([https://files.nc.gov/ncdeq/Water%20Quality/Surface%20Water%20Protection/401/Policies\\_Guides\\_Manuals/CumulativeImpactPolicy.pdf](https://files.nc.gov/ncdeq/Water%20Quality/Surface%20Water%20Protection/401/Policies_Guides_Manuals/CumulativeImpactPolicy.pdf))

- Not Applicable (Question not presented)

- If not, provide a short narrative description.

- Not Applicable (Question not presented)

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[Additional Instructions](<https://edocs.deq.nc.gov/WaterResources/Browse.aspx?dbid=0&startid=3890140>)

U.S. Army Corps of Engineers (USACE)

**PERMIT INFORMATION SHEET**

PERMIT FORM TYPE

ENG 6082

DATE RECEIVED

05/29/2026

TYPE OF PERMIT YOU'RE REQUESTING

Standard

Letter Of Permission

General Permit

APPLICABLE STATUTORY AUTHORITY

Section 404 Clean Water Act

Section 10 Rivers and Harbors Act

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

DO YOU PROPOSE COMPENSATORY MITIGATIONS?

Yes

**COASTAL DISTRICT**

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

No

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

**SECTION 408 USACE CIVIL WORKS PROJECTS**

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

Yes

No

I'm not sure

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

Yes

No

**GENERAL PERMIT INFORMATION**

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

Yes

# Project Submittal Interim Form



Updated March 16, 2026

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

## Project Type: \*

- |  |   |
|--|---|
| <input checked="" type="radio"/> For the Record Only (Courtesy Copy) | <input type="radio"/> New Project               |
| <input type="radio"/> Modification/New Project with Existing ID      | <input type="radio"/> More Information Response |
| <input type="radio"/> Other Agency Comments                          | <input type="radio"/> Pre-Application Submittal |
| <input type="radio"/> Re-Issuance\Renewal Request                    | <input type="radio"/> Stream or Buffer Appeal   |

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

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

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

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

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

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

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

## Submittal Type: \*

Application Attachments

## Project Contact Information

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### Name:

Erin Cheely

*Who is submitting the information?*

### Email Address: \*

ekcheely@ncdot.gov

## Project Information

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### Project Name: \*

NCDOT/U-5813/UTs to Little River, UTs to Cedar Fork/US64/Randolph/44385.1.3

Is this a public transportation project? \*

Yes

No

Is this a DOT project? \*

Yes

No

TIP#:

U-5813

WBS#:

44385.1.3

(Applies to DOT projects only)

### Project Status

Pre-let  Under Construction  Utility Relocation Underway

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

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

Yes  No

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

Yes  No  Unknown

Does this project involve maintenance dredging funded by the Shallow Draft Navigation Channel Dredging and Aquatic Weed Fund, electric generation projects located at an existing or former electric generating facility, or involve the distribution or transmission of energy or fuel, including natural gas, diesel, petroleum, or electricity? \*

Yes  No

Is this project connected with ARPA funding or S.L. 2023-134 (earmark)? \*

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

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

Yes  No

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### County (ies) \*

Randolph

### Please upload all files that need to be submitted.

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

Generated_Cheely_43776_50381_0_Permit_Additional_Info.pdf	217.89KB
U-5813 - STR - YD 103 & 104.pdf	468.91KB
U-5813 General Randolph April 8 2021.pdf	23.55MB
U5813 HPO_forms.pdf	1.4MB
U-5813_CE.pdf	4.17MB
U5813_Final CP4C Meeting Minutes_HNTB Response to Comments.pdf	162.26KB
U-5813_Permit Drawing Package.pdf	39.71MB
Generated_Cheely_43776_50381_0_Appx_B_Aquatic_Resources.pdf	56.6KB
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Generated_Cheely_43776_50381_0_Appx_H_Supporting_Files.pdf	53.28KB
Generated_Cheely_43776_50381_0_ENG_6082_PCN.pdf	550KB
Generated_Cheely_43776_50381_0_NCDWR 401_JPA_Report.pdf	94.2KB

Only pdf or kmz files are accepted.

**Describe the attachments or add comments:**

Submitted to USACE via RRS

\*

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

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



**Signature: \***



A rectangular box containing a handwritten signature in black ink that reads "Erin K. Cheely".

**Submittal Date:**

5/29/2026

# Permit Drawings

		North Carolina Department of Transportation Highway Stormwater Program <b>STORMWATER MANAGEMENT PLAN</b> FOR NCDOT PROJECTS					
(Version 2.08; Released April 2018)							
WBS Element: 44385.1.3		TIP No.: U-5813	County(ies): Randolph		Page 1 of 3		
General Project Information							
WBS Element:		44385.1.3	TIP Number:	U-5813	Project Type:	Roadway Widening	
NCDOT Contact:		Tatia L White, PE, PLS	Contractor / Designer:	John Hornbeck			
		Address:	1000 Birch Ridge Drive Raleigh, NC 27610		Address:	343 E. Six Forks Road Suite 200 Raleigh, NC 27609	
		Phone:	(919) 707-6342		Phone:	(919)-424-3301	
		Email:	twhite@ncdot.gov		Email:	ghornbeck@HNTB.com	
City/Town:		Asheboro		County(ies):	Randolph		
River Basin(s):		Yadkin-Pee Dee	CAMA County?	No			
Wetlands within Project Limits?		Yes					
Project Description							
Project Length (lin. miles or feet):		1.97	Surrounding Land Use:	Urban			
		Proposed Project			Existing Site		
Project Built-Upon Area (ac.)		34.8	ac.	26.0	ac.		
Typical Cross Section Description:		4-lane divided roadway consisting of 12' travel lanes and curb and gutter			3-lane divided roadway consisting of 12' travel lanes and 4' shoulders		
Annual Avg Daily Traffic (veh/hr/day):		Design/Future:	35700	Year:	2040	Existing:	
					32200	Year:	
					2020		
General Project Narrative: (Description of Minimization of Water Quality Impacts)		Minimum measures for the drainage design included: - Maintaining existing drainage patterns to the maximum extent practical. - Maximum side slopes of 2:1. - Rip-rap pads utilized at the outlet of any open pipe. - Rip-rap proposed in ditches with high velocity and shear stress. - No wetland impacts. - Minimized to 610 linear feet if permanent stream impacts.					
Waterbody Information							
Surface Water Body (1):		UT to Cedar Fork Creek		NCDWR Stream Index No.:	13-2-3-3-2-2-(1)		
NCDWR Surface Water Classification for Water Body		Primary Classification:	Water Supply II (WS-II)				
		Supplemental Classification:	High Quality Waters (HQW)				
Other Stream Classification:							
Impairments:							
Aquatic T&E Species?		Comments:					
NRTR Stream ID:		SK, SJ, SH, SI, SF, SG			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)					

	North Carolina Department of Transportation Highway Stormwater Program <b>STORMWATER MANAGEMENT PLAN</b> FOR NCDOT PROJECTS								
(Version 2.08; Released April 2018)									
WBS Element:	44385.1.3	TIP No.:	U-5813	County(ies):	Randolph	Page	2	of	3
<b>Additional Waterbody Information</b>									
<b>Surface Water Body (2):</b>		UT to Little River			<b>NCDWR Stream Index No.:</b>		13-25-(1)		
<b>NCDWR Surface Water Classification for Water Body</b>		<b>Primary Classification:</b>		Class C					
		<b>Supplemental Classification:</b>							
<b>Other Stream Classification:</b>									
<b>Impairments:</b>									
<b>Aquatic T&amp;E Species?</b>				<b>Comments:</b>					
<b>NRTR Stream ID:</b>		SA, SC, SE, SD			<b>Buffer Rules in Effect:</b>		N/A		
<b>Project Includes Bridge Spanning Water Body?</b>		No		<b>Deck Drains Discharge Over Buffer?</b>		No		<b>Dissipator Pads Provided in Buffer?</b>	
<b>Deck Drains Discharge Over Water Body?</b>		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)		N/A	
(If yes, provide justification in the General Project Narrative)									
<b>Surface Water Body (3):</b>		UT to Cable Creek			<b>NCDWR Stream Index No.:</b>		13-2-3-3-3		
<b>NCDWR Surface Water Classification for Water Body</b>		<b>Primary Classification:</b>		Class C					
		<b>Supplemental Classification:</b>							
<b>Other Stream Classification:</b>									
<b>Impairments:</b>									
<b>Aquatic T&amp;E Species?</b>				<b>Comments:</b>					
<b>NRTR Stream ID:</b>		SL			<b>Buffer Rules in Effect:</b>		N/A		
<b>Project Includes Bridge Spanning Water Body?</b>		No		<b>Deck Drains Discharge Over Buffer?</b>		N/A		<b>Dissipator Pads Provided in Buffer?</b>	
<b>Deck Drains Discharge Over Water Body?</b>		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)		N/A	
(If yes, provide justification in the General Project Narrative)									
<b>Surface Water Body (4):</b>		Little River			<b>NCDWR Stream Index No.:</b>		13-25-(1)		
<b>NCDWR Surface Water Classification for Water Body</b>		<b>Primary Classification:</b>		Class C					
		<b>Supplemental Classification:</b>							
<b>Other Stream Classification:</b>									
<b>Impairments:</b>									
<b>Aquatic T&amp;E Species?</b>				<b>Comments:</b>					
<b>NRTR Stream ID:</b>		Little River			<b>Buffer Rules in Effect:</b>		N/A		
<b>Project Includes Bridge Spanning Water Body?</b>		No		<b>Deck Drains Discharge Over Buffer?</b>		No		<b>Dissipator Pads Provided in Buffer?</b>	
<b>Deck Drains Discharge Over Water Body?</b>		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)		N/A	
(If yes, provide justification in the General Project Narrative)									
<b>Surface Water Body (5):</b>					<b>NCDWR Stream Index No.:</b>				
<b>NCDWR Surface Water Classification for Water Body</b>		<b>Primary Classification:</b>							
		<b>Supplemental Classification:</b>							
<b>Other Stream Classification:</b>									
<b>Impairments:</b>									
<b>Aquatic T&amp;E Species?</b>				<b>Comments:</b>					
<b>NRTR Stream ID:</b>					<b>Buffer Rules in Effect:</b>		N/A		
<b>Project Includes Bridge Spanning Water Body?</b>				<b>Deck Drains Discharge Over Buffer?</b>				<b>Dissipator Pads Provided in Buffer?</b>	
<b>Deck Drains Discharge Over Water Body?</b>				(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)									



(Version 2.08; Released April 2018)

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



WBS Element: 44385.1.3    TIP No.: U-5813    County(ies): Randolph    Page 5 of 5

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	-L- 28+73 LT 35.694189, -79.856446	(11)UT to Cable Creek	4.0	2.0	2.0	13.3	1330	77	0.70%	23.2	2.6	29.5	2.8	No	No
6	-L- 40+46 LT 35.692608, -79.853007	(11)UT to Cable Creek	0.0	2.0	2.0	0.4	40	58	0.98%	1.1	1.4	1.4	1.5	No	No
6	-L- 43+50 LT 35.692232, -79.852098	(1)UT to Cedar Fork	0.0	2.0	3.0	0.7	70	246	0.93%	1.7	1.6	2.2	1.7	No	No
7	-L- 46+52 RT 35.691511, -79.851399	(1)UT to Cedar Fork	0.0	6.0	6.0	1.3	130	52	2.04%	3.4	1.9	4.3	2.1	No	No
7	-L- 56+30 RT 35.690216, -79.848509	(3)UT to Cedar Fork Creek	2.0	3.0	3.0	0.4	35	75	4.00%	1.2	2.0	1.5	2.2	No	No
10	-L- 83+29 RT 35.687599, -79.839952		0.0	4.0	2.0	3.0	300	496	0.50%	4.7	1.5	6.0	1.5	No	No
10	-L- 91+60 LT 35.686411, -79.837606		2.0	4.0	2.0	6.8	679	333	1.18%	7.7	2.2	10.2	2.4	No	No
11	-L- 103+00 LT 35.685545, -79.833907		0.0	2.0	2.0	3.0	297	215	2.66%	5.0	2.8	6.4	2.9	No	No
12	-L- 109+79 LT 35.685640, -79.831761		2.0	3.0	2.0	5.7	566	432	1.07%	4.1	1.9	5.2	2.0	No	No
13	-L- 121+25 LT 35.686725, -79.828179		0.0	3.0	2.0	0.1	12	210	0.74%	0.2	0.8	0.3	0.9	No	No
6	-Y1- 12+25 LT 35.693053, -79.853874		0.0	2.0	2.0	0.2	20	288	2.00%	0.7	1.9	0.7	1.6	No	No
9	-Y8- 13+00 RT 35.688619, -79.842595	(4)UT to Cedar Fork	0.0	2.0	2.0	0.7	70	250	3.50%	1.8	2.6	2.3	2.7	No	No
11	-Y19- 10+00 LT 35.685700, -79.833761	(6)UT to Cedar Fork	0.0	3.0	2.0	1.1	114	125	1.66%	1.8	1.9	2.3	2.0	No	No
12	-RPA- 16+00 LT 35.688767, -79.830458	(5)UT to Cedar Fork	0.0	6.0	2.0	0.5	50	100	1.60%	1.1	1.5	1.4	1.6	No	No
12	-RPD- 13+50 LT 35.684235, -79.829220	(7)UT to Little River	2.0	2.0	4.0	0.3	25	100	3.05%	0.5	1.4	0.6	1.5	No	No
12	-Y- 29+50 LT 35.686660, -79.833825	(6)UT to Cedar Fork	0.0	4.0	4.0	1.2	122	300	4.00%	2.9	2.4	2.4	1.4	No	No

Additional Comments

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**RANDOLPH COUNTY**

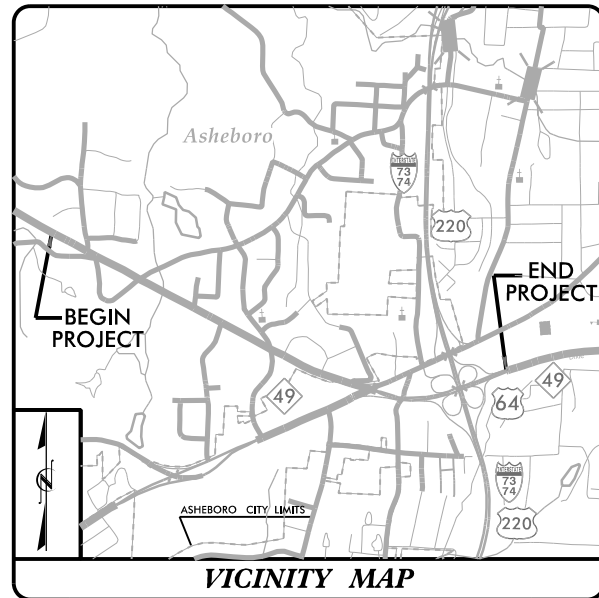
LOCATION: US 64 FROM ASHEBORO BYPASS TO EAST OF I-73/1-74/US 220 TO ASHEBORO

TYPE OF WORK: GRADING, DRAINAGE, PAVING, STRUCTURES, CULVERT & SIGNALS

**WETLAND AND SURFACE WATER IMPACTS PERMIT**

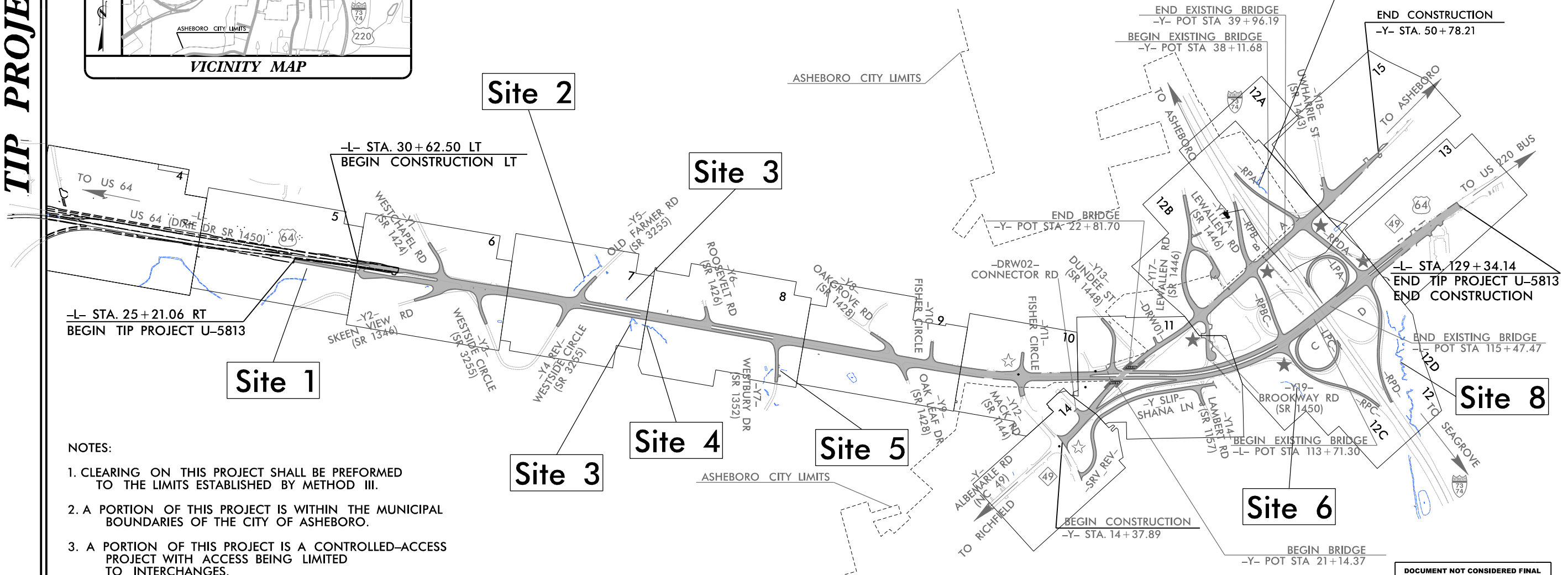
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-5813	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
44385.1.3	NHP-0095(045)	PE	
44385.2.3	NHP-0095(045)	R/W /UTILITIES	
44385.3.2	NHP-0095(045)	CONSTRUCTION	

**PERMIT DRAWING SHEET 1 OF 19**



**TIP PROJECT: U-5813**

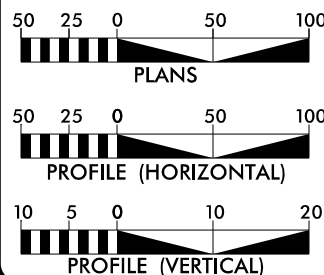
**CONTRACT:**



**NOTES:**

1. CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.
2. A PORTION OF THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF THE CITY OF ASHEBORO.
3. A PORTION OF THIS PROJECT IS A CONTROLLED-ACCESS PROJECT WITH ACCESS BEING LIMITED TO INTERCHANGES.

**GRAPHIC SCALES**



**DESIGN DATA**

ADT 2020 = 32,200  
ADT 2040 = 35,700  
K = 8%  
D = 55%  
T = 4% \*  
V = 60 MPH / 50 MPH (C&G)  
\* TTST = 3% DUAL 1%  
FUNC CLASS = PRINCIPAL ARTERIAL STATEWIDE TIER

**PROJECT LENGTH**

LENGTH ROADWAY TIP PROJECT U-5813 = 1.972 MILES  
TOTAL LENGTH TIP PROJECT U-5813 = 1.972 MILES  
TOTAL LENGTH BASED ON -L- CENTERLINE AND RIGHT SIDE BEGIN CONSTRUCTION

PREPARED IN THE OFFICE OF:  
**HNTB**  
HNTB NORTH CAROLINA, P.C.  
343 E. Six Forks Road, Suite 200  
Raleigh, North Carolina 27609  
NC License No: C-1554  
FOR NCDOT

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:  
JANUARY 15, 2021

LETTING DATE:  
SEPTEMBER 20, 2022

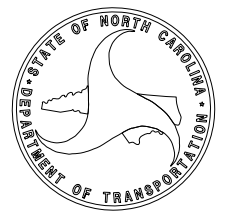
**G. JOHN HORNBECK, PE**  
PROJECT ENGINEER  
**ROY H. TELLIER, PE**  
PROJECT DESIGN ENGINEER  
**MELANIE NGUYEN, PE**  
NCDOT CONTACT

**HYDRAULICS ENGINEER**

SIGNATURE: \_\_\_\_\_ P.E.

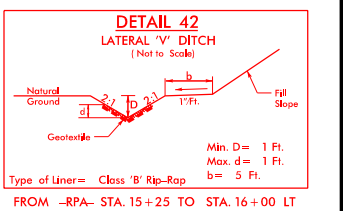
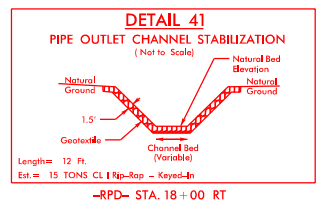
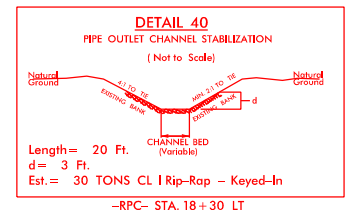
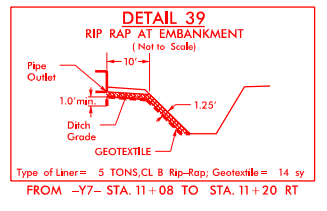
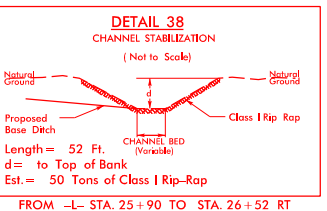
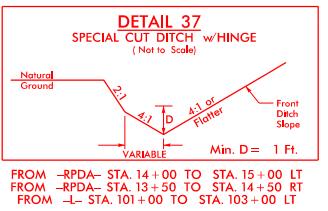
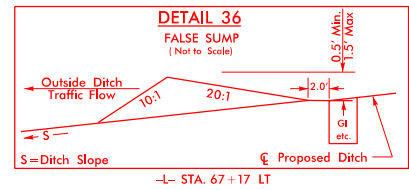
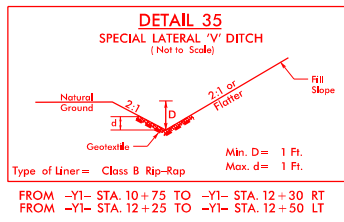
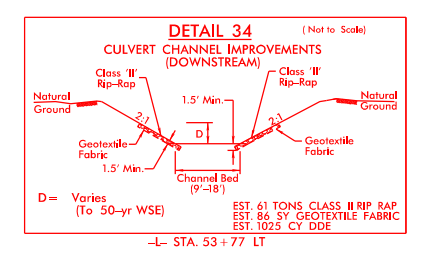
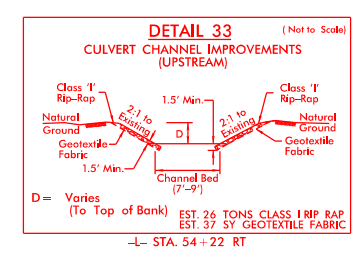
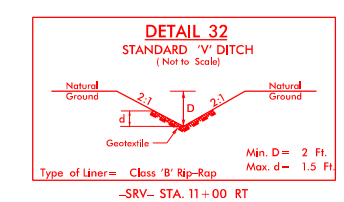
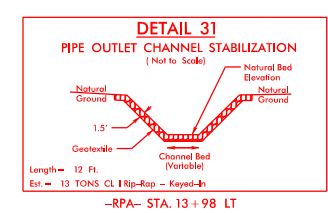
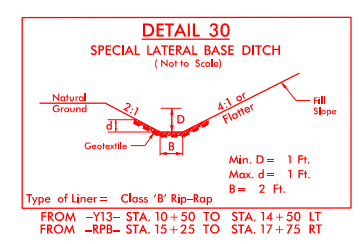
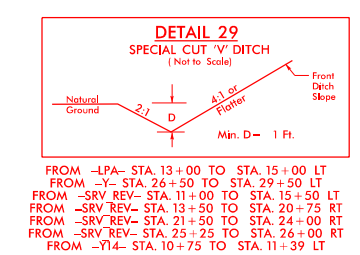
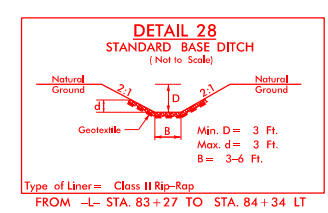
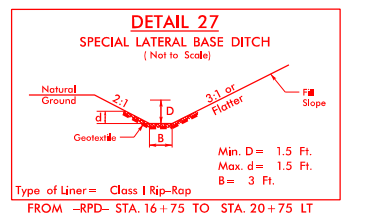
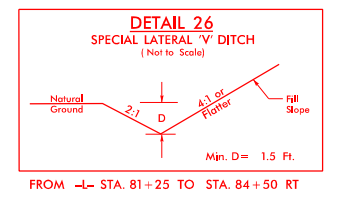
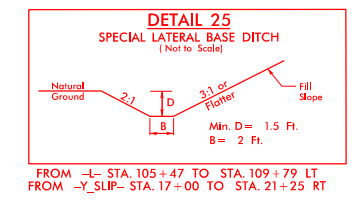
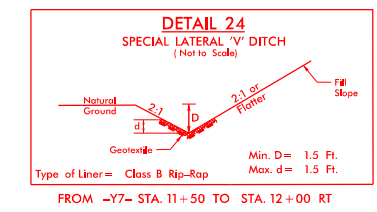
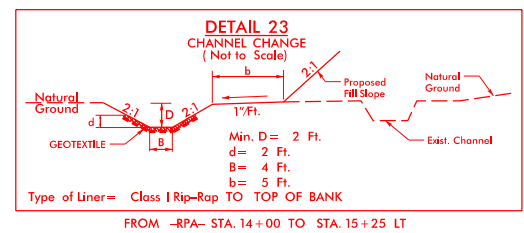
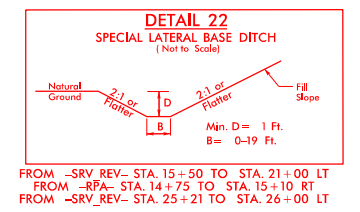
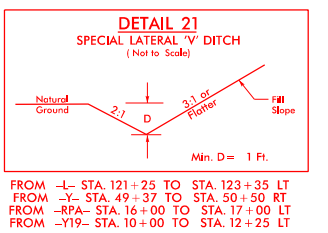
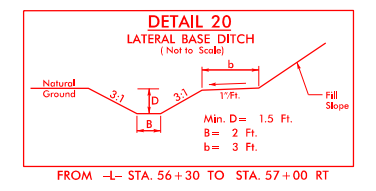
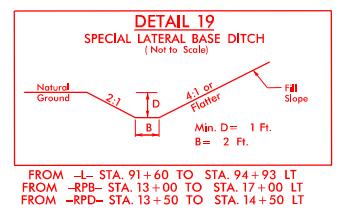
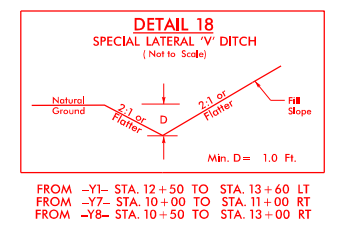
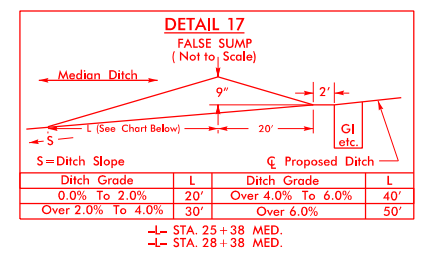
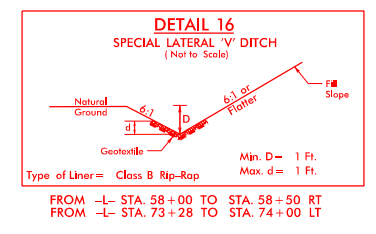
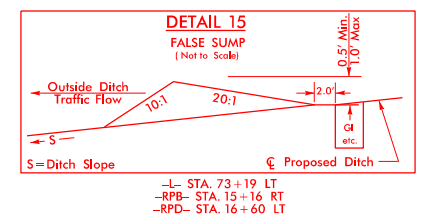
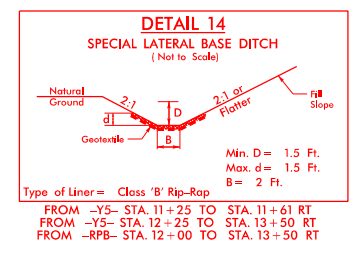
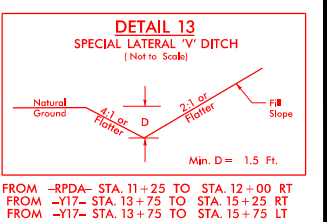
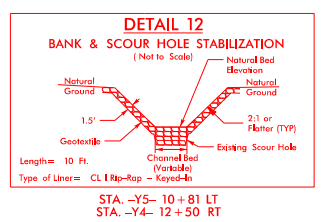
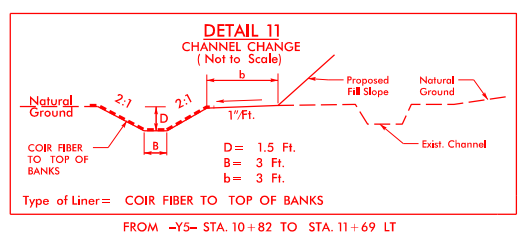
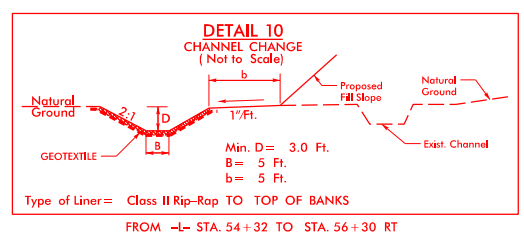
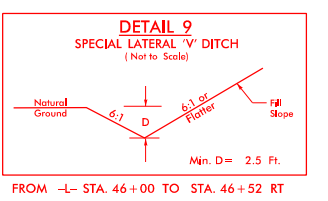
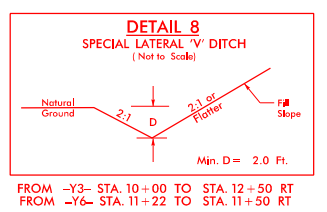
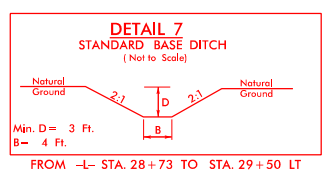
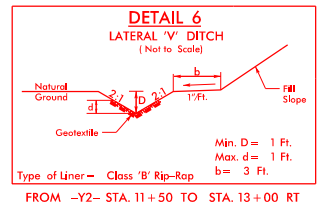
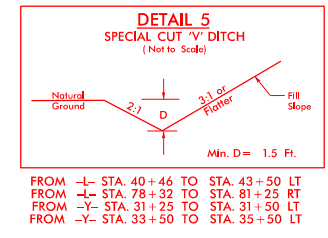
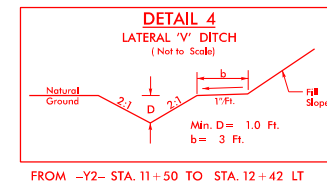
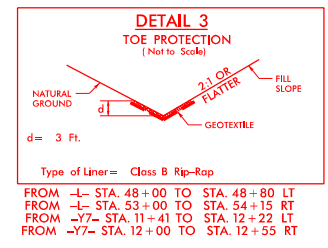
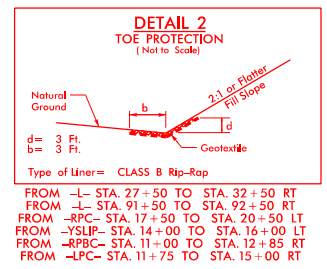
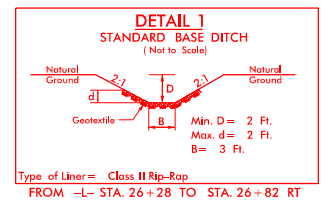
**ROADWAY DESIGN ENGINEER**

SIGNATURE: \_\_\_\_\_ P.E.



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

U-5813 PROPOSED DITCH TYPICALS



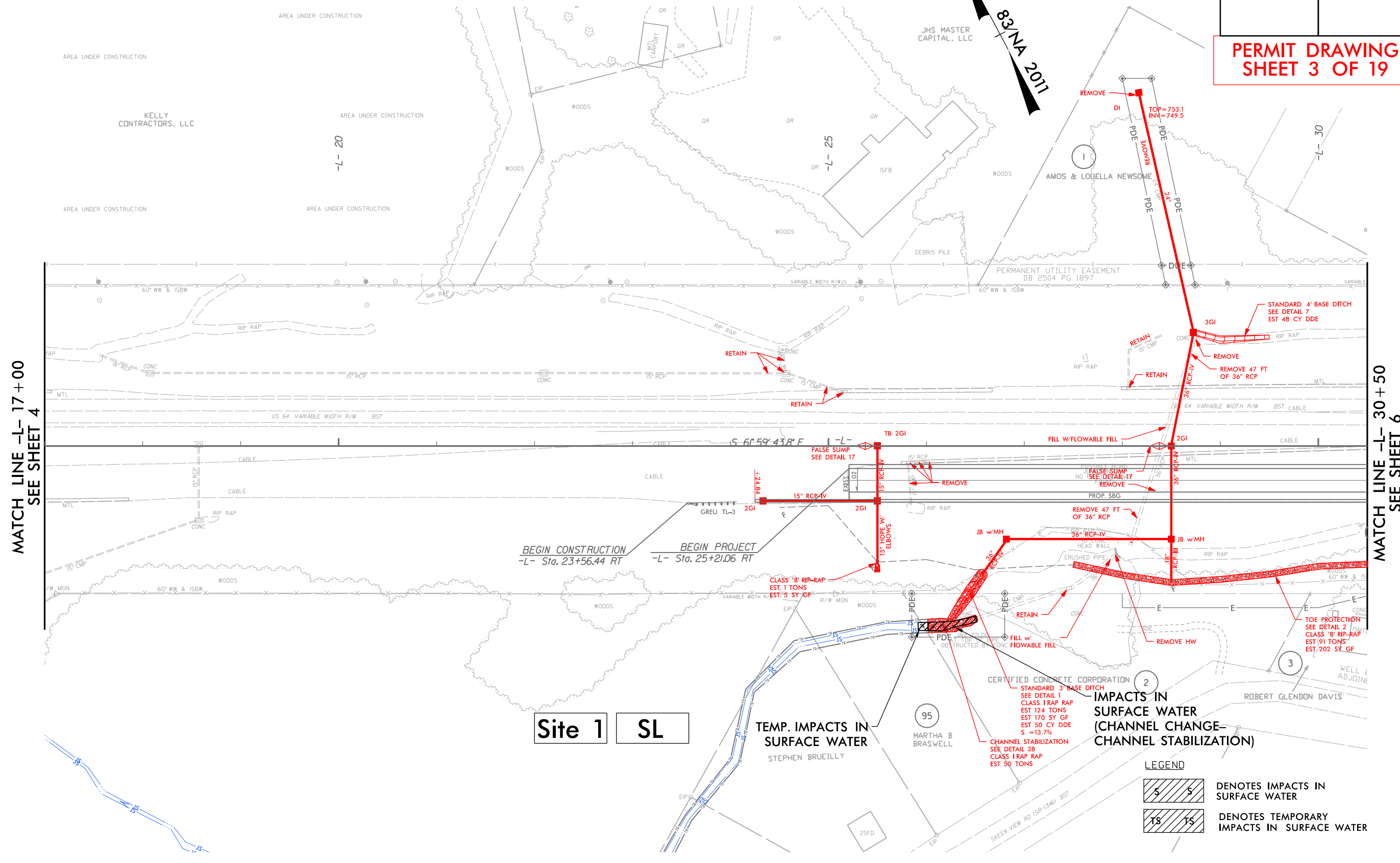
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PROJECT REFERENCE NO.	SHEET NO.
U-5813	5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

**PERMIT DRAWING SHEET 3 OF 19**

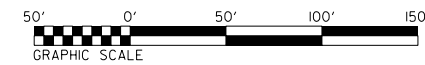
# WETLAND & STREAM IMPACTS

NAD 83/NA 2011



**LEGEND**

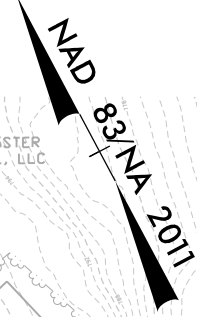
	DENOTES IMPACTS IN SURFACE WATER
	DENOTES TEMPORARY IMPACTS IN SURFACE WATER



8/17/99  
10/1/2020  
10/1/2020  
HYD\_PRM\_PSH\_05.dgn  
HNTB

PROJECT REFERENCE NO. <b>U-5813</b>	SHEET NO. <b>5</b>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

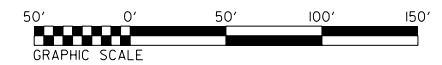
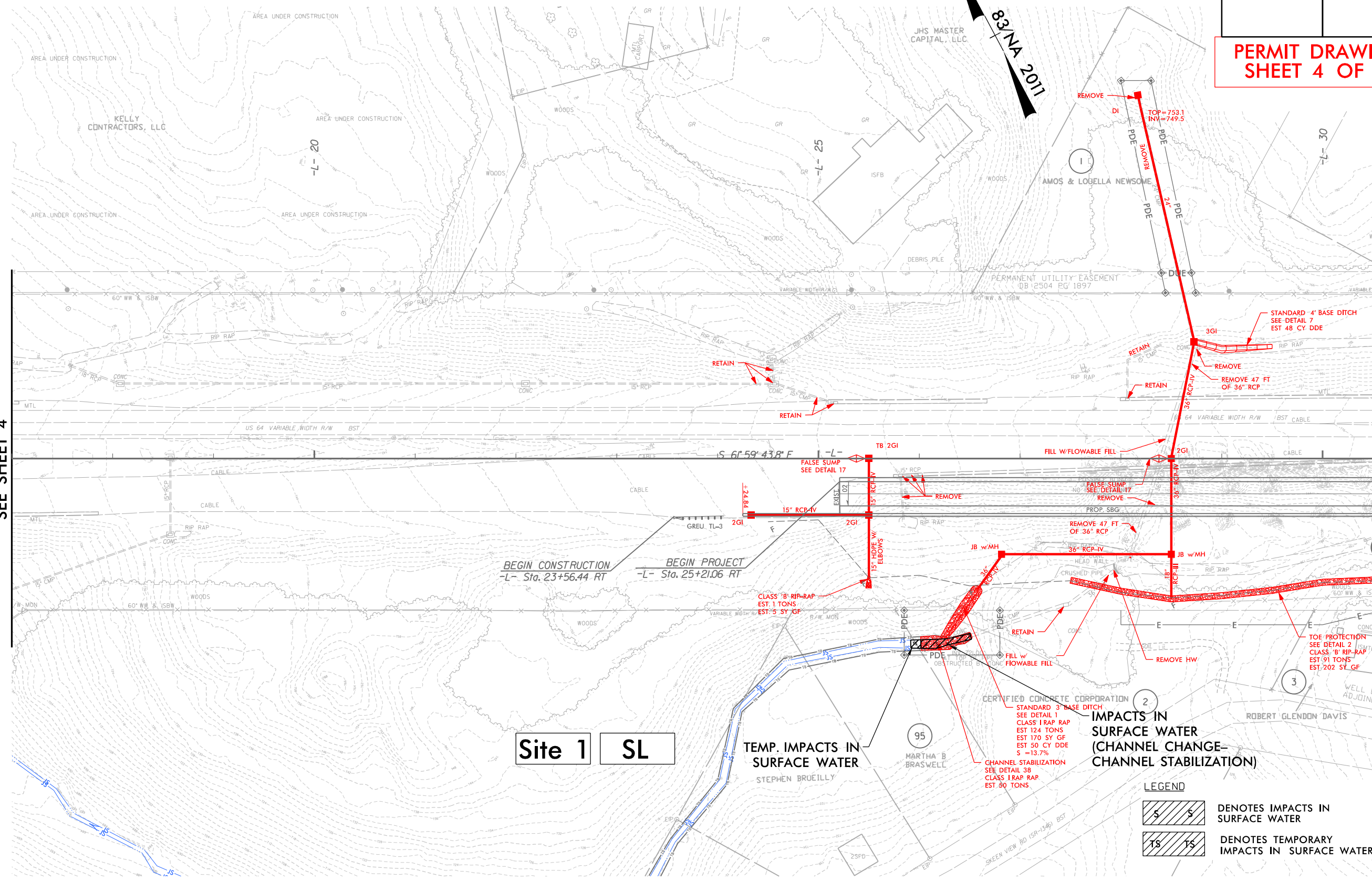
# WETLAND & STREAM IMPACTS



**PERMIT DRAWING SHEET 4 OF 19**

MATCH LINE -L- 17+00  
SEE SHEET 4

MATCH LINE -L- 30+50  
SEE SHEET 6



**LEGEND**

	DENOTES IMPACTS IN SURFACE WATER
	DENOTES TEMPORARY IMPACTS IN SURFACE WATER

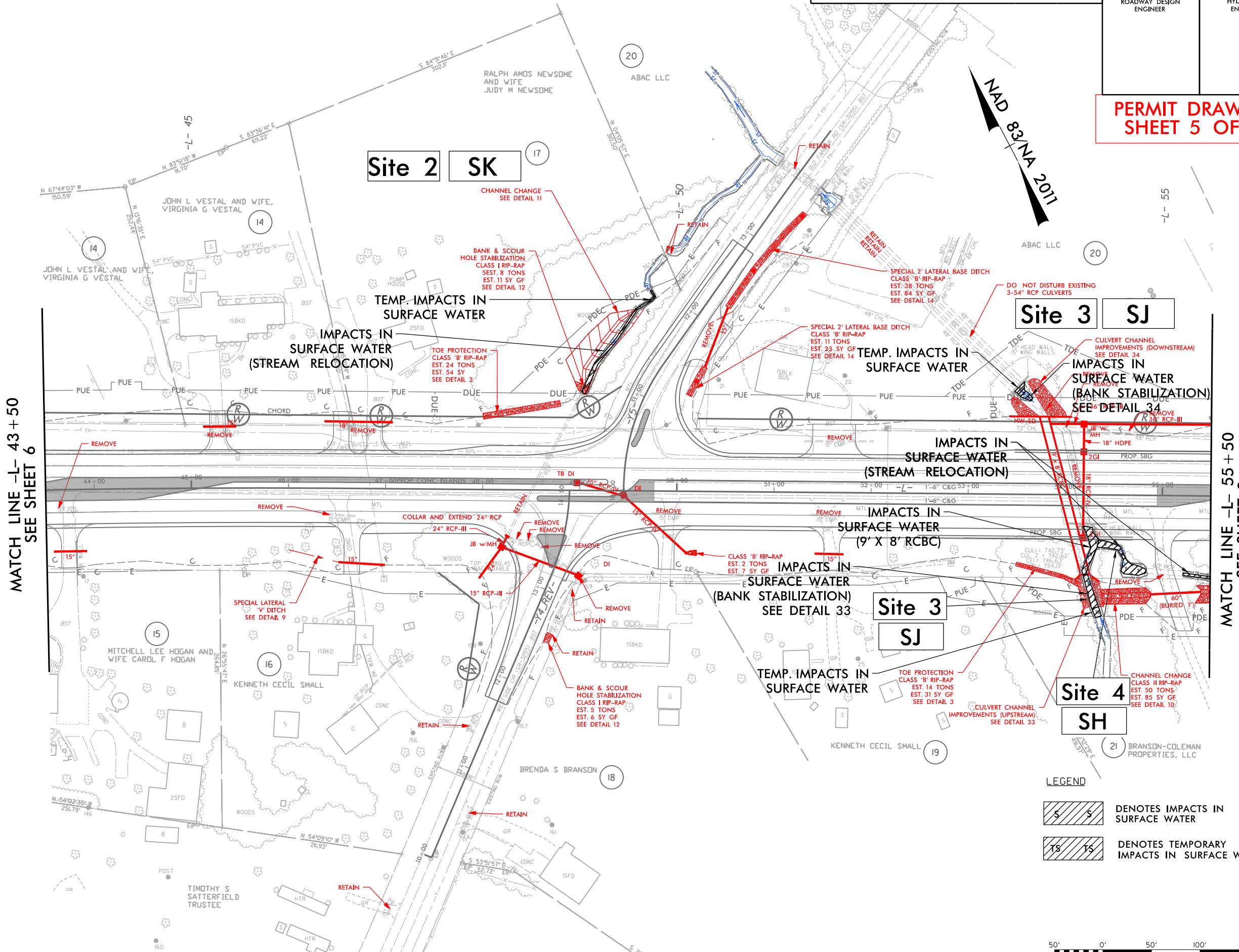
8/17/99  
10/1/2020  
10/1/2020  
HYD\_PRM\_PSH\_05.dgn  
HNTB

# WETLAND & STREAM IMPACTS

**HNTB** HNTB NORTH CAROLINA, P.C.  
343 E. Six Forks Road, Suite 200  
Raleigh, North Carolina 27609  
NC License No: C-1554

PROJECT REFERENCE NO.	SHEET NO.
U-5813	7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

**PERMIT DRAWING SHEET 5 OF 19**



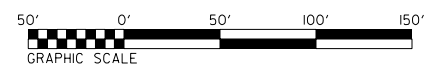
MATCH LINE -L- 43 + 50  
SEE SHEET 6

MATCH LINE -L- 55 + 50  
SEE SHEET 8

**LEGEND**

DENOTES IMPACTS IN SURFACE WATER

DENOTES TEMPORARY IMPACTS IN SURFACE WATER



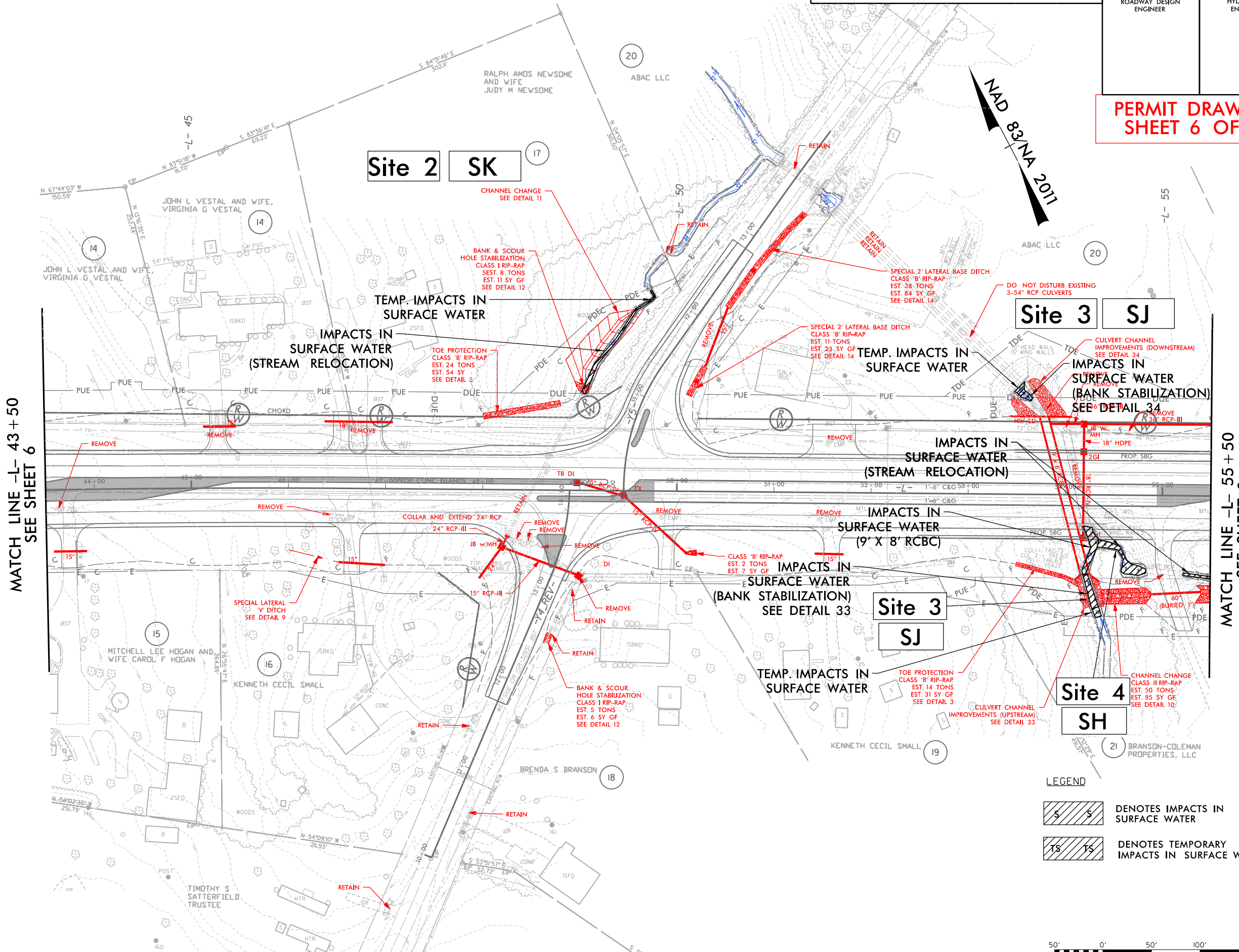
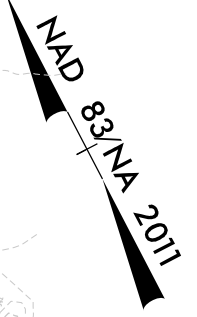
8/17/99  
10/6/2020  
10/6/2020  
HYD\_PRM\_PSH\_07.dgn  
HNTB

# WETLAND & STREAM IMPACTS

**HNTB** HNTB NORTH CAROLINA, P.C.  
343 E. Six Forks Road, Suite 200  
Raleigh, North Carolina 27609  
NC License No: C-1554

PROJECT REFERENCE NO.	SHEET NO.
U-5813	7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

**PERMIT DRAWING SHEET 6 OF 19**

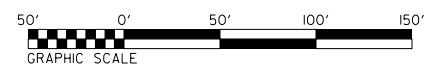


MATCH LINE -L- 43 + 50  
SEE SHEET 6

MATCH LINE -L- 55 + 50  
SEE SHEET 8

**LEGEND**

	DENOTES IMPACTS IN SURFACE WATER
	DENOTES TEMPORARY IMPACTS IN SURFACE WATER

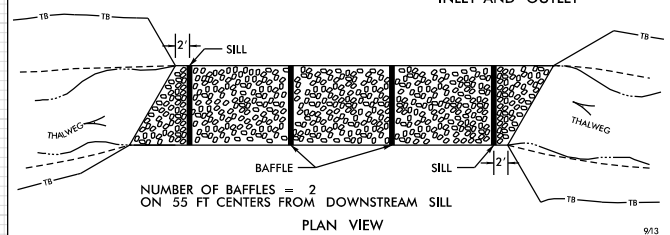
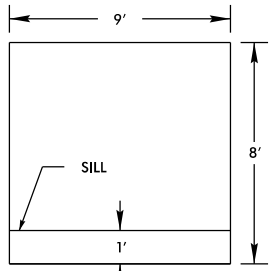


8/17/99  
10/6/2020  
10/6/2020  
HYD\_PRM\_PSH\_07.dgn  
HNTB

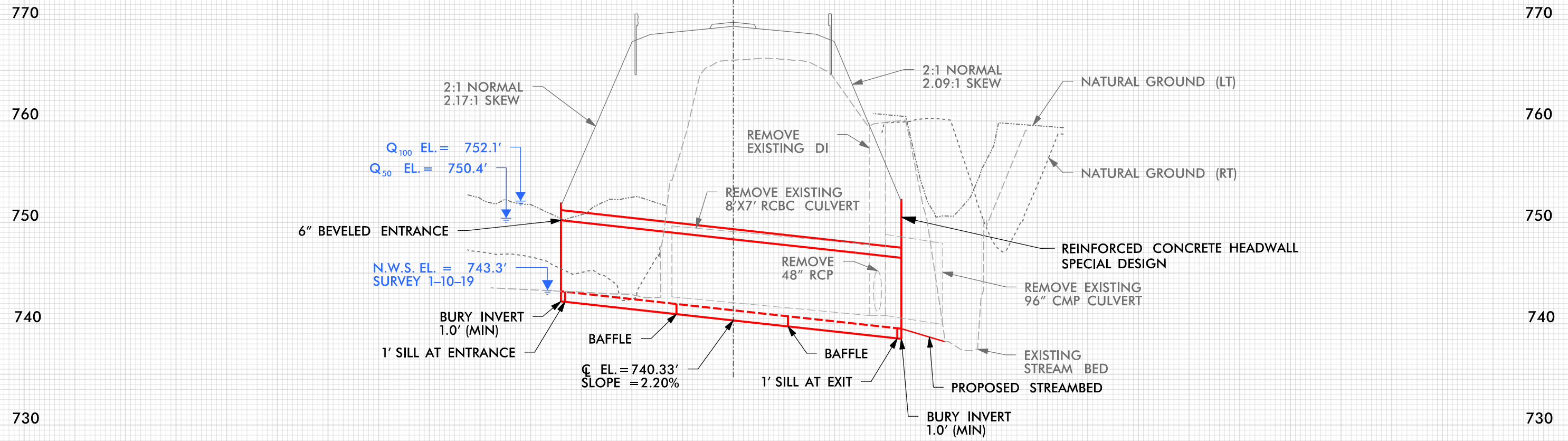
(-) 150 (-) 100 (-) 50 0 50 100 150

DETAIL C1 (NOT TO SCALE) SINGLE BARREL CULVERT SKEWED LOW FLOW CHANNEL AND SILLS

- \*NOTES:
- 1) NATIVE MATERIAL BETWEEN SILLS/BAFFLES IN THE CULVERT SHALL PROVIDE A CONTINUOUS LOW FLOW CHANNEL. NATIVE MATERIAL CONSISTS OF MATERIAL THAT IS EXCAVATED FROM THE STREAM BED AT THE PROJECT SITE DURING CONSTRUCTION. NATIVE MATERIAL IS SUBJECT TO APPROVAL BY THE ENGINEER AND MAY BE SUBJECT TO PERMIT CONDITIONS.
- 2) SILLS/BAFFLES ARE TO BE 1.0 FT. WIDE, CAST SEPARATELY AND ATTACHED BY DOWELS.
- 3) TOP OF LOW FLOW SILLS/BAFFLES SHOULD MATCH STREAM BED ELEVATION IN LOW FLOW CHANNEL OF STREAM. (THALWEG)
- 4) DO NOT SET ELEVATION OF HIGH SILLS/BAFFLES ABOVE BANK FULL.
- 5) NUMBER OF SILLS/BAFFLES DETERMINED BY THE ENGINEER.



Site 3



RANDOLPH COUNTY  
 PROJECT: U-5813  
 US-64  
 FROM ASHEBORO BYPASS TO  
 EAST OF I-73/I-74/US 220

6/23/16  
9/29/2020  
U-5813-HYD-PRM-PSH\_07\_PFL.dgn

(-) 150    (-) 100    (-) 50    0    50    100    150

# Site 4

770

770

760

760

750

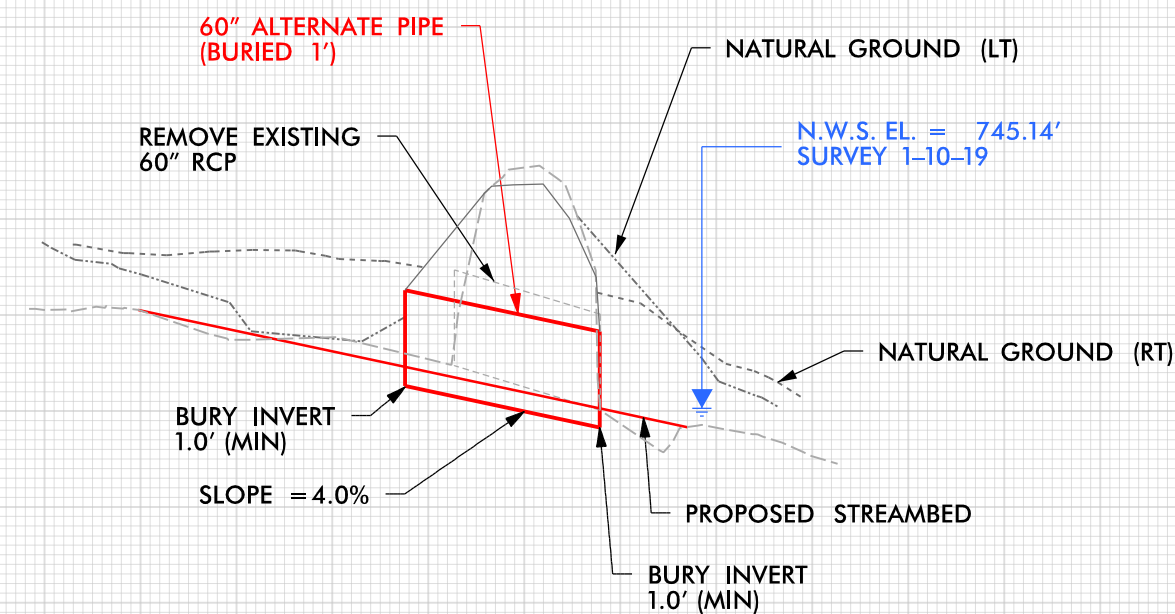
750

740

740

730

730



RANDOLPH COUNTY  
 PROJECT: U-5813  
 US-64  
 FROM ASHEBORO BYPASS TO  
 EAST OF I-73/I-74/US 220

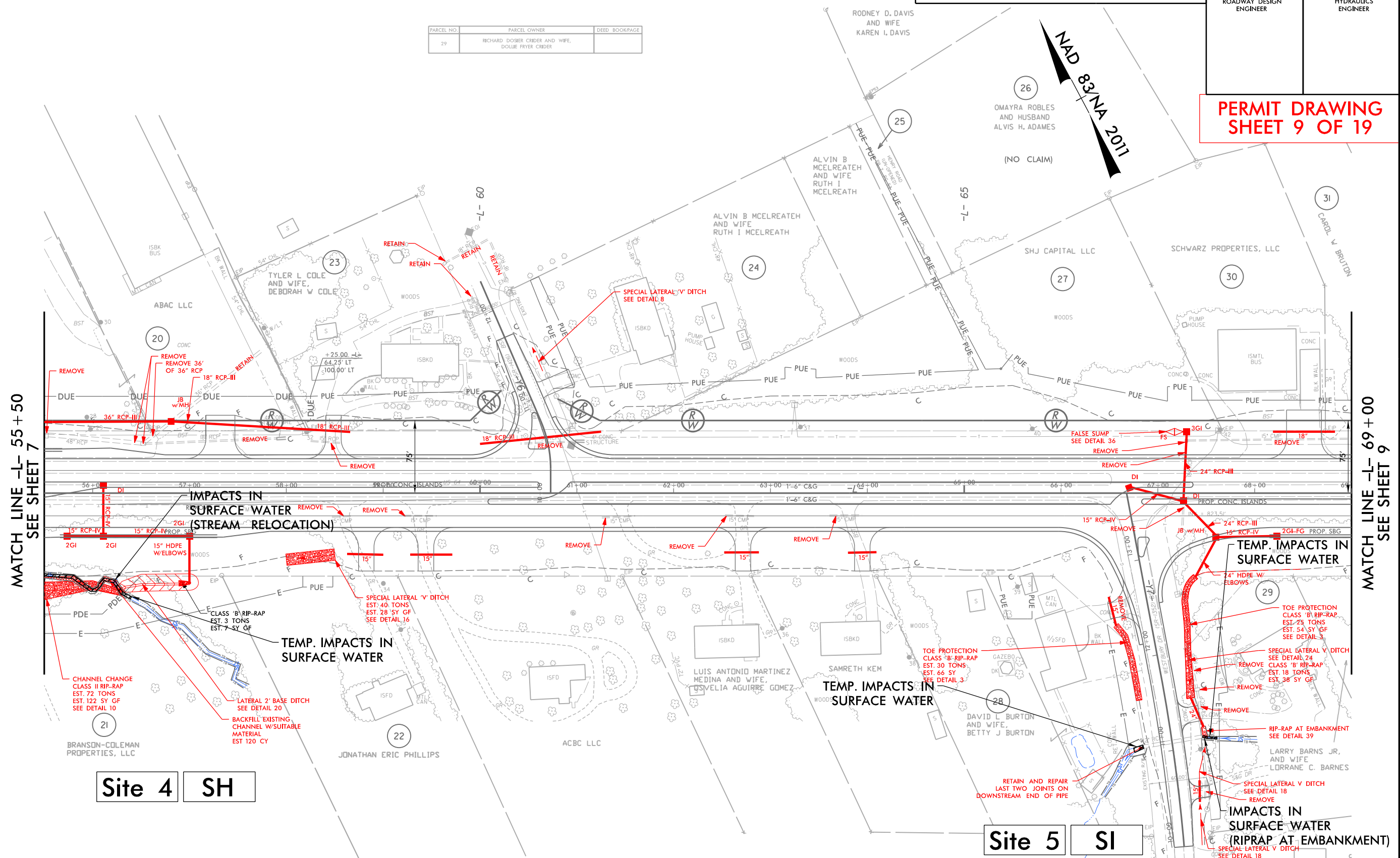
# WETLAND & STREAM IMPACTS

**HNTB** HNTB NORTH CAROLINA, P.C.  
343 E. Six Forks Road, Suite 200  
Raleigh, North Carolina 27609  
NC License No: C-1554

PROJECT REFERENCE NO.	SHEET NO.
U-5813	8
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

**PERMIT DRAWING SHEET 9 OF 19**

PARCEL NO.	PARCEL OWNER	DEED BOOK/PAGE
29	RICHARD DOSER CRIDER AND WIFE, DOLLIE FRYER CRIDER	



MATCH LINE -L- 55+50  
SEE SHEET 7

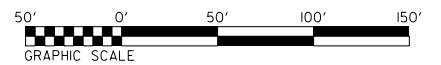
MATCH LINE -L- 69+00  
SEE SHEET 9

Site 4 SH

Site 5 SI

### LEGEND

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



8/17/99  
11/20/2020  
11/20/2020  
HYD\_PSH\_06.dgn  
HNTB

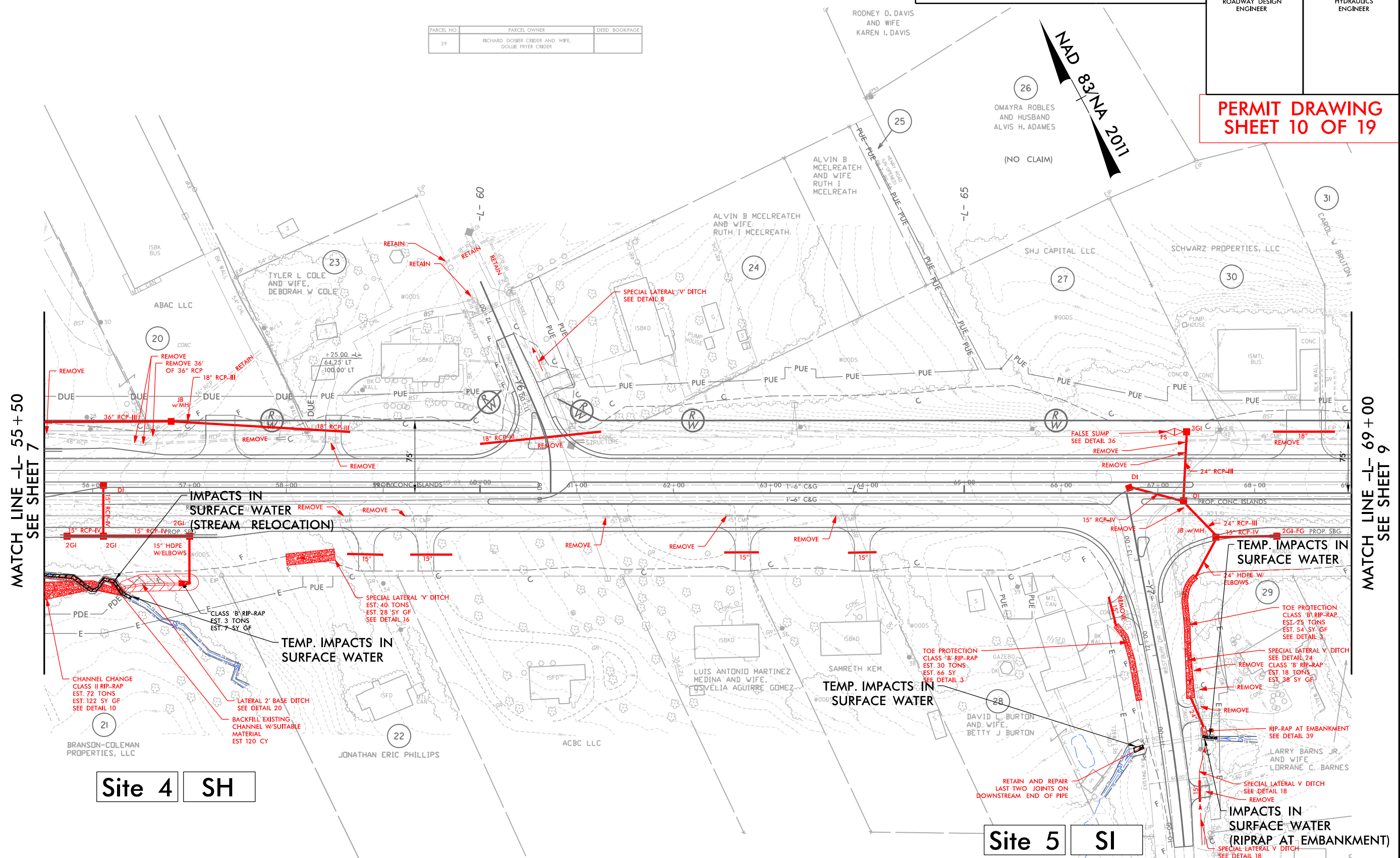
# WETLAND & STREAM IMPACTS

**HNTB** HNTB NORTH CAROLINA, P.C.  
343 E. Six Forks Road, Suite 200  
Raleigh, North Carolina 27609  
NC License No: C-1554

PROJECT REFERENCE NO.	SHEET NO.
U-5813	8
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

**PERMIT DRAWING SHEET 10 OF 19**

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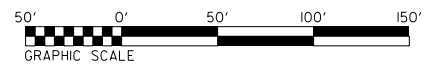


MATCH LINE -L- 55+50  
SEE SHEET 7

MATCH LINE -L- 69+00  
SEE SHEET 9

### LEGEND

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



8/17/99  
11/20/2020  
11/20/2020 HYD\_PSH\_06.dgn  
HNTB

# WETLAND & STREAM IMPACTS

**HNTB** HNTB NORTH CAROLINA, P.C.  
 2424 E. 514 FIFTH ROAD, SUITE 200  
 WILMINGTON, NORTH CAROLINA 27609  
 PROJECT REFERENCE NO. L-5813 SHEET NO. 12  
 ENGINEER REGISTERED PROFESSIONAL ENGINEER

NAD 83/NA 2011

PERMIT DRAWING SHEET 11 OF 19

DETAIL SHEET FOR SITE 7  
SHEET 15 OF 19

MATCH LINE -Y- 44+00  
SEE SHEET 15

MATCH LINE -L- 120+50  
SEE SHEET 13

DETAIL SHEET FOR SITE 8  
SHEET 17 OF 19

IMPACTS IN SURFACE WATER  
(36" RCP-IV)

TEMP. IMPACTS IN SURFACE WATER

Site 8 SA

TEMP. IMPACTS IN SURFACE WATER

Site 7 SF

IMPACTS IN SURFACE WATER  
(18" HDPE)

IMPACTS IN SURFACE WATER  
(STREAM RELOCATION)

IMPACTS IN SURFACE WATER  
(36" HDPE)

TEMP. IMPACTS IN SURFACE WATER  
(OUTLET PROTECTION AND PIPE REMOVAL)

TEMP. IMPACTS IN SURFACE WATER

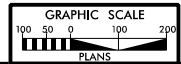
DETAIL SHEET FOR SITE 6  
SHEET 13 OF 19

Site 6 SE

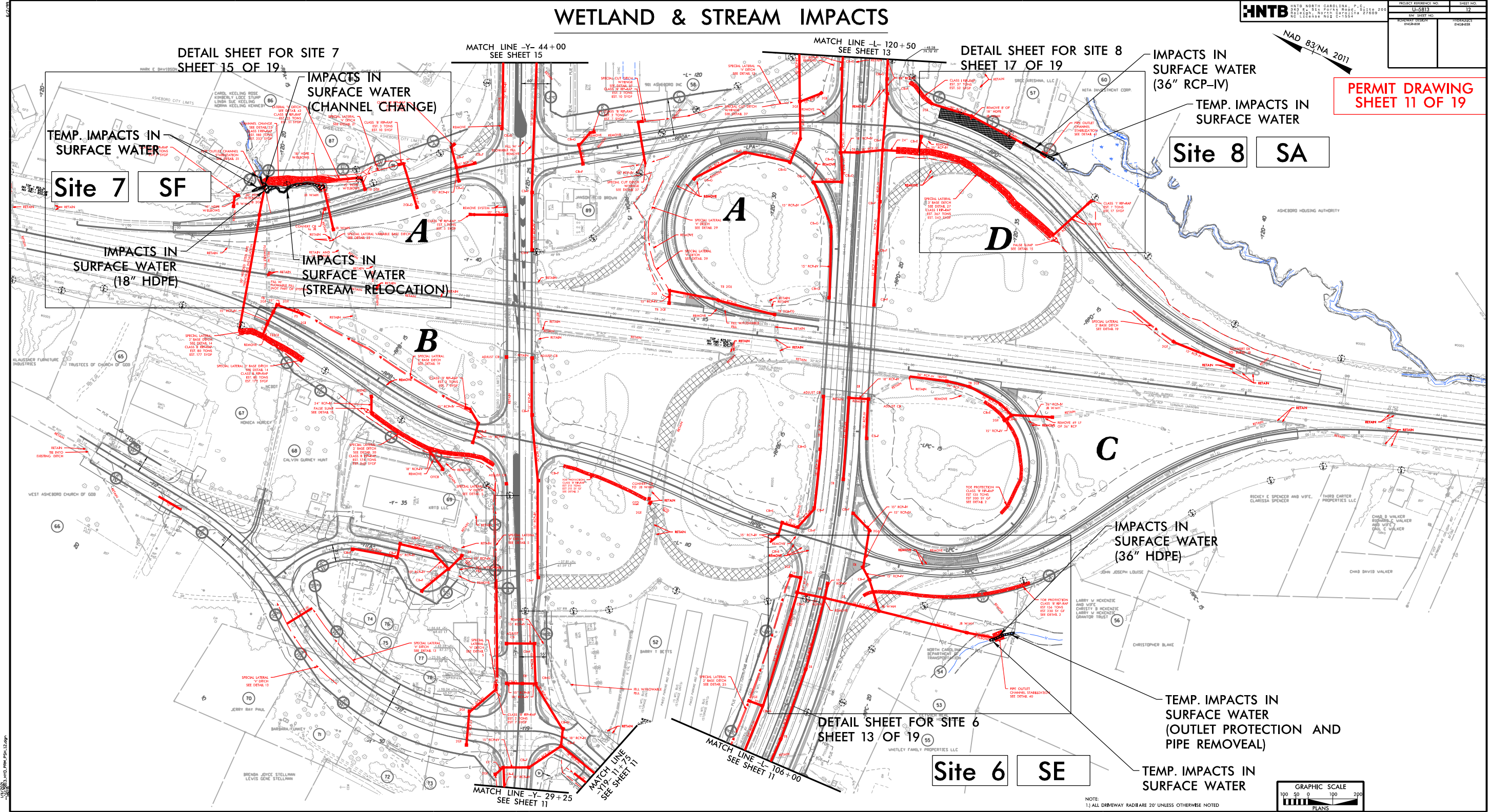
MATCH LINE -Y- 29+25  
SEE SHEET 11

MATCH LINE -Y- 79+75  
SEE SHEET 11

MATCH LINE -L- 106+00  
SEE SHEET 11



NOTE:  
1. ALL DRIVEWAY RADIARE 20' UNLESS OTHERWISE NOTED



# WETLAND & STREAM IMPACTS

**HNTB** HNTB NORTH CAROLINA, P.C.  
 2425 E. 51st STREET, SUITE 200  
 RALEIGH, NORTH CAROLINA 27609  
 PROJECT REFERENCE NO. L-5813 SHEET NO. 12  
 ENGINEER: [Signature] PROJECT ENGINEER: [Signature]

DETAIL SHEET FOR SITE 7  
SHEET 15 OF 19

DETAIL SHEET FOR SITE 8  
SHEET 17 OF 19

**PERMIT DRAWING  
SHEET 12 OF 19**

TEMP. IMPACTS IN  
SURFACE WATER  
**Site 7 SF**

IMPACTS IN  
SURFACE WATER  
(36" RCP-IV)  
TEMP. IMPACTS IN  
SURFACE WATER  
**Site 8 SA**

IMPACTS IN  
SURFACE WATER  
(18" HDPE)

IMPACTS IN  
SURFACE WATER  
(STREAM RELOCATION)

IMPACTS IN  
SURFACE WATER  
(36" HDPE)

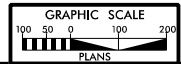
TEMP. IMPACTS IN  
SURFACE WATER  
(OUTLET PROTECTION AND  
PIPE REMOVAL)

TEMP. IMPACTS IN  
SURFACE WATER  
**Site 6 SE**

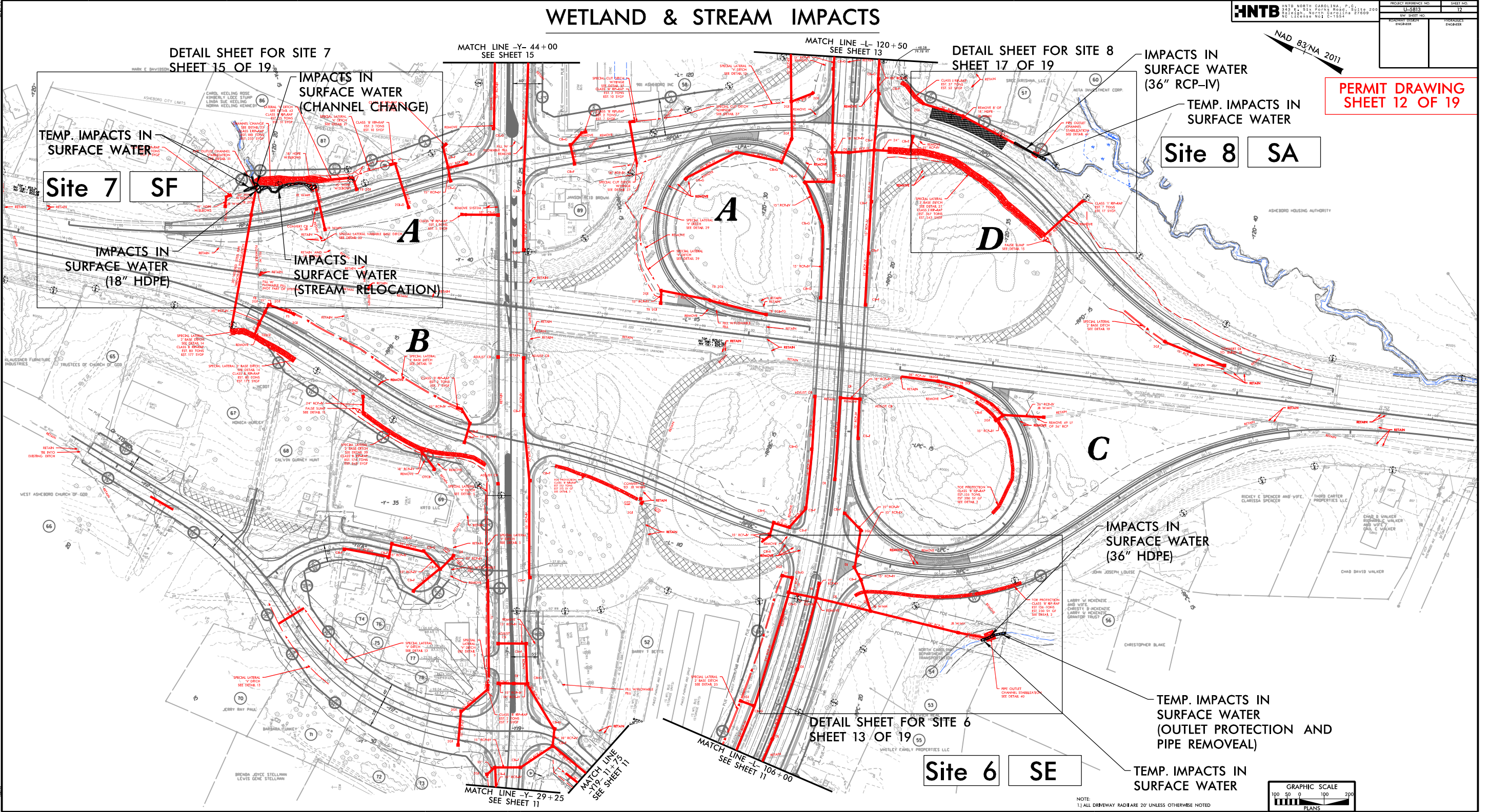
DETAIL SHEET FOR SITE 6  
SHEET 13 OF 19

MATCH LINE -Y- 29 + 25  
SEE SHEET 11

MATCH LINE -L- 106 + 00  
SEE SHEET 11



NOTE:  
1. ALL DRIVEWAY RADII ARE 20' UNLESS OTHERWISE NOTED

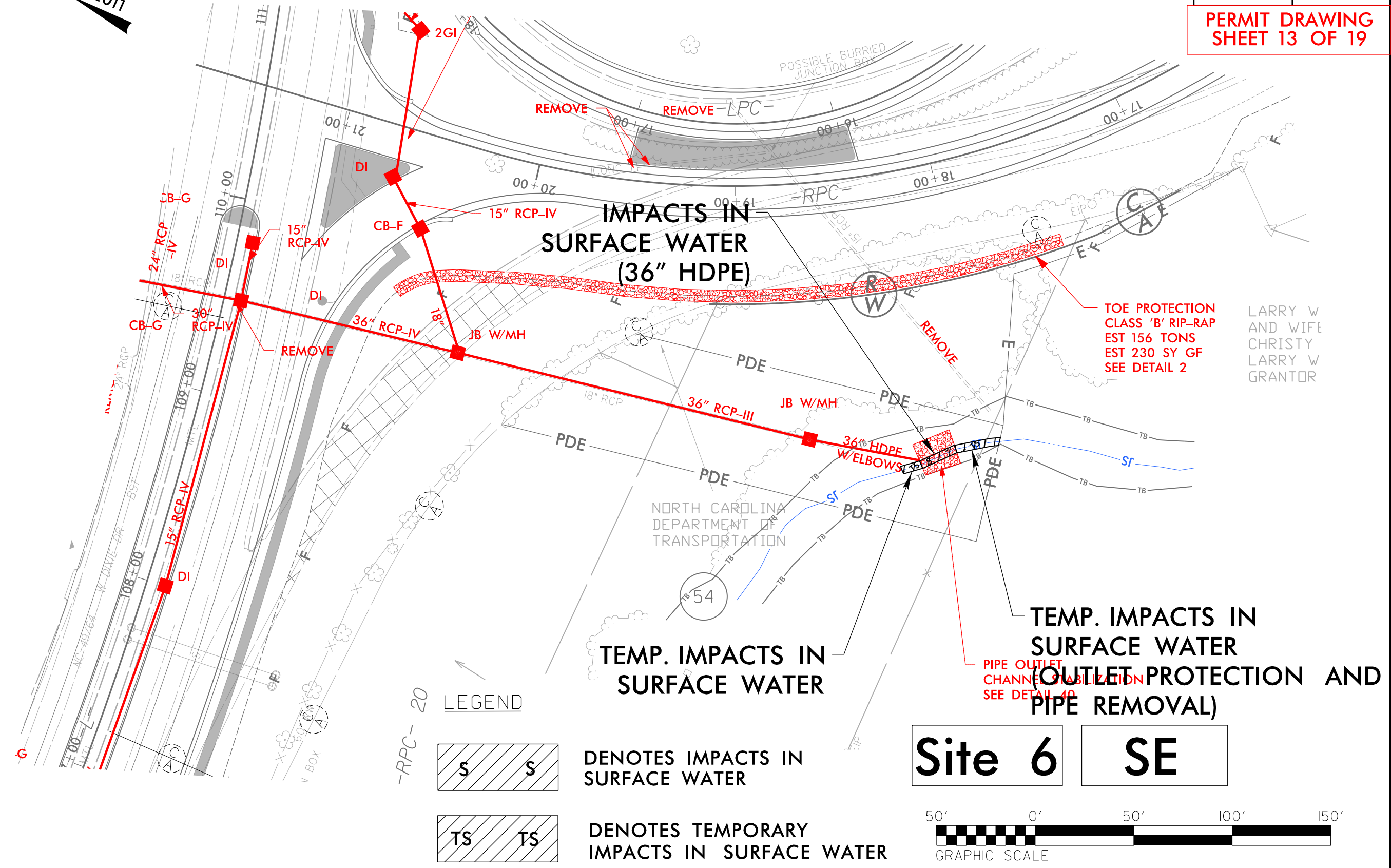


PROJECT REFERENCE NO. U-5813	SHEET NO. 12
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# WETLAND & STREAM IMPACTS

NAD 83/NA 2011

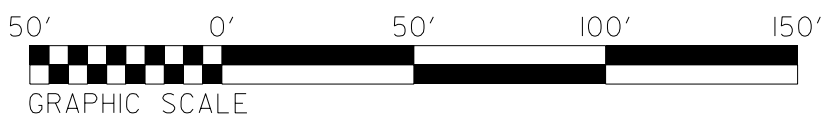
PERMIT DRAWING SHEET 13 OF 19



LARRY W AND WIFE CHRISTY LARRY W GRANTOR

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

Site 6 SE

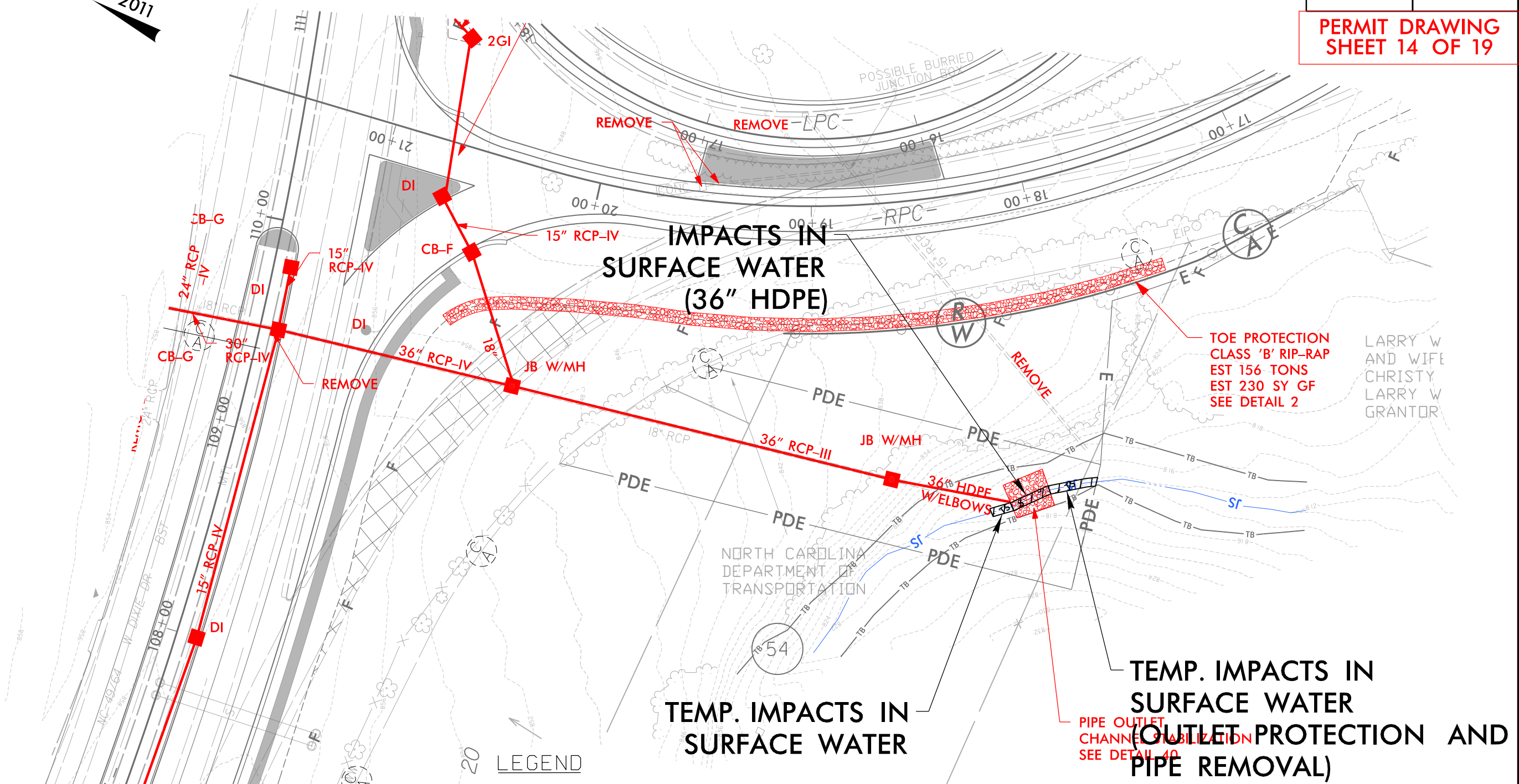


PROJECT REFERENCE NO. U-5813	SHEET NO. 12
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

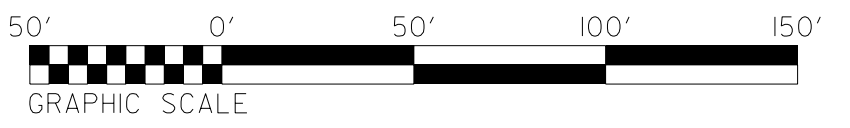
# WETLAND & STREAM IMPACTS

NAD 83/NA 2011

PERMIT DRAWING SHEET 14 OF 19



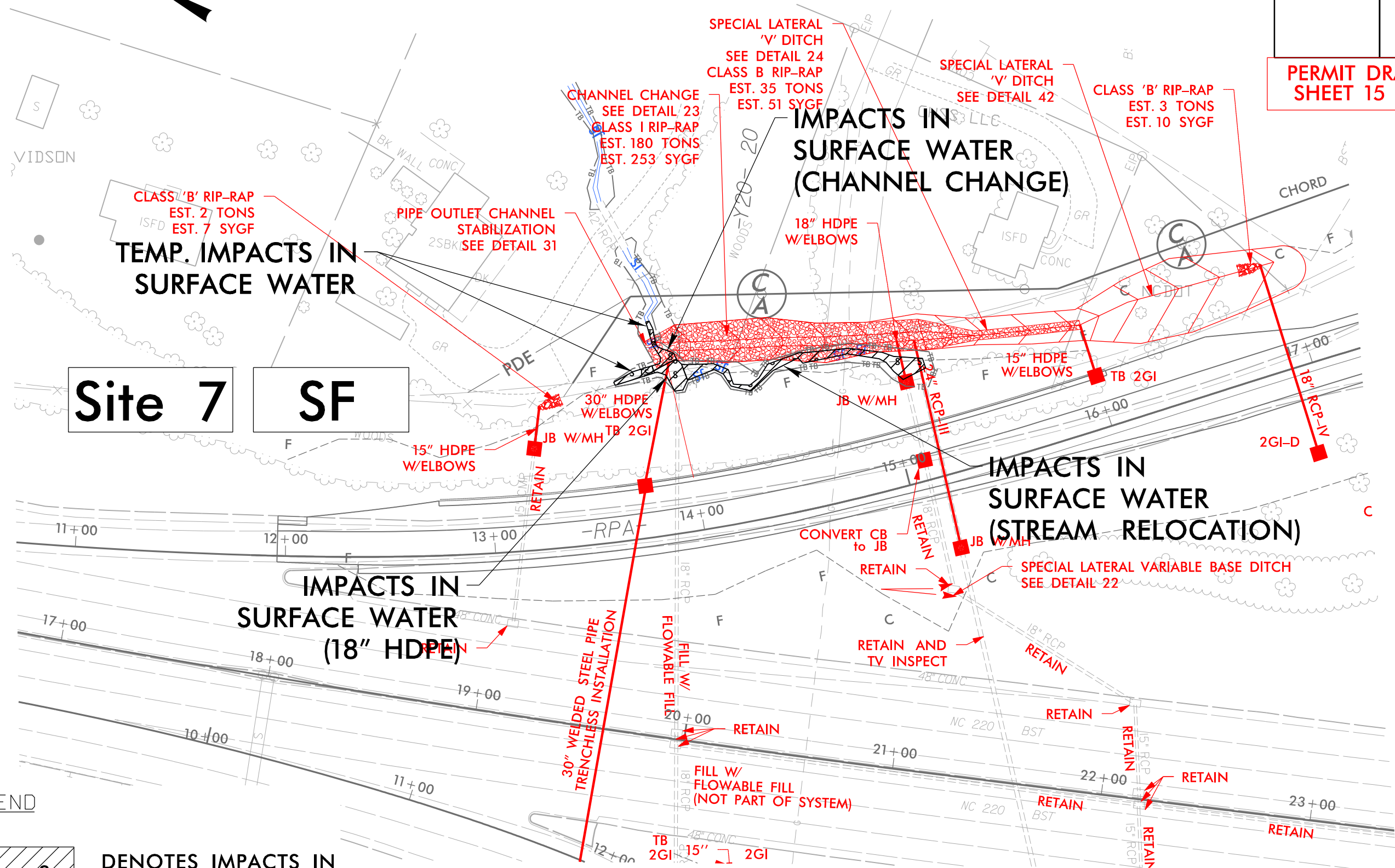
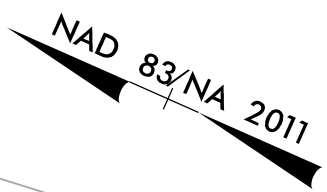
## Site 6 SE



PROJECT REFERENCE NO. U-5813	SHEET NO. 12
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER


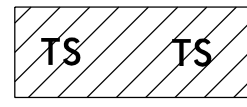
PERMIT DRAWING SHEET 15 OF 19

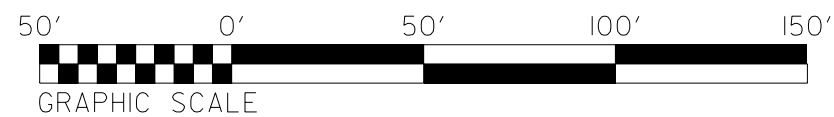
# WETLAND & STREAM IMPACTS



## Site 7 SF

### LEGEND

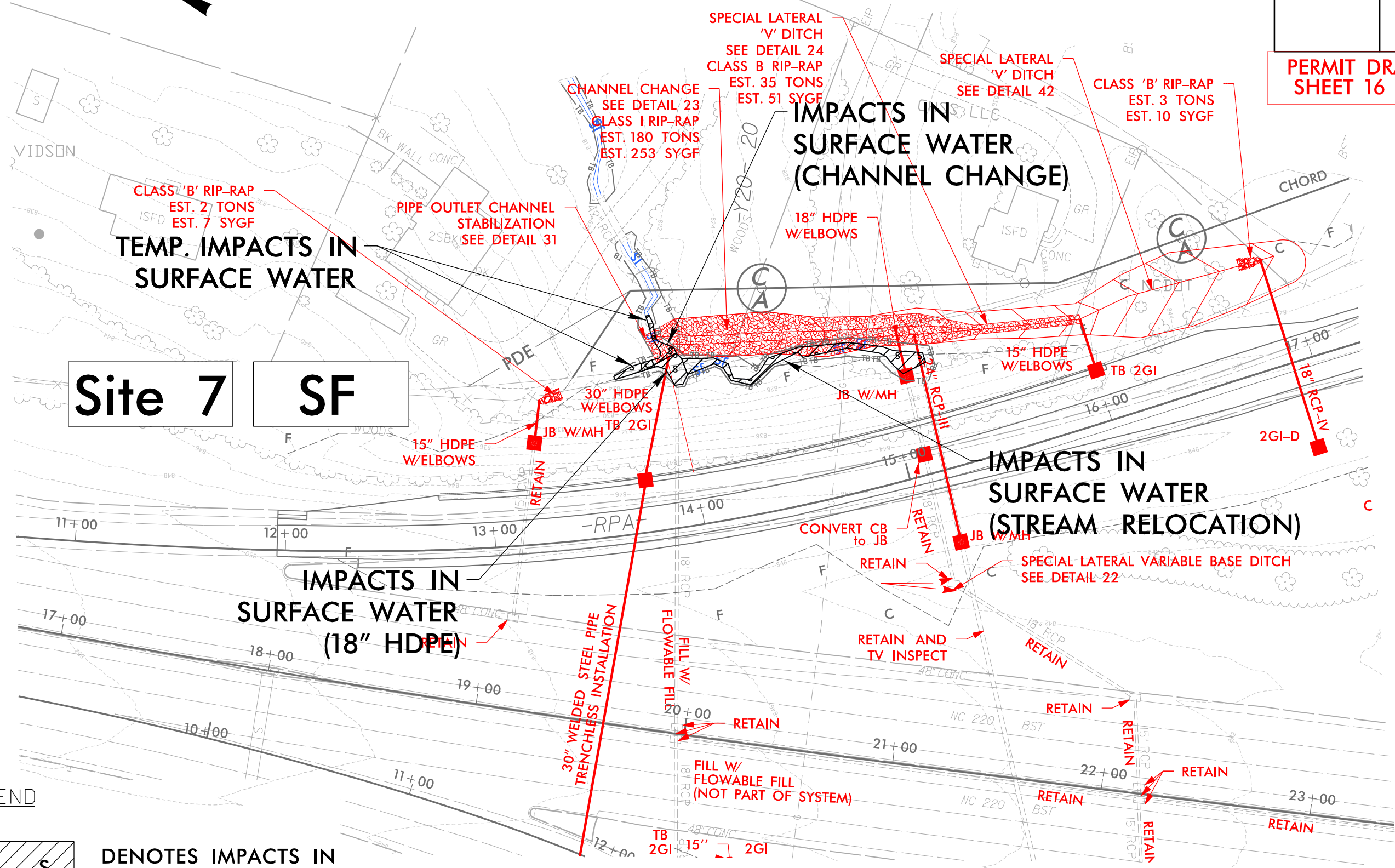
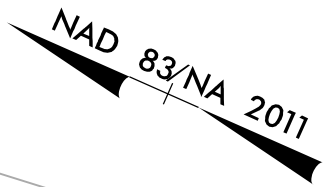
-  DENOTES IMPACTS IN SURFACE WATER
-  DENOTES TEMPORARY IMPACTS IN SURFACE WATER



PROJECT REFERENCE NO. U-5813	SHEET NO. 12
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER


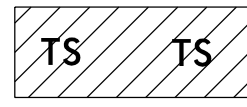
PERMIT DRAWING SHEET 16 OF 19

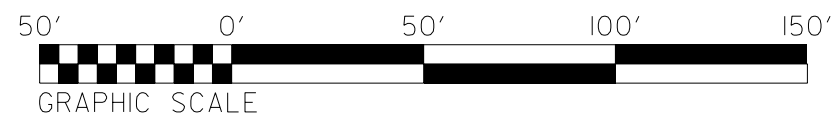
# WETLAND & STREAM IMPACTS



## Site 7 SF

### LEGEND

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



PROJECT REFERENCE NO. U-5813	SHEET NO. 12
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

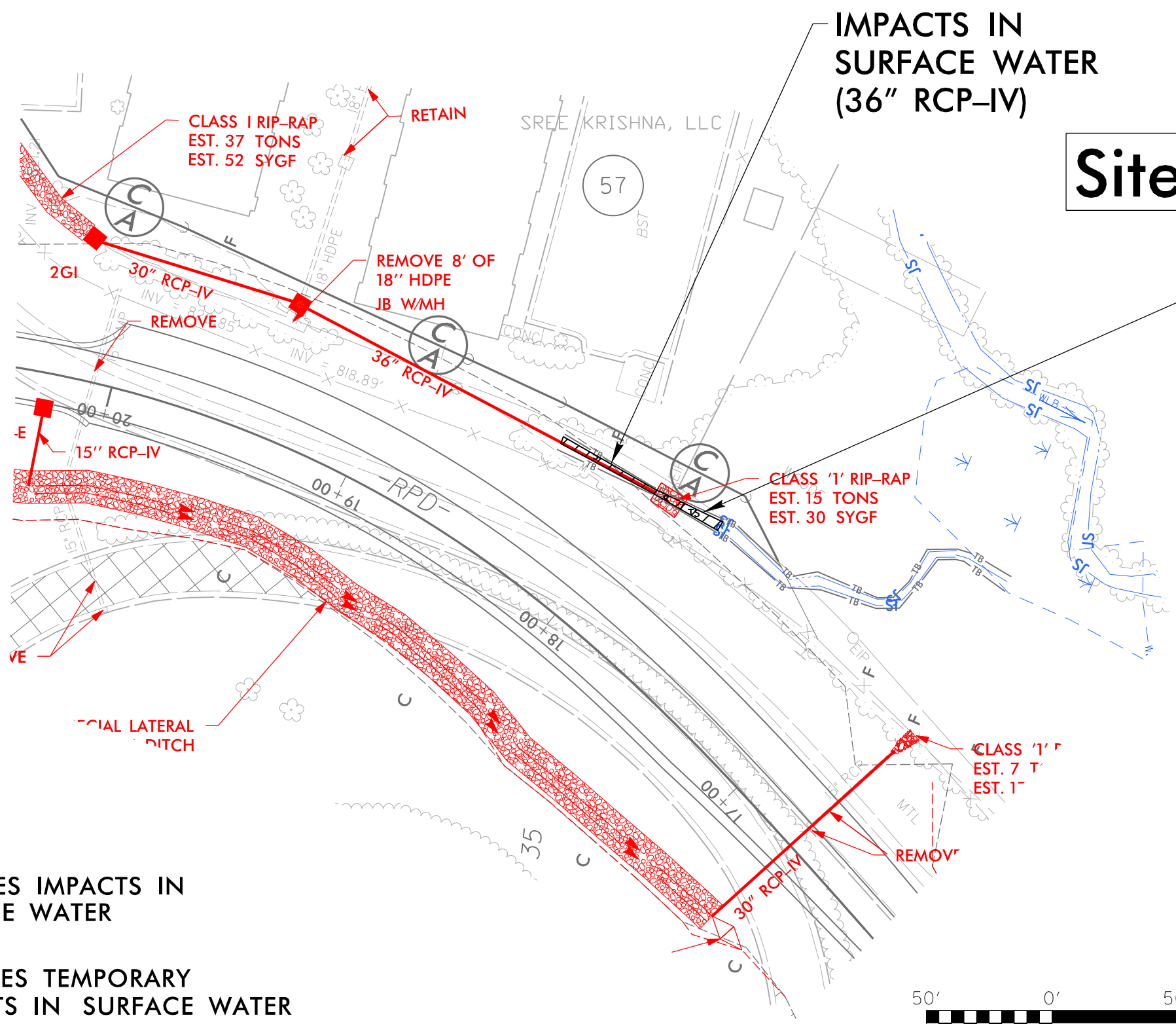
# WETLAND & STREAM IMPACTS

NAD 83/NA 2011

PERMIT DRAWING SHEET 17 OF 19

Site 8

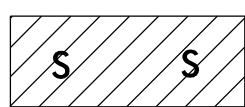
SA



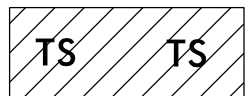
IMPACTS IN SURFACE WATER (36" RCP-IV)

TEMP. IMPACTS IN SURFACE WATER

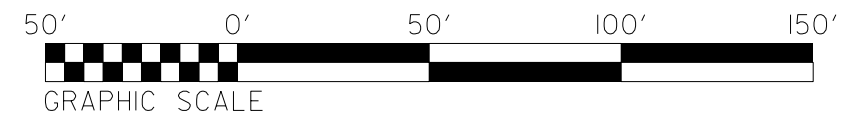
### LEGEND



DENOTES IMPACTS IN SURFACE WATER



DENOTES TEMPORARY IMPACTS IN SURFACE WATER



PROJECT REFERENCE NO. U-5813	SHEET NO. 12
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

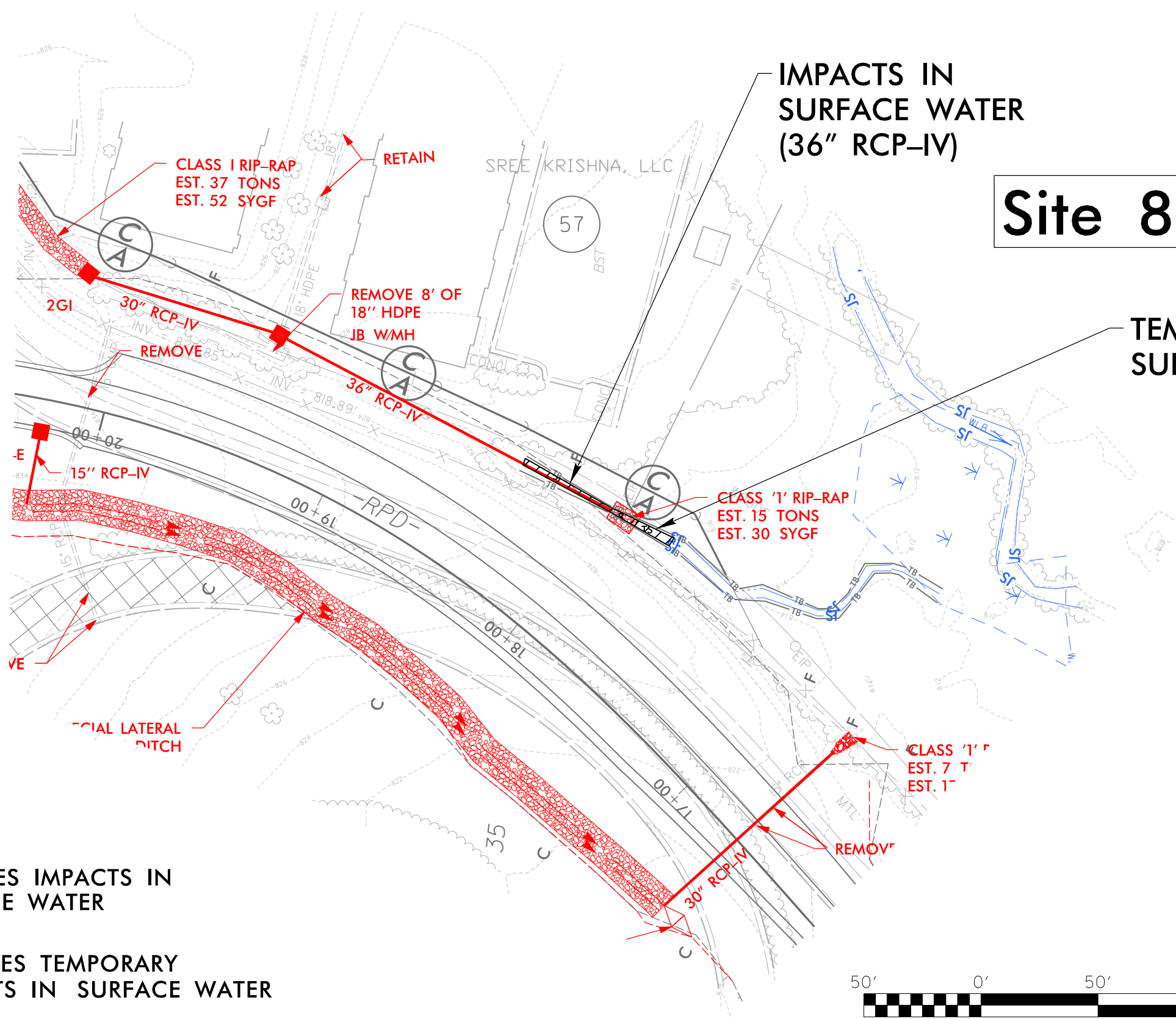
# WETLAND & STREAM IMPACTS

NAD 83/NA 2011

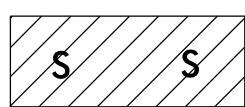
PERMIT DRAWING SHEET 18 OF 19

Site 8

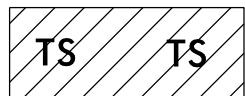
SA



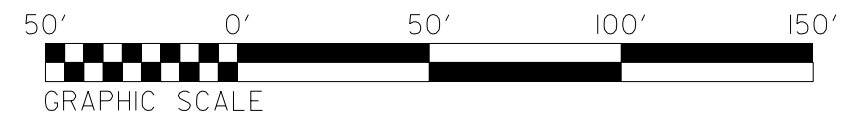
### LEGEND



DENOTES IMPACTS IN SURFACE WATER



DENOTES TEMPORARY IMPACTS IN SURFACE WATER



## WETLAND AND SURFACE WATER IMPACTS SUMMARY

Site No.	Stream Name Stream ID	Station (From/To)	Structure Size / Type	WETLAND IMPACTS					SURFACE WATER IMPACTS				
				Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
1	UT to Cable Creek / SL	-L- 25+91 to 26+52 RT	Channel Stabilization						< 0.01	< 0.01	52	10	
2	UT to Cedar Fork Creek / SK	-Y5- 10+82 to 11+91 LT	Stream Relocation						< 0.01	< 0.01	103	31	
3	UT to Cedar Fork Creek / SJ	-L- 53+47 to 53+66 LT	Bank Stabilization						< 0.01	< 0.01	14	5	
3	UT to Cedar Fork Creek / SJ	-L- 54+18 to 54+35 RT	9' X 8' RCBC						< 0.01		53		
3	UT to Cedar Fork Creek / SJ	-L- 54+19 to 54+38 RT	Bank Stabilization						< 0.01	< 0.01	36	10	
4	UT to Cedar Fork Creek / SH	-L- 54+33 to 56+40 RT	Stream Relocation						0.02	< 0.01	190	11	
5	UT to Cedar Fork Creek / SI	-Y7- 11+04 to 11+11 LT/RT	Riprap at embankment						< 0.01	< 0.01	5	20	
6	UT to Little River / SE	-RPC- 17+98 to 18+37 LT	36" HDPE						< 0.01	< 0.01	19	23	
7	UT to Cedar Fork Creek / SF	-RPA- 13+66 to 14+04 LT	18" HDPE						< 0.01	< 0.01	16	20	
7	UT to Cedar Fork Creek / SF	-RPA- 13+87 to 14+00 LT	Channel Change						< 0.01	< 0.01	12	10	
7	UT to Cedar Fork Creek / SF	-RPA- 14+02 to 15+22 LT	Stream Relocation						0.01		120		
8	UT to Little River / SA	-RPD- 17+75 to 18+38 RT	36" RCP-IV						< 0.01	< 0.01	55	17	
TOTALS*:									0.068	0.014	675	157	

\*Rounded totals are sum of actual impacts

NOTES:

NC DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
10/6/2020  
Randolph County  
U-5813  
44385.1.3

# Mitigation Acceptance



NORTH CAROLINA  
Environmental Quality

ROY COOPER  
Governor

MICHAEL S. REGAN  
Secretary

TIM BAUMGARTNER  
Director

February 26, 2021

Mr. Philip S. Harris, III, P.E.  
Environmental Analysis Unit  
North Carolina Department of Transportation  
1598 Mail Service Center  
Raleigh, North Carolina 27699-1598

Dear Mr. Harris:

Subject: Mitigation Acceptance Letter:

**U-5813**, US 64 Widening from Asheboro Bypass to East of I-73 / I-74 / US 220, Randolph County

The purpose of this letter is to notify you that the Division of Mitigation Services (DMS) will provide the compensatory stream mitigation for the subject project. Based on the information supplied by you on February 25, 2021, the impacts are located in CUs 03040103 and 03040104 of the Yadkin River basin in the Central Piedmont (CP) Eco-Region, and are as follows:

Stream and Wetlands	River Basin	CU Location	Eco-Region	Stream			Wetlands		
				Cold	Cool	Warm	Riparian	Non-Riparian	Coastal Marsh
Impacts	Yadkin	03040103	CP	0	0	551.0	0	0	0
Impacts	Yadkin	03040104	CP	0	0	74.0	0	0	0

\*Some of the stream impacts may be proposed to be mitigated at a 1:1 mitigation ratio. See permit application for details.

DMS commits to implementing sufficient compensatory stream mitigation credits to offset the impacts associated with this project as determined by the regulatory agencies in accordance with the In-Lieu Fee Instrument dated July 28, 2010. If the above referenced impact amounts are revised, then this mitigation acceptance letter will no longer be valid and a new mitigation acceptance letter will be required from DMS.

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

Sincerely,

James B. Stanfill  
DMS Asset Management Supervisor

cc: Mr. Monte Matthews, USACE – Raleigh Regulatory Field Office  
Ms. Amy Chapman, NCDWR  
File: U-5813



# CP4C

# Minutes

## U-5813 CP-4C MEETING MINUTES



### Interagency Permit Drawing Package Review Meeting

State Project: U-5813, US 64 from Asheboro Bypass to East of I-73/I-74/US-220  
Meeting Date: October 21, 2020  
Date: November 5, 2020  
Location: GoTo Meeting

#### Team Members:

Rob Ridings, NCDWR	(present)
Robert Patterson, NCDWR	(present)
Travis Wilson, NCWRC	(not present)
Felix Davila, FHWA	(not present)
James Lastinger, USACE	(not present)
Gary Jordan, USFWS	(not present)
Amanetta Somerville, USEPA	(not present)

#### Participants:

Reuben Blakley, PE (NCDOT – Div. 8 DCE)  
Rex Badgett (NCDOT – Div. 8)  
Pam Williams (NCDOT – PMU)  
Terry Farr, PE (NCDOT – PMU)  
Melanie Nguyen, PE (NCDOT – PMU)  
Jennifer Hernandez, PE (NCDOT – PMU)  
Paul Atkinson, PE (NCDOT – Hydraulics)  
Krishna Sedai, PE (NCDOT – SMU)  
Tucker Martin, PE (NCDOT – Utilities)  
Chris Rivenbark (NCDOT – ECAP)  
Jason Dilday (NCDOT – ECAP)  
Jennifer Parish, EI (NCDOT – REU)  
Mark Staley, EI (NCDOT – REU)  
Dan Robinson, PE (Kimley Horn – Hydraulics GEC)  
Jordan Bendl, EI (Kimley Horn – Hydraulics GEC)  
Roy Tellier, PE (HNTB Roadway)  
John Hornbeck, PE (HNTB Roadway)  
James Byrd, PE (HNTB Hydraulics)  
Paul Cameron, PE (HNTB Hydraulics)

**On 11/23/20 HNTB provided response to comments provided within these minutes. Those responses are shown in RED.**

#### Minutes

James Byrd, HNTB Hydraulics Section Manager, welcomed everyone to the meeting and handled introductions of the project team. Attendance was confirmed and the Permit Drawing Package was displayed on screen using the GoTo Meeting platform to facilitate discussions.

Digital pdf copies of the U-5813 Permit Drawing Package were provided to meeting attendees on the NCDOT xfer site at this link: <https://xfer.services.ncdot.gov/pdea/4B4CMtgPkgDraw/U-5813%204C/>

The meeting continued with a page flip of the Permit Drawing Package beginning with the Stormwater Management Plan (SMP) followed by a site by site review.

#### General Comments

- It should be noted that this project “is not” in Merger. This meeting was held following the CP4C Meeting format to facilitate interagency discussion while providing a review of the Project Drainage Designs and Permit Drawing Package.

## SMP

- Robert Patterson led off the discussion with revisions needed on the SMP. This included updating the stream classification for the UT to Cedar Fork Creek to HQW, WS-II from the Class C designation shown. **Comment incorporated.**
- Rob Ridings added that the correct classification is included on the project Green Sheet and has been well documented. He further added that there are potential design implications of the classification change and that HNTB will need to provide designs that meet the design criteria to the maximum extent practicable (MEP).  
**HNTB has updated the SMP and looked at all sites draining to the UT to Cedar Fork Creek to maximum treatment opportunities. Site 4 has been updated to include some grassed swale treatment where allowable. Going forward, the erosion control plans will be designed to High Quality Water standards.**
- HNTB responded that it would update the SMP accordingly and make sure that Erosion Control Designs in the area of concern are designed to the standards for Sensitive Watersheds.
- Robert Patterson requested that HNTB revisit the Swales portion of the SMP and delete any listed features that are clearly not swales such as Channel Relocations.
  - HNTB acknowledged the direction and advised that it would update the table.  
**The swale table has been updated to only include features that meet swale criteria and don't carry any live flow.**
- Prior to this meeting, Robert Patterson provided an e-mail requesting that the implementation of Hazardous Spill Basins be investigated for the portion of the project that drains into the UT to Cedar Fork Creek watershed. This e-mail is attached to these minutes.
  - At the conclusion of the meeting Dan Robinson advised that hazardous spill basins are not required since the project is approx. 1.5 miles upstream of the Critical Area (CA).
  - Robert Patterson conceded that while DWR cannot enforce the use of hazardous spill basins, they would like to see more treatment provided for Sites 2 through 5.
  - HNTB advised that they would investigate additional treatment options along with the site comments provided below.  
**Treatment options investigated. It has been confirmed that hazardous spill basins are not warranted and provide NCDOT unwanted maintenance issues.**
- At the conclusion of the meeting Rob Ridings reiterated several key points that included the following:
  - Keep investigating treatment options and maximize swale placement.
  - Confirm that the erosion control plan will be developed to sensitive watershed standards resultant of the revised UT to Cedar Fork Creek classification.
  - When submitting the permit package, designs/plans for locations such as Site 4 should include provisions to keep banks stabilized and vegetated to the extent possible. This includes the use of coir fiber beyond limits of geotextile shown in ditch details and notes to develop thick stand of native vegetation on overbanks.  
**Channel change details have been updated in response to comments. This includes channel changes at Site 2 and Site 4. The Class II Rip Rap in Detail 10 (site 4) extends to top of bank (shallow channel change on steeper slope) so no additional matting has been called for. The same applies to Channel Change Detail 23 Detail 11 (site 2) has been updated to include coir fiber to top of banks.**
  - For any questions or concerns, contact Rob directly and he will provide any necessary information. He will also provide the Standard Project 401 Conditions for HQW and WS-II for the design team's use.
    - The above noted Standard Project 401 Conditions were provided on 10/21/2020.

## Site 1

- James Byrd provided a description of the impacts at this location.
- There were no questions or comments provided.
- James Byrd added the beginning of the project ties to the recently completed NCDOT Design Build Project R-2536 (Asheboro Bypass).

- Roy Tellier advised that the Permit Drawing Package is showing the up-to-date FS File.

#### **Site 2**

- James Byrd provided a description of the impacts at this location.
- No questions or comments were provided.

#### **Site 3**

- James Byrd provided a description of the impacts at this location.
- Special attention was given to this location to avoid impacts on the downstream property and the existing 3 @ 54" RCP culverts.

#### **Site 3 (Cont.)**

- Rob Riding asked the design team to consider other options for pipe outlets that would avoid direct untreated discharges into the stream if possible.
  - Of particular concern was the discharge directly into the proposed RCBC via a 36" RCP.
  - James Byrd advised this outlet point was chosen to minimize impacts to Parcel 20.
  - James Byrd added that in addition to the SBG that's being drained, this outlet also included runoff from line ahead that's being treated in grass swales.
  - James Byrd advised that designs in this area would be revisited as requested but added that limiting factors at this location such as existing topography and ROW constraints may dictate that current designs remain.

**Additional investigations completed for Site 3. It has been confirmed that the best option is to route the pipe outlet through the culvert sidewalk due to ROW concerns on Parcel 20 and downstream property impacts.**

- Krishna Sedai asked for confirmation that the proposed 36" RCP will outlet into the side wall of the proposed RCBC.
  - James Byrd confirmed the design and noted that other options weren't viable due to NCDOT direction that impacts to Parcel 20 be minimized/avoided to the extent practicable.

#### **Site 4**

- James Byrd provided a description of the impacts at this location.
- James Byrd noted that the proposed culvert is steeper than ideal and added that the proposed designs match the existing conditions.
- Rob Ridings mentioned maximizing potential treatment of the outfall at the beginning of Permit Drawing Sheet 9.
  - HNTB advised that it would revisit this area for potential design revisions.

**System 0802 has been redesigned to discharge line ahead at -L- 57+00 Rt. This allowed 70 linear feet of grass swale treatment for the outfall previously discharging directly into the HQW.**

#### **Site 5**

- James Byrd provided a description of the impacts at this location.
  - Downstream impacts are resultant of repair work being done to retain the existing pipe.
  - Upstream impacts are the result the driveway near the culvert inlet.
- No questions or comments were provided.

#### **Site 6**

- James Byrd provided a description of the impacts at this location.
  - Proposed impacts are the result of an existing pipe being replaced along with the placement of adequate outlet protection.
- No questions or comments were provided.

#### **Site 7**

- James Byrd provided a description of the impacts at this location.

- Proposed impacts are the result of the improvements to Ramp A.
- There were no questions or comments provided.

**Site 8**

- James Byrd provided a description of the impacts at this location.
  - Proposed impacts are the result of the improvements to Ramp D.
- There were no questions or comments provided.

This is our understanding of items discussed and decisions reached. Please contact us if there are changes or additions.

Submitted by,  
HNTB North Carolina, P.C.  
Paul Cameron, PE

# Archaeology



17-04-0020

archaeological survey and evaluation, with an emphasis on the southern side of the APE, unless identified as disturbed during the field effort. The survey was conducted on behalf of the North Carolina Department of Transportation (NCDOT).

The archaeological investigation was designed to locate and identify cultural resources within the defined project area and to obtain sufficient information to make recommendations regarding their potential eligibility for listing in the National Register of Historic Places (NRHP). During the survey, Stantec conducted pedestrian survey of the entire APE and systematic subsurface testing in those portions of the APE that appeared intact. Shovel tests were excavated at 30-meter (98.4-foot) intervals in most areas, with a reduction to 15-meter (49.2-foot) intervals in areas exhibiting a greater potential for cultural resources. A total of 128 shovel tests were excavated at 30-meter intervals along one to two transects spaced 30 meters (98.4 feet) apart wherever the ground was accessible and free from disturbance. The entire project area was subject to pedestrian survey. A total of three shovel tests were not excavated, in areas otherwise subjected to survey, due to a concrete lot, standing water, and a fenced in yard with a large dog. Areas subject to pedestrian survey with no systematic subsurface testing were not shovel tested due to slope, drainage, wetlands, road surfaces, underground utilities, concrete parking lots, landscaping, standing structures, subsoil on the surface, and prior disturbance. Fourteen shovel tests were positive for cultural material and 13 radial shovel tests were excavated to determine the bounds of the newly identified cultural resources. Six radial shovel tests were positive for additional cultural material. In addition, surface artifacts were observed and sampled.

Further, NCDOT archaeologists also investigated several minor refinements to the APE. For these, fieldwork was conducted that included pedestrian survey and mapping of three locations that were larger or, in one case, appeared to encroach upon the West Bend United Methodist Church cemetery. Engineering is currently studying opportunities for avoidance of the cemetery.

No previously identified archaeological sites were located within the project area. Six new archaeological sites (31RD1586, 31RD1587, 31RD1588, 31RD1589, 31RD1590, and 31RD1591) were identified during this survey. Sites 31RD1589 and 31RD1591 are both multi-component sites featuring prehistoric lithic scatters of indeterminate temporal affiliation and twentieth century artifact scatters. Site 31RD1587 is a prehistoric lithic scatter dating to the Archaic period. The remaining three sites (31RD1586, 31RD1588, and 31RD1590) represent prehistoric lithic scatters of indeterminate temporal affiliation. Several of these sites appear to be related to quarry activity throughout the APE. No surface or subsurface features were noted. The artifacts were recovered from survey, top soil, and transitional deposits. Stantec recommends Sites 31RD1586, 31RD1587, 31RD1588, 31RD1589, 31RD1590, and 31RD1591 as not eligible for listing to the NRHP under Criterion D; Criteria A through C were not considered applicable to the evaluation of these resources. See report (Sadler and Stewart 2019) for more specific information. No additional archaeological work is recommended for this undertaking.

Since there are no previously recorded or newly documented archaeological sites eligible for listing on the NRHP is known within the APE, a finding of no National Register of Historic Places listed or eligible sites is appropriate.

***The North Carolina Department of Transportation (NCDOT) Archaeology Group reviewed the subject project and determined:***

- There are no National Register listed or eligible ARCHAEOLOGICAL SITES present within the project's area of potential effects. (Attach any notes or documents as needed)
- No subsurface archaeological investigations were required for this project.
- Subsurface investigations did not reveal the presence of any archaeological resources.
- Subsurface investigations did not reveal the presence of any archaeological resources considered eligible for the National Register.
- All identified archaeological sites located within the APE have been considered and all compliance for archaeological resources with Section 106 of the National Historic Preservation Act and GS 121-12(a) has been completed for this project.

17-04-0020

**SUPPORT DOCUMENTATION**

See attached:  Map(s)     Previous Survey Info     Photos     Correspondence

Signed:



**01/23/2019**

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**NCDOT ARCHAEOLOGIST**

**Date**

Historic  
Architecture  
&  
Landscapes

17-04-0020



## HISTORIC ARCHITECTURE AND LANDSCAPES NO HISTORIC PROPERTIES PRESENT OR AFFECTED FORM

This form only pertains to Historic Architecture and Landscapes for this project. It is not valid for Archaeological Resources. You must consult separately with the Archaeology Group.

### PROJECT INFORMATION

<b>Project No:</b>	U-5813	<b>County:</b>	Randolph
<b>WBS No.:</b>	44385.1.3	<b>Document Type:</b>	CE
<b>Fed. Aid No:</b>		<b>Funding:</b>	<input type="checkbox"/> State <input checked="" type="checkbox"/> Federal
<b>Federal Permit(s):</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<b>Permit Type(s):</b>	NWP
<b><u>Project Description:</u></b>			
Widen 1.3 miles of US 64 from the future Asheboro Bypass to the existing US 64 4-lane section. Reconstruct interchange at NC 49, replace NC 49 Bridge over US 64 (Bridge No. 750171). Reconfiguration of the US 64 and Albemarle ramps and loops.			

### SUMMARY OF HISTORIC ARCHITECTURE AND LANDSCAPES REVIEW

- There are no National Register-listed or Study Listed properties within the project's area of potential effects.
- There are no properties less than fifty years old which are considered to meet Criteria Consideration G within the project's area of potential effects.
- There are no properties within the project's area of potential effects.
- There are properties over fifty years old within the area of potential effects, but they do not meet the criteria for listing on the National Register.
- There are no historic properties present or affected by this project. (Attach any notes or documents as needed.)

#### Date of field visit:

#### **Description of review activities, results, and conclusions:**

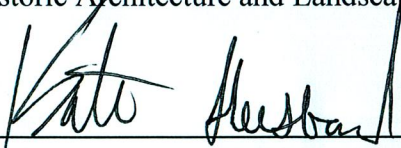
Review of HPO quad maps, HPO GIS information, historic designations roster, and indexes was undertaken on April 11, 2017. Based on this review, there are survey sites and properties over fifty years of age within the APE and a survey was required. In June 2017, architectural historians conducted a preliminary investigation of the APE and completed a building inventory identifying 91 resources over fifty years of age. One property, the West Bend United Methodist Church, (RD0931, 1080 Albemarle Road) warranted further study and all other properties were determined not eligible for National Register listing. An evaluation report was written on the church in November 2017 and it was determined that the church is not eligible for National Register listing. The State Historic Preservation Office concurred with this finding on December 18, 2017. There are no National Register listed or eligible properties present. If design plans change, additional review will be required.

**SUPPORT DOCUMENTATION**

Map(s)     Previous Survey Info.     Photos     Correspondence     Design Plans

**FINDING BY NCDOT ARCHITECTURAL HISTORIAN**

Historic Architecture and Landscapes – **NO HISTORIC PROPERTIES PRESENT OR AFFECTED**

  
\_\_\_\_\_  
NCDOT Architectural Historian

12/10/2017  
\_\_\_\_\_  
Date

# 2021 Issued Permits

**U.S. ARMY CORPS OF ENGINEERS  
WILMINGTON DISTRICT**

Action Id. SAW-2017-00319 County: Randolph U.S.G.S. Quad: NC-Asheboro

**GENERAL PERMIT (REGIONAL AND NATIONWIDE) VERIFICATION**

Permittee: NCDOT  
Phillip Harris  
Address: 1000 Birch Ridge Drive  
Raleigh, NC 27610  
Telephone Number: 919-707-6000  
E-mail: pharris@ncdot.gov

Size (acres) N/A Nearest Town Asheboro  
Nearest Waterway Cedar Fork Creek River Basin Upper Pee Dee  
USGS HUC 03040104, 03040103 Coordinates Latitude: 35.6908  
Longitude: -79.8495

Location description: The proposed project is approximately 2.6 miles along existing US Hwy 64 from approximately Skeen View Road east to the interchange of NC 49 and US Hwy 73/74, near the town of Asheboro, Randolph County, North Carolina.

Description of projects area and activity: This verification authorizes the discharge of fill material into 832 linear feet of stream channel at 8 sites along the corridor as depicted in the table below:

Site number	Aquatic Resource	Permanent Impact	Temporary Impact
Site 1	Stream SL	52 LF (bank stabilization)	10 LF
Site 2	Stream SK	103 LF (stream relocation)	31 LF
Site 3	Stream SJ	53 LF (Culvert) 50 LF (bank stabilization)	15 LF
Site 4	Stream SH	190 LF (stream relocation)	11 LF
Site 5	Stream SI	5 LF (rip rap fill)	20 LF
Site 6	Stream SE	19 LF (pipe outlet/fill)	23 LF
Site 7	Stream SF	16 LF (pipe outlet/fill) 132 LF (stream relocation)	30 LF
Site 8	Stream SA	55 LF (pipe outlet/fill)	17 LF

Applicable Law(s):  Section 404 (Clean Water Act, 33 USC 1344)  
 Section 10 (Rivers and Harbors Act, 33 USC 403)

Authorization: **RGP50 NC DOT Bridges Widening Projects, Interchange Improvements**

**SEE ATTACHED NWP GENERAL, REGIONAL, AND/OR SPECIAL CONDITIONS**

**Your work is authorized by the above referenced permit provided it is accomplished in strict accordance with the enclosed Conditions, your application signed and dated 3/2/2021, and the enclosed plans U-5813 dated 10/6/2020. Any violation of the attached conditions or deviation from your submitted plans may subject the permittee to a stop work order, a restoration order, a Class I administrative penalty, and/or appropriate legal action.**

This verification will remain valid until the expiration date identified below unless the nationwide authorization is modified, suspended or revoked. If, prior to the expiration date identified below, the nationwide permit authorization is reissued and/or modified, this verification will remain valid until the expiration date identified below, provided it complies with all requirements of the modified nationwide permit. If the nationwide permit authorization expires or is suspended, revoked, or is modified, such that the activity would no longer comply with the terms and conditions of the nationwide permit, activities which have commenced (i.e., are under construction) or are under contract to commence in reliance upon the nationwide permit, will remain authorized provided the activity is completed within twelve months of the date of the nationwide permit's expiration, modification or revocation, unless discretionary authority has been exercised on a case-by-case basis to modify, suspend or revoke the authorization.

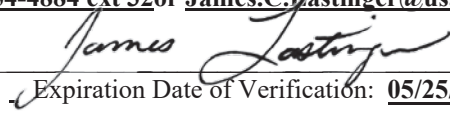
Activities subject to Section 404 (as indicated above) may also require an individual Section 401 Water Quality Certification. You should contact the NC Division of Water Resources (telephone 919-807-6300) to determine Section 401 requirements.

For activities occurring within the twenty coastal counties subject to regulation under the Coastal Area Management Act (CAMA), prior to beginning work you must contact the N.C. Division of Coastal Management **Morehead City, NC, at (252) 808-2808.**

This Department of the Army verification does not relieve the permittee of the responsibility to obtain any other required Federal, State or local approvals/permits.

If there are any questions regarding this verification, any of the conditions of the Permit, or the Corps of Engineers regulatory program, please contact **James Lastinger** at **919-554-4884 ext 32** or **James.C.Lastinger@usace.army.mil**.

Corps Regulatory Official: \_\_\_\_\_

  
Expiration Date of Verification: **05/25/2025**

Date: **04/08/2021**

**SPECIAL CONDITIONS**

a. In order to compensate for impacts associated with this permit, mitigation shall be provided in accordance with the provisions outlined on the most recent version of the attached Compensatory Mitigation Responsibility Transfer Form. The requirements of this form, including any special conditions listed on this form, are hereby incorporated as special conditions of this permit authorization.

b. The U.S. Fish and Wildlife Service's (USFWS's) Programmatic Biological Opinion (BO) titled "Northern Long-eared Bat (NLEB) Programmatic Biological Opinion for North Carolina Department of Transportation (NCDOT) Activities in Eastern North Carolina (Divisions 1-8)," dated March 25, 2015, and adopted on April 10, 2015, contains mandatory terms and conditions to implement the reasonable and prudent measures that are associated with "incidental take" that are specified in the BO. Your authorization under this Department of the Army permit is conditional upon your compliance with all the mandatory terms and conditions associated with incidental take of the BO, which terms and conditions are incorporated by reference in this permit. Failure to comply with the terms and conditions associated with incidental take of the BO, where a take of the listed species occurs, would constitute an unauthorized take, and it would also constitute non-compliance with your Department of the Army permit. The USFWS is the appropriate authority to determine compliance with the terms and conditions of its BO, and with the ESA.

Action ID Number: SAW-2017-00319 County: Randolph

Permittee: NCDOT, Phillip Harris

Project Name: U-5813

Date Verification Issued: 04/08/2021

Project Manager: James Lastinger

Upon completion of the activity authorized by this permit and any mitigation required by the permit, sign this certification and return it to the following address:

US ARMY CORPS OF ENGINEERS  
WILMINGTON DISTRICT  
Attn: James Lastinger  
Raleigh Regulatory Office  
U.S Army Corps of Engineers  
3331 Heritage Trade Drive, Suite 105  
Wake Forest, North Carolina 27587  
or  
James.C.Lastinger@usace.army.mil

Please note that your permitted activity is subject to a compliance inspection by a U. S. Army Corps of Engineers representative. Failure to comply with any terms or conditions of this authorization may result in the Corps suspending, modifying or revoking the authorization and/or issuing a Class I administrative penalty, or initiating other appropriate legal action.

I hereby certify that the work authorized by the above referenced permit has been completed in accordance with the terms and condition of the said permit, and required mitigation was completed in accordance with the permit conditions.

---

Signature of Permittee

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Date

## Compensatory Mitigation Responsibility Transfer Form

**Permittee:** NCDOT, Phillip Harris  
**Project Name:** U-5813

**Action ID:** SAW-2017-00319  
**County:** Randolph

**Instructions to Permittee:** The Permittee must provide a copy of this form to the Mitigation Sponsor, either an approved Mitigation Bank or the North Carolina Division of Mitigation Services (NCDMS), who will then sign the form to verify the transfer of the mitigation responsibility. Once the Sponsor has signed this form, it is the Permittee's responsibility to ensure that to the U.S. Army Corps of Engineers (USACE) Project Manager identified on page two is in receipt of a signed copy of this form before conducting authorized impacts, unless otherwise specified below. If more than one mitigation Sponsor will be used to provide the mitigation associated with the permit, or if the impacts and/or the mitigation will occur in more than one 8-digit Hydrologic Unit Code (HUC), multiple forms will be attached to the permit, and the separate forms for each Sponsor and/or HUC must be provided to the appropriate mitigation Sponsors.

**Instructions to Sponsor:** The Sponsor must verify that the mitigation requirements (credits) shown below are available at the identified site. By signing below, the Sponsor is accepting full responsibility for the identified mitigation, regardless of whether or not they have received payment from the Permittee. Once the form is signed, the Sponsor must update the bank ledger and provide a copy of the signed form and the updated bank ledger to the Permittee, the USACE Project Manager, and the Wilmington District Mitigation Office (see contact information on page 2). The Sponsor must also comply with all reporting requirements established in their authorizing instrument.

**Permitted Impacts and Compensatory Mitigation Requirements:**

Permitted Impacts Requiring Mitigation*			8-digit HUC and Basin: 03040104, Yadkin River Basin			
Stream Impacts (linear feet)			Wetland Impacts (acres)			
Warm	Cool	Cold	Riparian Riverine	Riparian Non-Riverine	Non-Riparian	Coastal
74						

\*If more than one mitigation sponsor will be used for the permit, only include impacts to be mitigated by this sponsor.

Compensatory Mitigation Requirements:			8-digit HUC and Basin: 03040104, Yadkin River Basin			
Stream Mitigation (credits)			Wetland Mitigation (credits)			
Warm	Cool	Cold	Riparian Riverine	Riparian Non-Riverine	Non-Riparian	Coastal
74						

Permitted Impacts Requiring Mitigation*			8-digit HUC and Basin: 03040103, Yadkin River Basin			
Stream Impacts (linear feet)			Wetland Impacts (acres)			
Warm	Cool	Cold	Riparian Riverine	Riparian Non-Riverine	Non-Riparian	Coastal
456						

\*If more than one mitigation sponsor will be used for the permit, only include impacts to be mitigated by this sponsor.

Compensatory Mitigation Requirements:			8-digit HUC and Basin: 03040103, Yadkin River Basin			
Stream Mitigation (credits)			Wetland Mitigation (credits)			
Warm	Cool	Cold	Riparian Riverine	Riparian Non-Riverine	Non-Riparian	Coastal
599						

**Mitigation Site Debited:** NCDMS

(List the name of the bank to be debited. For umbrella banks, also list the specific site. For NCDMS, list NCDMS. If the NCDMS acceptance letter identifies a specific site, also list the specific site to be debited).

**Section to be completed by the Mitigation Sponsor**

**Statement of Mitigation Liability Acceptance:** I, the undersigned, verify that I am authorized to approve mitigation transactions for the Mitigation Sponsor shown below, and I certify that the Sponsor agrees to accept full responsibility for providing the mitigation identified in this document (see the table above), associated with the USACE Permittee and Action ID number shown. I also verify that released credits (and/or advance credits for NCDMS), as approved by the USACE, are currently available at the mitigation site identified above. Further, I understand that if the Sponsor fails to provide the required compensatory mitigation, the USACE Wilmington District Engineer may pursue measures against the Sponsor to ensure compliance associated with the mitigation requirements.

**Mitigation Sponsor Name:** NCDEQ DMS

**Name of Sponsor's Authorized Representative:** Beth Harmon

*Elizabeth Harmon*

Signature of Sponsor's Authorized Representative

04/12/2021

Date of Signature

**Conditions for Transfer of Compensatory Mitigation Credit:**

- Once this document has been signed by the Mitigation Sponsor and the USACE is in receipt of the signed form, the Permittee is no longer responsible for providing the mitigation identified in this form, though the Permittee remains responsible for any other mitigation requirements stated in the permit conditions.
- Construction within jurisdictional areas authorized by the permit identified on page one of this form can begin only after the USACE is in receipt of a copy of this document signed by the Sponsor, confirming that the Sponsor has accepted responsibility for providing the mitigation requirements listed herein. For authorized impacts conducted by the North Carolina Department of Transportation (NCDOT), construction within jurisdictional areas may proceed upon permit issuance; however, a copy of this form signed by the Sponsor must be provided to the USACE within 30 days of permit issuance. NCDOT remains fully responsible for the mitigation until the USACE has received this form, confirming that the Sponsor has accepted responsibility for providing the mitigation requirements listed herein.
- Signed copies of this document must be retained by the Permittee, Mitigation Sponsor, and in the USACE administrative records for both the permit and the Bank/ILF Instrument. It is the Permittee's responsibility to ensure that the USACE Project Manager (address below) is provided with a signed copy of this form.
- If changes are proposed to the type, amount, or location of mitigation after this form has been signed and returned to the USACE, the Sponsor must obtain case-by-case approval from the USACE Project Manager and/or North Carolina Interagency Review Team (NCIRT). If approved, higher mitigation ratios may be applied, as per current District guidance and a new version of this form must be completed and included in the USACE administrative records for both the permit and the Bank/ILF Instrument.

**Comments/Additional Conditions:** A letter from NCDMS, confirming they are willing and able to accept the applicant's compensatory mitigation responsibility, dated 2/26/2021 was included with the preconstruction notification.

This form is not valid unless signed below by the USACE Project Manager and by the Mitigation Sponsor on Page 1. ***Once signed, the Sponsor should provide copies of this form along with an updated bank ledger to: 1) the Permittee, 2) the USACE Project Manager at the address below, and 3) the Wilmington District Mitigation Office, Attn: Todd Tugwell, 11405 Falls of Neuse Road, Wake Forest, NC 27587 (email: todd.tugwell@usace.army.mil).*** Questions regarding this form or any of the permit conditions may be directed to the USACE Project Manager below.

**USACE Project Manager:** James Lastinger  
**USACE Field Office:** Raleigh Regulatory Office  
US Army Corps of Engineers  
3331 Heritage Trade Drive, Suite 105  
Wake Forest, North Carolina 27587  
**Email:** James.C.Lastinger@usace.army.mil



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**USACE Project Manager Signature**

04/08/2021

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**Date of Signature**

Current Wilmington District mitigation guidance, including information on mitigation ratios, functional assessments, and mitigation bank location and availability, and credit classifications (including stream temperature and wetland groupings) is available at <http://ribits.usace.army.mil>



NORTH CAROLINA  
Environmental Quality

ROY COOPER  
Governor

DIONNE DELLI-GATTI  
Secretary

S. DANIEL SMITH  
Director

March 18, 2021  
Randolph County  
NCDWR Project No. 20210147  
US 64 BUS West from US 64 BYP to I-73/I-74  
TIP No. U-5813

### APPROVAL of 401 WATER QUALITY CERTIFICATION with ADDITIONAL CONDITIONS

Mr. Philip S. Harris, III, P.E., CPM  
Natural Environment Section Head  
Project Development and Environmental Analysis  
North Carolina Department of Transportation  
1598 Mail Service Center  
Raleigh, North Carolina, 27699-1598

Dear Mr. Harris:

You have our approval, in accordance with the conditions listed below, for the following impacts for the purpose of highway improvements to US 64 Bus from Bypass 64 to I-73/I-74 in Randolph County:

#### Stream Impacts in the Yadkin River Basin

Site	Permanent Fill in Intermittent Stream (linear ft)	Relocation of Intermittent Stream (linear ft)	Stabilization / Riprap in Intermittent Stream (linear ft)	Temporary Impact to Intermittent Stream (linear ft)	Permanent Fill in Perennial Stream (linear ft)	Relocation of Perennial Stream (linear ft)	Stabilization / Riprap in Perennial Stream (linear ft)	Temporary Impact to Perennial Stream (linear ft)	Total Stream Impact (linear ft)
1	0	0	0	0	0	0	52	10	62
2	0	103	0	31	0	0	0	0	134
3	0	0	0	0	53	0	50	15	118
4	0	0	0	0	0	190	0	11	201
5	0	0	5	20	0	0	0	0	25
6	0	0	0	0	19	0	0	23	42
7	16	132	0	30	0	0	0	0	178
8	55	0	0	17	0	0	0	0	72
<b>Total</b>	<b>71</b>	<b>235</b>	<b>5</b>	<b>98</b>	<b>72</b>	<b>190</b>	<b>102</b>	<b>59</b>	<b>832</b>

**Total Stream Impact for Project: 832 linear feet.**

The project shall be constructed in accordance with your application received March 2, 2021. After reviewing your application, we have decided that these impacts are covered by General Water Quality Certification Number 4135. This certification corresponds to the General Permit 50 issued by the Corps of Engineers. In addition, you should acquire any other federal, state or local permits before you proceed with your project including (but not limited to) Sediment and Erosion Control, Non-Discharge and Water Supply Watershed regulations. This approval will expire with the accompanying 404 permit.



North Carolina Department of Environmental Quality | Division of Water Resources  
512 North Salisbury Street | 1617 Mail Service Center | Raleigh, North Carolina 27699-1617  
919.707.9000

This approval is valid solely for the purpose and design described in your application (unless modified below). Should your project change, you must notify the NCDWR and submit a new application. If the property is sold, the new owner must be given a copy of this Certification and approval letter, and is thereby responsible for complying with all the conditions. [15A NCAC 2H.0507(d)(2)]. The permittee shall report to DWR any noncompliance with, or any violation of, stream or wetland standards [15A NCAC 02B .0200] including but not limited to sediment impacts to streams or wetlands. Information shall be provided orally within 24 hours (or the next business day if a weekend or holiday) from the time the permittee became aware of the non-compliance circumstances. If total wetland fills for this project (now or in the future) exceed one acre, or of total impacts to streams (now or in the future) exceed 150 linear feet, compensatory mitigation may be required as described in 15A NCAC 2H .0506 (h) (6) and (7). For this approval to remain valid, you must adhere to the conditions listed in the General Certification and any additional conditions listed below.

#### Conditions of Certification:

1. The permittee shall use *Design Standards in Sensitive Watersheds* (15A NCAC 4B.0124[a]-[e]) in areas draining to WS-II, HQW waters. However, due to the size of the project, the NCDOT shall not be required to meet 15A NCAC 4B .0124(a) regarding the maximum amount of uncovered acres. [15A NCAC 2B.0224 & 2B.0225]
2. NCDOT shall be in compliance with the NCS00250 issued to the NCDOT, including the applicable requirements of the NCG01000. Please note the extra protections for the sensitive watersheds. [15A NCAC 2B.0224 & 2B.0225]
3. For projects impacting waters classified by the NC Environmental Management Commission as High Quality Waters (HQW), or Water Supply II stormwater shall be directed to vegetated buffer areas, grass-lined ditches or other means appropriate to the site for the purpose of pre-treating storm water runoff prior to discharging directly into streams, to the maximum extent possible. Mowing of existing vegetated buffers is strongly discouraged. [15A NCAC 2B.0224 & 2B.0225]
4. In areas draining to WS-II, HQW waters, tall fescue shall not be used in the establishment of temporary or permanent groundcover within riparian areas. For the establishment of permanent herbaceous cover, erosion control matting shall be used in conjunction with an appropriate native seed mix on disturbed soils within the riparian area and on disturbed steep slopes with the following exception. Erosion control matting is not necessary if the area is contained by perimeter erosion control devices such as silt fence, temporary sediment ditches, basins, etc. Matting should be secured in place with staples, stakes, or wherever possible, live stakes of native trees. Erosion control matting placed in riparian areas shall not contain a nylon mesh grid, which can impinge and entrap small animals. For the establishment of temporary groundcover within riparian areas, hydroseeding along with wood or cellulose based hydro mulch applied from a fertilizer- and limestone-free tank is allowable at the appropriate rate in conjunction with the erosion control measures. Discharging hydroseed mixtures and wood or cellulose mulch into surface waters is prohibited. Riparian areas are defined as a distance 25 feet landward from top of stream bank. [15A NCAC 2B.0224 & 2B.0225]
5. Channel relocations shall be completed and stabilized, and approved by NCDWR staff, prior to diverting water into the new channel. Stream banks shall be matted with coir-fiber matting. Vegetation used for bank stabilization shall be limited to native riparian vegetation, and should include establishment of a vegetated buffer on both sides of the relocated channel to the maximum extent practical. Also, rip-rap may be allowed if it is necessary to maintain the physical integrity of the stream, but the applicant must provide written justification and any calculations used to determine the extent of rip-rap coverage requested. Once the stream has been turned into the new channel, it may be necessary to relocate stranded fish to the new channel to prevent fish kills. [15A NCAC 02H .0506(b)(3)]
6. Unless otherwise approved in this certification, placement of culverts and other structures in open waters and streams, shall be placed below the elevation of the streambed by one foot for all culverts with a diameter greater than 48 inches, and 20 percent of the culvert diameter for culverts having a diameter less than 48 inches, to allow low flow passage of water and aquatic life. Design and placement of culverts and other structures including temporary erosion control measures shall not be conducted in a manner that may result in dis-equilibrium of wetlands or streambeds or banks, adjacent to or upstream and down stream of the above structures. The applicant is required to provide evidence that the equilibrium is being maintained if requested in writing by the NCDWR. If this condition is unable to be met due to bedrock or other limiting features encountered during construction, please contact the NCDWR for guidance on how to proceed and to determine whether or not a permit modification will be required. [15A NCAC 02H.0506(b)(2)]
7. If multiple pipes or barrels are required, they shall be designed to mimic natural stream cross section as closely as possible including pipes or barrels at flood plain elevation and/or sills where appropriate. Widening the stream channel should be avoided. Stream channel widening at the inlet or outlet end of structures typically decreases water velocity causing sediment deposition that requires increased maintenance and disrupts aquatic life passage. [15A NCAC 02H.0506(b)(2)]
8. Riprap shall not be placed in the active thalweg channel or placed in the streambed in a manner that precludes aquatic life passage. Bioengineering boulders or structures should be properly designed, sized and installed. [15A NCAC 02H.0506(b)(2)]



9. For all streams being impacted due to site dewatering activities, the site shall be graded to its preconstruction contours and revegetated with appropriate native species. [15A NCAC 02H.0506(b)(2)]
10. The stream channel shall be excavated no deeper than the natural bed material of the stream, to the maximum extent practicable. Efforts must be made to minimize impacts to the stream banks, as well as to vegetation responsible for maintaining the stream bank stability. Any applicable riparian buffer impact for access to stream channel shall be temporary and be revegetated with native riparian species. [15A NCAC 02H.0506(b)(2)]
11. If concrete is used during construction, a dry work area shall be maintained to prevent direct contact between curing concrete and stream water. Water that inadvertently contacts uncured concrete shall not be discharged to surface waters due to the potential for elevated pH and possible aquatic life and fish kills. [15A NCAC 02B.0200]
12. During the construction of the project, no staging of equipment of any kind is permitted in waters of the U.S., or protected riparian buffers. [15A NCAC 02H.0506(b)(2)]
13. The dimension, pattern and profile of the stream above and below the crossing shall not be modified. Disturbed floodplains and streams shall be restored to natural geomorphic conditions. [15A NCAC 02H.0506(b)(2)]
14. The use of rip-rap above the Normal High Water Mark shall be minimized. Any rip-rap placed for stream stabilization shall be placed in stream channels in such a manner that it does not impede aquatic life passage. [15A NCAC 02H.0506(b)(2)]
15. The Permittee shall ensure that the final design drawings adhere to the permit and to the permit drawings submitted for approval. [15A NCAC 02H .0507 (c) and 15A NCAC 02H .0506 (b)(2) and (c)(2)]
16. All work in or adjacent to stream waters shall be conducted in a dry work area. Approved BMP measures from the most current version of NCDOT Construction and Maintenance Activities manual such as sandbags, rock berms, cofferdams and other diversion structures shall be used to prevent excavation in flowing water. [15A NCAC 02H.0506(b)(3) and (c)(3)]
17. Heavy equipment shall be operated from the banks rather than in the stream channel in order to minimize sedimentation and reduce the introduction of other pollutants into the stream. [15A NCAC 02H.0506(b)(3)]
18. All mechanized equipment operated near surface waters must be regularly inspected and maintained to prevent contamination of stream waters from fuels, lubricants, hydraulic fluids, or other toxic materials. [15A NCAC 02H.0506(b)(3)]
19. No rock, sand or other materials shall be dredged from the stream channel except where authorized by this certification. [15A NCAC 02H.0506(b)(3)]
20. Discharging hydroseed mixtures and washing out hydroseeders and other equipment in or adjacent to surface waters is prohibited. [15A NCAC 02H.0506(b)(3)]
21. The permittee and its authorized agents shall conduct its activities in a manner consistent with State water quality standards (including any requirements resulting from compliance with §303(d) of the Clean Water Act) and any other appropriate requirements of State and Federal law. If the NCDWR determines that such standards or laws are not being met (including the failure to sustain a designated or achieved use) or that State or federal law is being violated, or that further conditions are necessary to assure compliance, the NCDWR may reevaluate and modify this certification. [15A NCAC 02B.0200]
22. A copy of this Water Quality Certification shall be maintained on the construction site at all times. In addition, the Water Quality Certification and all subsequent modifications, if any, shall be maintained with the Division Engineer and the on-site project manager. [15A NCAC 02H .0507(c) and 15A NCAC 02H .0506 (b)(2) and (c)(2)]
23. The outside buffer, wetland or water boundary located within the construction corridor approved by this authorization, including all non-commercial borrow and waste sites associated with the project, shall be clearly marked by highly visible fencing prior to any land disturbing activities. Impacts to areas within the fencing are prohibited unless otherwise authorized by this certification. [15A NCAC 02H.0501 and .0502]
24. The issuance of this certification does not exempt the Permittee from complying with any and all statutes, rules, regulations, or ordinances that may be imposed by other government agencies (i.e. local, state, and federal) having jurisdiction, including but not limited to applicable buffer rules, stormwater management rules, soil erosion and sedimentation control requirements, etc.



25. The Permittee shall report any violations of this certification to the Division of Water Resources within 24 hours of discovery. [15A NCAC 02B.0506(b)(2)]

26. Upon completion of the project (including any impacts at associated borrow or waste sites), the NCDOT Division Engineer shall complete and return the enclosed "Certification of Completion Form" to notify the NCDWR when all work included in the 401 Certification has been completed. [15A NCAC 02H.0502(f)]

27. Native riparian vegetation (i.e. trees and shrubs native to your geographic region) must be reestablished in the riparian areas within the construction limits of the project by the end of the growing season following completion of construction. [15A NCAC 02B.0506(b)(2)]

28. There shall be no excavation from, or waste disposal into, jurisdictional wetlands or waters associated with this permit without appropriate modification. Should waste or borrow sites, or access roads to waste or borrow sites, be located in wetlands or streams, compensatory mitigation will be required since that is a direct impact from road construction activities. [15A NCAC 02H.0506(b)(3) and (c)(3)]

29. Erosion and sediment control practices must be in full compliance with all specifications governing the proper design, installation and operation and maintenance of such Best Management Practices in order to protect surface waters standards [15A NCAC 02H.0506(b)(3) and (c)(3)]:

- a. The erosion and sediment control measures for the project must be designed, installed, operated, and maintained in accordance with the most recent version of the *North Carolina Sediment and Erosion Control Planning and Design Manual*.
- b. The design, installation, operation, and maintenance of the sediment and erosion control measures must be such that they equal, or exceed, the requirements specified in the most recent version of the *North Carolina Sediment and Erosion Control Manual*. The devices shall be maintained on all construction sites, borrow sites, and waste pile (spoil) projects, including contractor-owned or leased borrow pits associated with the project.
- c. For borrow pit sites, the erosion and sediment control measures must be designed, installed, operated, and maintained in accordance with the most recent version of the *North Carolina Surface Mining Manual*.
- d. The reclamation measures and implementation must comply with the reclamation in accordance with the requirements of the Sedimentation Pollution Control Act.

30. Sediment and erosion control measures shall not be placed in wetlands or surface waters, or within 5 feet of the top of bank, without prior approval from DWR. [15A NCAC 02H.0506(b)(3) and (c)(3)]

31. When applicable, all construction activities shall be performed and maintained in full compliance with G.S. Chapter 113A Article 4 (Sediment and Pollution Control Act of 1973). Regardless of applicability of the Sediment and Pollution Control Act, all projects shall incorporate appropriate Best Management Practices for the control of sediment and erosion so that no violations of state water quality standards, statutes, or rules occur. [15A NCAC 02H .0506{b}(3) and (c)(3) and 15A NCAC 02B .0200]

32. Design, installation, operation, and maintenance of all sediment and erosion control measures shall be equal to or exceed the requirements specified in the most recent version of the *North Carolina Sediment and Erosion Control Manual*, or for linear transportation projects, the *NCDOT Sediment and Erosion Control Manual*.

All devices shall be maintained on all construction sites, borrow sites, and waste pile (spoil) sites, including contractor-owned or leased borrow pits associated with the project. Sufficient materials required for stabilization and/or repair of erosion control measures and stormwater routing and treatment shall be on site at all times.

For borrow pit sites, the erosion and sediment control measures shall be designed, installed, operated, and maintained in accordance with the most recent version of the *North Carolina Surface Mining Manual*. Reclamation measures and implementation shall comply with the reclamation in accordance with the requirements of the Sedimentation Pollution Control Act and the Mining Act of 1971.

For the parts of the project that occur in waters or watersheds classified as WS-11, High Quality Waters (HQW the sedimentation and erosion control designs shall comply with the requirements set forth in 15A NCAC 04B .0124, *Design Standards in Sensitive Watershed*. [15A NCAC 02H.0506(b)(3) and (c)(3); GC 4135]



This approval and its conditions are final and binding unless contested. [G.S. 143-215.5] Please be aware that by having impacted waters without first applying for and securing the issuance of a 401 Water Quality Certification, you have violated Title 15A of the North Carolina Administrative Code (NCAC) 2H .0500. Title 15A NCAC 2H .0500 requires certifications pursuant to Section 401 of the Clean Water Act whenever construction or operation of facilities will result in a discharge into navigable waters, including wetlands, as described in 33 Code of Federal Regulations (CFR) Part 323. It also states any person desiring issuance of the State certification or coverage under a general certification required by Section 401 of the Federal Water Pollution Control Act shall file with the Director of the North Carolina Division of Water Quality. Pursuant to G.S. 143-215.6A, these violations and any future violations are subject to a civil penalty assessment of up to a maximum of \$25,000.00 per day for each violation.

This Certification can be contested as provided in Chapter 150B of the North Carolina General Statutes by filing a Petition for a Contested Case Hearing (Petition) with the North Carolina Office of Administrative Hearings (OAH) **within sixty (60) calendar days**. Requirements for filing a Petition are set forth in Chapter 150B of the North Carolina General Statutes and Title 26 of the North Carolina Administrative Code. Additional information regarding requirements for filing a Petition and Petition forms may be accessed at <http://www.ncoah.com/> or by calling the OAH Clerk's Office at (919) 431-3000.

One (1) copy of the Petition must also be served to the North Carolina Department of Environmental Quality:

William F. Lane, General Counsel  
Department of Environmental Quality  
1601 Mail Service Center  
Raleigh, NC 27699-1601

This letter completes the review of the Division of Water Resources under Section 401 of the Clean Water Act and 15A NCAC 2H.0500. If you have any questions, please contact Rob Ridings at [rob.ridings@ncdenr.gov](mailto:rob.ridings@ncdenr.gov).

Sincerely,

DocuSigned by:

*Amy Chapman*

9C9886312DCD474...

S. Daniel Smith, Director  
Division of Water Resources

Electronic copy only distribution:

James Lastinger, US Army Corps of Engineers, Raleigh Field Office  
Art King, Division 8 Environmental Officer (if WQC not addressed to them)  
Chris Rivenbark, NC Department of Transportation  
File Copy



NCDWR Project No.: \_\_\_\_\_ County: \_\_\_\_\_

Applicant: \_\_\_\_\_

Project Name: \_\_\_\_\_

Date of Issuance of 401 Water Quality Certification: \_\_\_\_\_

**Certificate of Completion**

Upon completion of all work approved within the 401 Water Quality Certification or applicable Buffer Rules, and any subsequent modifications, the applicant is required to return this certificate to the 401 Transportation Permitting Unit, North Carolina Division of Water Resources, 1617 Mail Service Center, Raleigh, NC, 27699-1617. This form may be returned to NCDWR by the applicant, the applicant's authorized agent, or the project engineer. It is not necessary to send certificates from all of these.

***Applicant's Certification***

I, \_\_\_\_\_, hereby state that, to the best of my abilities, due care and diligence was used in the observation of the construction such that the construction was observed to be built within substantial compliance and intent of the 401 Water Quality Certification and Buffer Rules, the approved plans and specifications, and other supporting materials.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

***Agent's Certification***

I, \_\_\_\_\_, hereby state that, to the best of my abilities, due care and diligence was used in the observation of the construction such that the construction was observed to be built within substantial compliance and intent of the 401 Water Quality Certification and Buffer Rules, the approved plans and specifications, and other supporting materials.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

***Engineer's Certification***

\_\_\_\_\_ Partial \_\_\_\_\_ Final

I, \_\_\_\_\_, as a duly registered Professional Engineer in the State of North Carolina, having been authorized to observe (periodically, weekly, full time) the construction of the project for the Permittee hereby state that, to the best of my abilities, due care and diligence was used in the observation of the construction such that the construction was observed to be built within substantial compliance and intent of the 401 Water Quality Certification and Buffer Rules, the approved plans and specifications, and other supporting materials.

Signature \_\_\_\_\_ Registration No. \_\_\_\_\_

Date \_\_\_\_\_



# NEPA Document

## Type III Categorical Exclusion Action Classification Form

STIP Project No.	U-5813
WBS Element	44385.1.3
Federal Project No.	NHP-0064(206)

- A. Project Description: The North Carolina Department of Transportation (NCDOT) in coordination with the Federal Highway Administration (FHWA) proposes to make improvements to U.S. 64 from the Asheboro Bypass to east of I-73/I-74/U.S. 220 in Asheboro, Randolph County. U.S. 64 is classified as a Principal Arterial in the North Carolina Functional Classification System; this section is on the National Highway System.

The proposed project will:

- widen U.S. 64 to a four-lane median divided roadway between the Asheboro Bypass and the existing four-lane median divided section east of the S.R. 1713 (Albemarle Road) bridge overpass;
- replace the Albemarle Road Bridge No. 171 and reconfigure the U.S. 64 interchange with N.C. 49/Albemarle Road;
- convert the I-73/I-74/U.S. 220 interchanges with Albemarle Road and U.S. 64/N.C. 49 to a split diamond interchange; and
- realign S.R. 1446 (Lewallen Road) to the west.

See attached project location map.

- B. Description of Need and Purpose:

### **Project Need**

Traffic capacity and operational improvements are needed to accommodate projected traffic volumes. The base year (2016) no build annual average daily traffic (AADT) estimates for U.S. 64 within the study area range from 10,700 to 31,000 vehicles per day (vpd) from west to east with an estimated 3 percent dual-axle trucks and 6 to 7 percent tractor trailer semi-trucks (TT-ST). The future year (2040) no build AADT estimate shows an increase for U.S. 64 within the study area over the base year estimates, ranging from 13,600 vpd to 34,100 vpd. Truck traffic is estimated to decrease slightly over the base year estimate, with 2 to 3 percent dual-axle trucks and 4 to 5 percent TT-ST.

As part of the traffic analysis, existing crash patterns and rates along the U.S. 64, N.C. 49, and I-73/I-74/U.S. 220 corridors were analyzed within the study area over the five-year period from June 1, 2011 to May 31, 2016. There were 207 crashes reported along the U.S. 64 study area corridor between S.R. 1424 (Westchapel Road)/S.R. 1326 (Stutts Road), west of the Asheboro Bypass, to the Lowes Foods driveway, on U.S. 64/N.C. 49 east of the I-73/I-74/U.S. 220 interchange. The crash rates along U.S. 64 in the project study area are higher than statewide averages for similar facilities

in all categories except for fatal crashes. The section of I-73/I-74/U.S. 220 at the U.S. 64 ramp weave appears to have the highest concentration of crashes.

### **Project Purpose**

The proposed project will increase the capacity and improve mobility and connectivity within the study area. The project will also replace the functionally obsolete Albemarle Road bridge. As a secondary benefit, the project will improve traffic safety by limiting conflict points along the U.S. 64 corridor within the project limits.

The proposed improvements will increase the capacity of U.S. 64 and limit left turning vehicles, allowing for safer travel and improved traffic flow, within the project limits. Considering the rolling terrain and high frequency of intersections and driveways within the study area, access management strategies are appropriate. Further, the superstreet design is compatible with future plans for the U.S. 64 Corridor.

The project will also upgrade the N.C. 49/U.S. 64 interchange, including replacing the Albemarle Road bridge, and the I-73/I-74/U.S. 220 interchange with U.S. 64 and Albemarle Road to meet current design standards and improve mobility, connectivity, and safety in the study area. Conflicting traffic movements will be addressed at the N.C 49 interchange with U.S. 64 improving safety and mobility at the interchange.

The proposed split diamond design for the I-73/I-74/U.S. 220 interchange will improve network connectivity through the construction of paired connecting roadways between U.S. 64 and Albemarle Road. Further, the U.S. 64 ramp weave will be eliminated by the project, improving traffic safety.

C. Categorical Exclusion Action Classification: Type III

D. Proposed Improvements:

The proposed project will widen approximately 1.1 miles of U.S. 64 from a three-lane section to a four-lane median divided roadway between the Asheboro Bypass and the existing four-lane median divided section east of the Albemarle Road Bridge No. 171. The widening will occur to the south of the roadway, primarily within existing right of way. The total project length is 2.26 miles.

The improved roadway will include two 12-foot travel lanes in each direction with a variable-width raised median. Ten-foot shoulders, of which 4 feet will be paved, are proposed between the Asheboro Bypass and S.R. 1323 (Oak Leaf Drive); curb and gutter are proposed east of Oak Leaf Drive to tie into the existing four-lane median divided section east of Albemarle Road. The widening will occur to the south of the existing alignment and tie into the Asheboro Bypass at the project's western limit. The proposed design speed is 60 miles per hour (mph) west of Oak Leaf Drive and 50 mph east of Oak Leaf Drive.

One major hydraulic structure will be extended or replaced by this project. The existing 8-ft by 7-ft reinforced concrete box culvert (RCBC) connected to a 96-inch corrugated metal pipe (CMP) conveys an unnamed tributary to Cedar Fork Creek under U.S. 64, approximately 450 feet southeast of Westside Circle. Based on the current design, the

structure would need to be extended by approximately 70 feet. The preliminary hydraulic recommendation determined the 8-ft by 7-ft RCBC was adequately sized for the drainage area and the 96-inch CMP should be replaced by an 8-ft by 7-ft RCBC.

The project will also replace the Albemarle Road Bridge No. 171 and reconfigure the U.S. 64 interchange with N.C. 49/Albemarle Road. The replacement bridge will be constructed on new alignment adjacent to the northwest side of the existing bridge and provide for three 12-foot travel lanes.

Due to the grade and the Albemarle Road alignment shift, the northbound N.C. 49 to eastbound U.S. 64 slip ramp located southeast of the proposed bridge will be realigned. The existing slip ramp, which also provides access to multiple business (Shana Lane) will be removed. Individual access will be evaluated as the project design is further developed. The slip ramp realignment will require the closure of the existing S.R. 1157 (Lambert Drive) intersection with U.S. 64 and conversion to a cul-de-sac.

Lewallen Road will be realigned 0.8-mile to the west of its current location to maximize the distance between this intersection with the I-73/I-74/U.S. 220 southbound ramp terminal. The existing Lewallen Road would terminate north of Albemarle Road in a cul-de-sac.

The project also proposes to reconfigure the I-73/I-74/U.S. 220 interchanges with Albemarle Road and U.S. 64 to a split diamond configuration. A one-way road would be constructed on either side of I-73/I-74/U.S. 220 between Albemarle Road and U.S. 64/N.C. 49 to connect the on- and off-ramps. New signalized intersections will be installed at the on- and off-ramp intersections with Albemarle Road and U.S. 64/N.C. 49. NCDOT intends to keep the existing Albemarle Road and U.S. 64 bridges over I-73/I-74/U.S. 220.

#### E. Special Project Information:

The project is included in the current (2018-2027) State Transportation Improvement Program (STIP) as Project U-5813 and is programmed for right of way acquisition to begin in Federal Fiscal Year (FFY) 2019. Construction is programmed to begin FFY 2020. A current cost estimate for the project is included in **Table 1**:

*Table 1. Project Cost Estimate*

<b>Item</b>	<b>Cost Estimate</b>
Construction Cost <sup>1</sup>	\$26,100,000
Right of Way Cost <sup>2</sup>	\$11,178,871
Utility Relocation Cost <sup>3</sup>	\$586,460
<b>Total Cost</b>	<b>\$37,865,331</b>
<sup>1</sup> NCDOT, March 2019; <sup>2</sup> NCDOT, January 2019; <sup>3</sup> NCDOT, January 2019	

## **Logical Termini and Independent Utility**

The project's western terminus will be the Asheboro Bypass (R-2536), scheduled to open to traffic in 2020. The Asheboro Bypass will be a four-lane, controlled access highway and is 13.7 miles in length providing an alternate route around the south side of Asheboro. The project's western terminus is also the Asheboro Bypass's western terminus. The project's eastern terminus is the I-73/I-74/U.S. 220 interchange with Albemarle Road and U.S. 64/N.C. 49, providing connections to the north and south. The project will implement a four-lane, median-divided facility within the project limits.

The project termini represent rational end points for a transportation improvement, and the study area is sufficient for the evaluation of environmental impacts associated with the project.

This project will address transportation needs related to capacity, mobility, connectivity, and safety. This project will make improvements to increase capacity and mobility on U.S. 64 and at major intersecting facilities, and address safety concerns, including limiting left turn movements and replacing the Albemarle Road bridge. These needs are specific to the project and will be a reasonable expenditure even if no additional transportation improvements are made in the area.

There are no reasonably foreseeable transportation improvement projects adjacent to the project. The Asheboro Bypass is expected to be open to traffic when this project is let for construction.

## **Alternatives Analysis**

NCDOT evaluated four interchange concept configurations early in project development. The intent was to identify low-impact design options to improve the connectivity of the two closely spaced exits for Albemarle Road and U.S. 64/N.C. 49 on I-73/I-74/U.S. 220. Design concepts that retained the existing Albemarle Road and U.S. 64/N.C. 49 bridges over I-73/I-74/U.S. 220 were preferred, as both bridges were rehabilitated around 2013.

Alternate 1 proposed a modified split diamond interchange, the removal of the on-ramp loops, and maintenance of the off-ramp loops at U.S. 64/N.C. 49. The modification to the conventional split diamond form consisted of aligning the southbound one-way connector road to the existing Lewallen Road alignment. This alternate was dismissed due to the close proximity offset between the I-73/I-74/U.S. 220 off-ramp and the Lewallen Road/proposed southbound connector road on Albemarle Road.

Alternate 2 proposed a split diamond interchange that realigned Lewallen Road to the west to provide adequate spacing with the southbound ramp terminal and the removal of all loop ramps at U.S. 64/N.C. 49. This alternate was carried forward.

Alternate 3 proposed a Diverging Diamond Interchange (DDI) on U.S. 64. It was determined the concept was not appropriate for this location given traffic volumes. Further, concerns about connectivity were raised. Therefore, this alternate was dismissed.

Alternate 4 proposed the removal of the Albemarle Road interchange, extending the ramps to intersect U.S. 64/N.C. 49. This alternate would have required the replacement of the Albemarle Road bridge and multiple re-routing paths and was, for these reasons, dismissed.

The Alternate 2 concept was carried forward. Upon further review, a fifth concept alternative was introduced to assume the traditional split diamond configuration but retain the U.S. 64/N.C. 49 off-ramp loops. The maintenance of the off-ramp loops would provide operational benefits by allowing continuous directional travel and also address the dangerous weave under the U.S. 64/N.C. 49 bridge by removing the on-ramp loops. Further, it was decided that the relocation of Lewallen Road would improve traffic operations on Albemarle Road; thus, NCDOT dropped the modified split diamond interchange from further consideration.

Following conceptual development, Alternate 2 and Alternate 5 were designated Alternatives 1 and 2, respectively: Alternative 1 – split diamond interchange without the loops and Alternative 2 – split diamond interchange with off-ramp loops. Both alternatives were presented at the August 16, 2018 public meeting (see **Public Involvement** section below).

Both alternatives include paired one-way connecting roads constructed between U.S. 64/N.C. 49 and Albemarle Road to extend the I-73/I-74/U.S. 220 on- and off-ramps to a split diamond interchange configuration. New signalized intersections would be installed at the on- and off-ramp terminals with Albemarle Road and U.S. 64/N.C. 49. Both alternatives would:

- remove the on-ramp loops to improve traffic safety by eliminating the short weave conflict under the U.S. 64 bridge, and
- realign Lewallen Road to the west to increase the separation between the intersection with Albemarle Road and the I-73/I-74/U.S. 220 southbound off-ramp intersection.

The interchange alternatives have similar footprints, particularly as they relate to jurisdictional features. As a result, potential impacts to jurisdictional resources associated with each alternative are exactly the same. Maintenance of the northbound I-73/I-74/U.S. 220 off-ramp loop to westbound U.S. 64 in Alternative 2 requires that the one-way connecting road east of the interstate be located further to the east, resulting in direct impacts to the Quality Inn (901 Albemarle Road). Alternative 1 would not have this direct impact.

Following the Local Officials' Informational Meeting and Public Meeting, Alternative 2 – split diamond interchange with off-ramp loops was selected as the Preferred Alternative due to the operational benefits realized by maintaining the off-ramp loops (see attached figure).

### **Interchange Access Request**

An Interstate Access Request (IAR) will be required for the proposed modification of the U.S. 64 and Albemarle Road interchanges with I-73/I-74/U.S. 220. A Draft IAR is currently under review with FHWA; it is expected to be approved in April 2019.

## **Agency Involvement**

The following agencies have been consulted over the course of project development:

- Federal Highway Administration (FHWA)
- U.S. Army Corps of Engineers (USACE)
- U.S. Environmental Protection Agency (USEPA)
- N.C. Division of Water Resources (NCDWR)
- N.C. Wildlife Resources Commission (NCWRC)
- Piedmont-Triad Rural Planning Organization (PTRPO)
- City of Asheboro

## **Public Involvement**

A local officials' informational meeting was held prior to the public meeting on August 16, 2018. The open-house format public meeting was held for the public from 4:00 pm. to 7:00 p.m. A total of 104 people signed in during the meeting. Attendees were invited to take a handout, review maps of the alternatives, speak with the project team, and provide comments on the project. Forty-two (42) written comments were received either during the meeting or by mail or email after the meeting. The comment period ended August 31, 2018.

Of the 42 written comments collected during the comment period, 12 indicated a preference for an interchange design alternative. Three indicated a preference for Alternative 1 and nine indicated a preference for Alternative 2. One indicated a preference for neither alternative. The remainder did not note a specific preference.

NCDOT will continue to coordinate with stakeholders to communicate any changes to the design after the public meeting.

F. Project Impact Criteria Checklists:

<u>Type III Actions</u>		Yes	No
If the proposed improvement is identified as a Type III Class of Action answer all questions. <ul style="list-style-type: none"> <li>• The Categorical Exclusion will require FHWA approval.</li> <li>• If any questions are marked "yes" then additional information will be required for those question in Section G.</li> </ul>			
1	Does the project involve potential effects on species listed with the US Fish and Wildlife Service (USFWS) or National Marine Fisheries (NMFS)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2	Does the project result in impacts subject to the conditions of the Bald and Golden Eagle Protection Act (BGPA)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	Does the project generate substantial controversy or public opposition, for any reason, following appropriate public involvement?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4	Does the project cause disproportionately high and adverse impacts relative to low -income and/or minority populations?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5	Does the project involve substantial residential or commercial displacements or right of way acquisition?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	Does the project include a determination under Section 4(f)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7	Is a project-level analysis for direct, indirect, or cumulative effects required based on the NCDOT community studies screening tool?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8	Has Mobile Source Air Toxics been considered for this project?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
9	Is the project located in anadromous fish spawning waters?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10	Does the project impact waters classified as Outstanding Resource Water (ORW), High Quality Water (HQW), Water Supply Watershed Critical Areas, 303(d) listed impaired water bodies, buffer rules, or Submerged Aquatic Vegetation (SAV)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11	Does the project impact waters of the United States in any of the designated mountain trout streams?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
12	Does the project require a U.S. Army Corps of Engineers (USACE) Individual Section 404 Permit?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
13	Will the project require an easement from a Federal Energy Regulatory Commission (FERC) licensed facility?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
14	Does the project include Section 106 of the National Historic Preservation Act (NHPA) effects determination other than a no effect, including archaeological remains? Are there project commitments identified?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
15	Does the project involve hazardous materials and/or landfills?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
16	Does the project require work encroaching and adversely effecting a regulatory floodway or work affecting the base floodplain (100-year flood) elevations of a water course or lake, pursuant to Executive Order 11988 and 23 CFR 650 subpart A?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
17	Is the project in a Coastal Area Management Act (CAMA) county and substantially affects the coastal zone and/or any Area of Environmental Concern (AEC)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
18	Does the project require a U.S. Coast Guard (USCG) permit?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
19	Does the project involve construction activities in, across, or adjacent to a designated Wild and Scenic River present within the project area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

<u>Type III Actions (continued)</u>		Yes	No
20	Does the project involve Coastal Barrier Resources Act (CBRA) resources?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
21	Does the project impact federal lands (e.g. USFS, USFWS, etc.) or Tribal Lands?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
22	Does the project involve any changes in access control?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
23	Does the project have a permanent adverse effect on local traffic patterns or community cohesiveness?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
24	Will maintenance of traffic cause substantial disruption?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
25	Is the project inconsistent with the STIP and where applicable, the Metropolitan Planning Organization's (MPO's) Transportation Improvement Program (TIP)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
26	Does the project require the acquisition of lands under the protection of Section 6(f) of the Land and Water Conservation Act, the Federal Aid in Fish Restoration Act, the Federal Aid in Wildlife Restoration Act, Tennessee Valley Authority (TVA), Tribal Lands, or other unique areas or special lands that were acquired in fee or easement with public-use money and have deed restrictions or covenants on the property?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
27	Does the project involve Federal Emergency Management Agency (FEMA) buyout properties under the Hazard Mitigation Grant Program (HMGP)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
28	Is the project in an Air Quality Non-attainment or Maintenance Area for a National Ambient Air Quality Standard (Ozone or any other applicable standard)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
29	Is the project considered a Type I under the NCDOT's Noise Policy?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
30	Is there prime or important farmland soil impacted by this project as defined by the Farmland Protection Policy Act (FPPA)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
31	Are there other issues that arose during the project development process that effected the project decision?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

G. Additional Documentation as Required from Section F

**Question 1** – Schweinitz's sunflower is listed as an endangered federally protected species with USFWS' optimal survey window between late August and October. Biologists conducted surveys for Schweinitz's sunflower in areas of suitable habitat on September 27, 2018. No individuals were identified. A review of the N.C. Natural Heritage Program (NCNHP) database records (updated October 2018) indicates no known occurrences of Schweinitz's sunflower within 1.0 mile of the study area. Due to the lack of observed individuals and the lack of known occurrences, it has been determined that the proposed project will have no effect on Schweinitz's sunflower.

Design refinements in November 2018 resulted in proposed improvements extending beyond the project's study area. In consultation with NCDOT-ECA P, these additional areas will be surveyed for the federally endangered Schweinitz's sunflower during the USFWS' optimal survey window and prior to construction let.

The USFWS has developed a programmatic biological opinion (PBO) in conjunction with the FHWA, the USACE, and NCDOT for the northern long-eared bat (NLEB) (*Myotis septentrionalis*) in eastern North Carolina. The PBO covers the entire NCDOT

program in Divisions 1-8, including all NCDOT projects and activities. The programmatic determination for NLEB for the NCDOT program is May Affect, Likely to Adversely Affect. The PBO provides incidental take coverage for NLEB and will ensure compliance with Section 7 of the Endangered Species Act for five years for all NCDOT projects with a federal nexus in Divisions 1-8, which includes Randolph County, where STIP U-5813 is located. This level of incidental take is authorized from the effective date of a final listing determination through April 30, 2020.

**Question 10** – Four sections of the unnamed tributary (UT) to Cedar Fork Creek in the study area (SH, SI-intermittent and SI-perennial, SJ, and SK) are designated as High Quality Waters (WS-II). See the attached Environmental Features Map.

**Question 15** – The NCDOT GeoEnvironmental Section performed a Phase I field investigation on January 8, 2019 for the project to identify geoenvironmental sites of concern. Ten (10) sites of concern were identified within the proposed study area which are expected to have low monetary and scheduling impacts (**Table 2**).

<i>Table 2. GeoEnvironmental Sites of Concern</i>		
<b>Property Name</b>	<b>Property Address</b>	<b>Anticipated Impacts</b>
Lyda's Towing Co.	217 NC HWY 49 S Asheboro, NC 27205	Low
Han-Dee Hugo's #211 (Former Harvey's Tank and Tummy 14)	176 NC HWY 49 S Asheboro, NC 27205	Low
Thomas Tires & Automotive	1191 US HWY 64 W Asheboro, NC 27205	Low
CITGO Econo Mart #2	1140 US-64 W Asheboro, NC 27205	Low
Glazed King Donuts (Possible Former Wiley Minute Market)	6 Albemarle Rd, Asheboro, NC 27205	Low
Asheboro Towing Co. (Former Asheboro Well Co.)	1085 W. Dixie Drive Asheboro, NC 27205	Low
Future Truckers of America (Former Whitley Property)	1095 W Dixie Drive Asheboro, NC 27205	Low
Master BP	925 Albemarle Rd, Asheboro, NC 27203	Low
Byrds BP	776 W Dixie Drive Asheboro, NC 27203	Low
Brueilly Auto Repair Center	1388 Skeen View Road Asheboro, NC 27205	Low

Soil and groundwater assessments will be conducted at each of the impacted geoenvironmental sites of concern prior to right of way acquisition.

**Question 22** – N.C. 49/Albemarle Road has no control of access at the interchange with U.S. 64; this project will convert this interchange to full control of access. Shana Lane will be removed by the project, severing access to three commercial properties

between Mack Road and U.S. 64 along Albemarle Road and Shana Lane. Individual access to these businesses will be evaluated as project design is further developed.

The Draft IAR that evaluates the proposed modifications to the U.S. 64 and Albemarle Road interchanges with I-73/I-74/U.S. 220 is currently under review with FHWA. The IAR is expected to be approved in April 2019.

**Question 29** – The source of this traffic noise information is the STIP Project U-5813 *Traffic Noise Report, US 64 Widening from the Asheboro Bypass to East of the NC 49 Interchange / Replacement of Existing NC 49 Bridge / Reconstruction of the NC 49 & US 64 Interchange / US 64 & I-73/I-74/US 220 Interchange Improvements, Randolph County* prepared by HNTB in March 2019.

### Traffic Noise Impacts

The maximum number of receptors in each project alternative predicted to become impacted by future traffic noise is shown in **Table 3** below. The table includes those receptors expected to experience traffic noise impacts by either approaching or exceeding the FHWA Noise Abatement Criteria (NAC) or by a substantial increase in exterior noise levels as defined in the NCDOT Traffic Noise Policy.

<i>Table 3. Predicted Traffic Noise Impacts for Build Alternative*</i>				
<b>Alternative</b>	<b>Traffic Noise Impacts</b>			
	Residential (NAC B)	Places of Worship/Schools, Parks, etc. (NAC C & D)	Businesses (NAC E)	Total
Build	89	0	0	89

\*Per TNM 2.5 and in accordance with 23 CFR Part 772

### Noise Barriers

A noise barrier evaluation was conducted for this project utilizing the Traffic Noise Model (TNM 2.5) software developed by the FHWA. A total of five potential noise walls were evaluated for the Build Alternative. Three of these noise walls presently meet feasibility and reasonableness criteria (NW3.1, NW 3.2, and NW4). **Table 4** (next page) summarizes the results of the evaluation.

### Summary

A preliminary noise evaluation was performed that identified three noise barriers that preliminarily meet feasibility and reasonableness criteria found in the NCDOT Traffic Noise Policy. A more detailed analysis will be completed during project final design. Noise barriers preliminarily found to be feasible and reasonable during the preliminary noise analysis may not be found to be feasible and reasonable during the final design noise analysis due to changes in proposed project alignment and other design considerations, surrounding land use development, or utility conflicts, among other factors. Conversely, noise barriers that preliminarily were not considered feasible and reasonable may meet the established criteria and be recommended for construction. The evaluation completes the highway traffic noise requirements of Title 23 CFR Part 772.

In accordance with NCDOT Traffic Noise Policy, the Federal/State governments are not responsible for providing noise abatement measures for new development for

which building permits are issued after the Date of Public Knowledge. The Date of Public Knowledge of the proposed highway project will be the approval date of the Categorical Exclusion. NCDOT strongly advocates the planning, design and construction of noise-compatible development and encourage its practice among planners, building officials, developers and others.

*Table 4. Preliminary Noise Barrier Evaluation Results*

<b>Noise Study Area</b>	<b>Noise Barrier Location</b>	<b>Length / Height<sup>2</sup> (ft)</b>	<b>Square Footage</b>	<b>Number of Benefited Receptors</b>	<b>Square Feet per Benefited Receptor / Allowable Square Feet per Benefited Receptor</b>	<b>Preliminarily Feasible and Reasonable (Likely) for Construction<sup>1</sup></b>
NSA 1	NW1 along US 64 westbound west of Westchapel Road	630 / 15	9,264	2	4,632 / 1,500	No
NSA 2	NW2 along southbound Lewallen Road between proposed West Bend United Methodist Church driveway and proposed cul-de-sac	450 / 15	6,318	2	3,159 / 2,000	No
NSA 3	NW3.1 from approximately halfway up the I-73/I-74/U.S. 220 southbound on ramp from US 64 and continues along southbound I-73/I-74/U.S. 220	1,980 / 17	33,183	28	1,185 / 1,500	Yes
NSA 3	NW3.2 along northbound I-73/I-74/U.S. 220 from just south of Dennis Street cul-de-sac and continuing along the northbound off ramp to US 64	2,340 / 17	39,571	35	1,131 / 1,500	Yes
NSA 4	NW4 along I-73/I-74/U.S. 220 northbound on ramp from Albemarle Road and continuing along northbound I-73/I-74/U.S. 220	2,400 / 14	33,136	46	720 / 1,500	Yes

<sup>1</sup> The recommendation for barrier construction is preliminary and subject to change, pending completion of final design and the public involvement process.

<sup>2</sup> Average wall height. Actual wall height at any given location may be higher or lower.

## H. Project Commitments

**Randolph County  
U.S. 64 Widening  
Federal Project No. NHPP-0095(007)73  
WBS No. 44385.1.3  
STIP No. U-5813**

### **Division 8 Construction - High Quality Water**

An Unnamed Tributary to Cedar Fork Creek SIN [13-2-3-3-2-2-(1)] and its tributaries are designated as High Quality Waters. The NCDOT will implement Design Standards in Sensitive Watersheds as appropriate.

### **Project Management Unit - Municipal Agreement - Sidewalks**

NCDOT will continue to coordinate with the City of Asheboro for the inclusion of sidewalks in the proposed project's design. Should sidewalks be pursued, NCDOT will develop a Municipal Agreement (MA) to cost-share with the local municipality.

### **Roadway Design Unit**

NCDOT will provide a depressed island at the western intersection of Westside Drive and U.S. 64 for emergency vehicle access originating from Westside Fire Department (225 Westside Drive). The depressed island will allow left turns for emergency vehicles only from the western intersection of Westside Drive with U.S. 64.

### **Environmental Analysis Unit**

NCDOT will complete a survey for the federally endangered Schweinitz's sunflower one year prior to construction let.

### **Traffic Noise Analysis**

A comprehensive traffic noise abatement design review, in the form of a Design Noise Report, will be conducted as part of the project's final design.

### **GeoEnvironmental Section**

Soil and groundwater assessments will be conducted at each of the impacted geoenvironmental sites of concern prior to right of way acquisition.

I. Categorical Exclusion Approval

STIP Project No.	<u>U-5813</u>
WBS Element	<u>44385.1.3</u>
Federal Project No.	<u>NHP-0064(206)</u>

**Prepared By:**

4/3/2019  
Date


  
Adam Archual, Transportation Planning  
HNTB North Carolina, P.C.

**Prepared For:**

North Carolina Department of Transportation

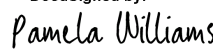
**Reviewed By:**

4/4/2019  
Date

DocuSigned by:  
  
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Allison White, Project Manager  
North Carolina Department of Transportation–Project Management Unit

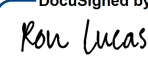
NCDOT certifies that the proposed action qualifies as a Type III Categorical Exclusion.

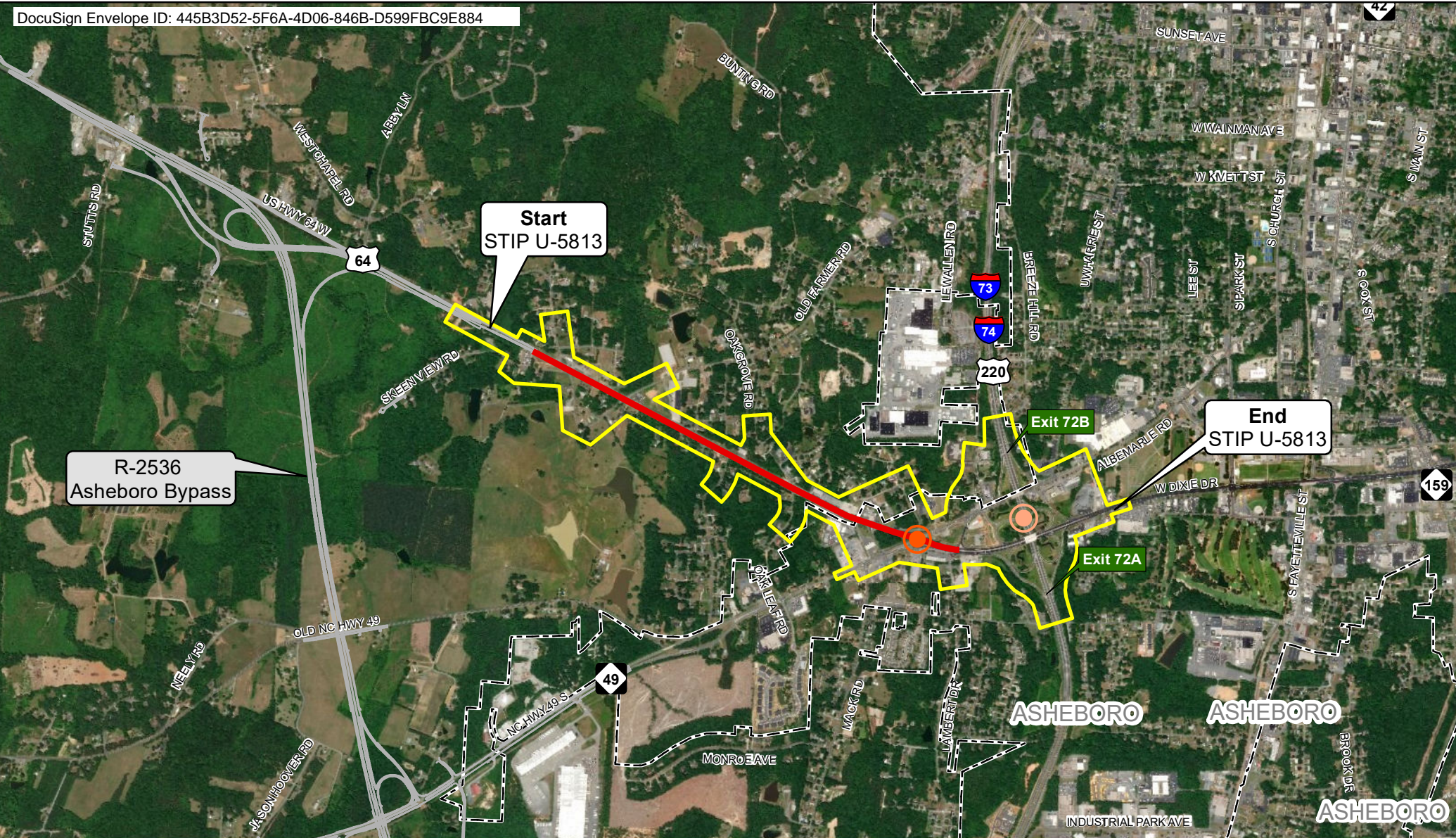
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North Carolina Department of Transportation–Project Management Unit

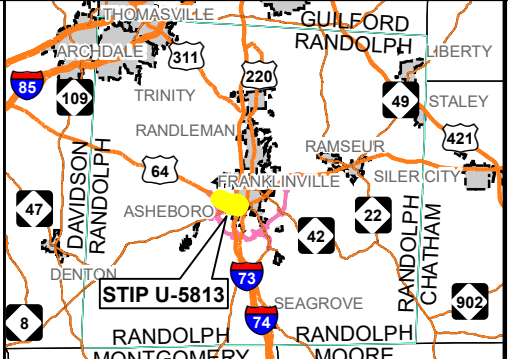
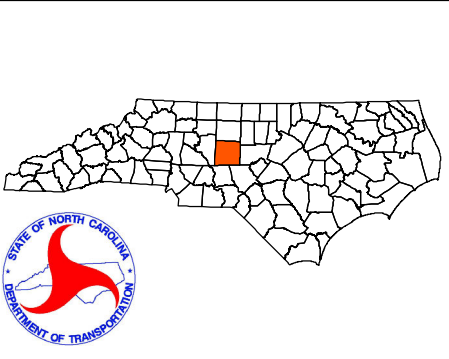
**FHWA Approval:**

4/5/2019  
Date

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



Source: NCDOT, Esri, NC OneMap, Randolph County GIS, HNTB. Credit: HNTB North Carolina, PC | 2018.



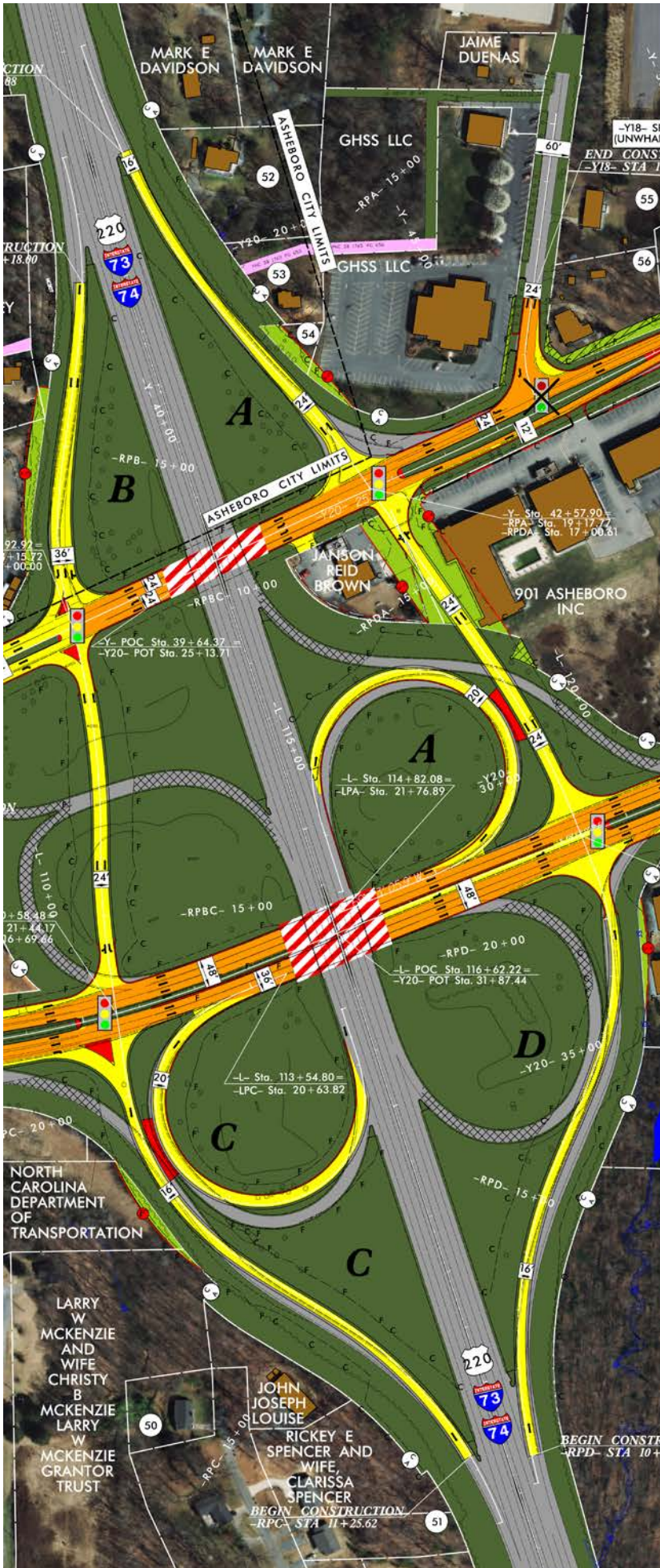
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- US 64 Widening
- US 64/NC 49 Interchange
- I-73/I-74/US 220 Interchange
- Future Asheboro Bypass (R-2536)
- Municipal Boundary

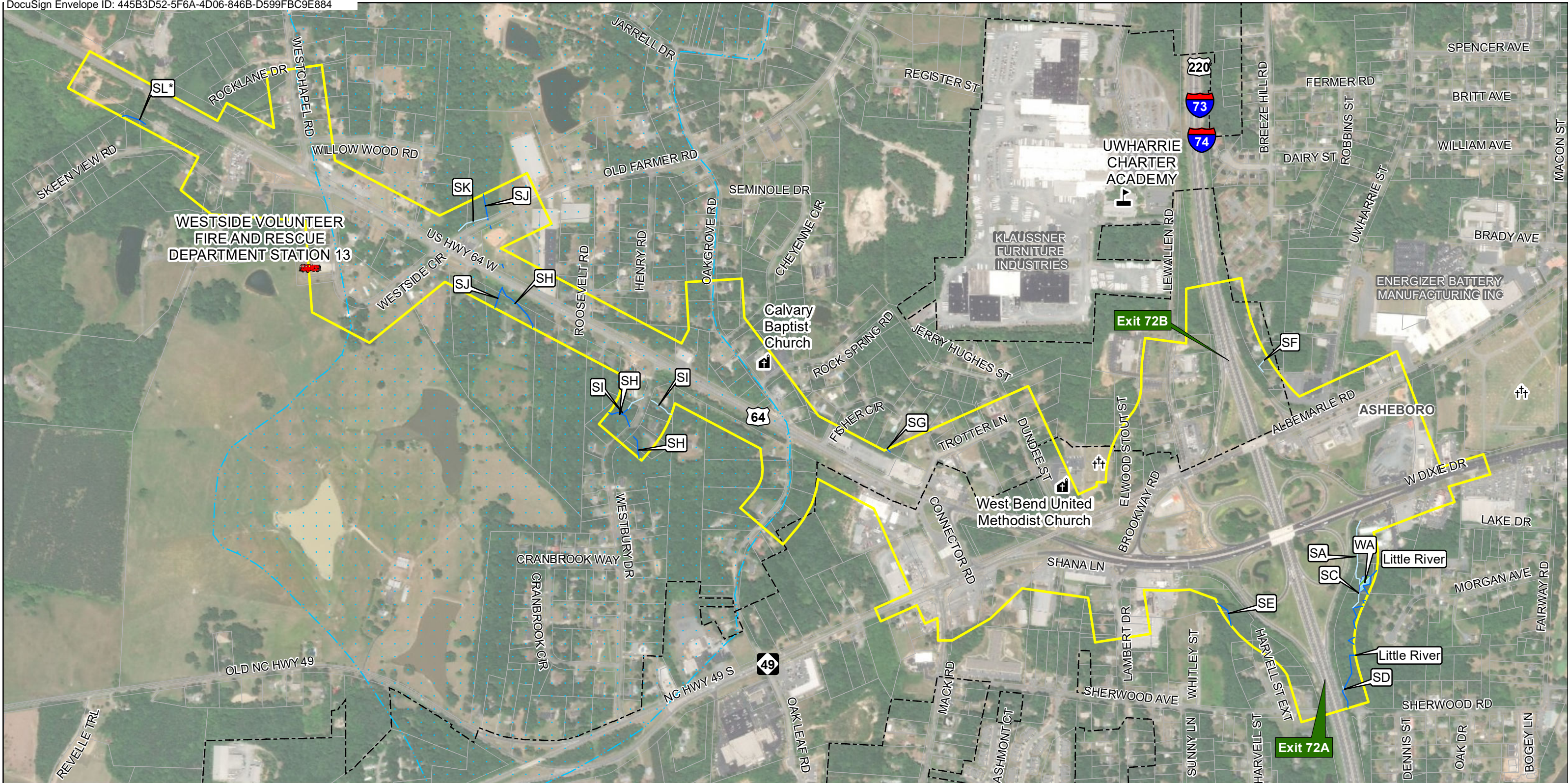
**PROJECT LOCATION MAP**  
**STIP U-5813**  
**WIDEN US 64, ASHEBORO BYPASS**  
**TO NC 49 & RECONSTRUCT THE**  
**US 64/NC 49 INTERCHANGE**  
**RANDOLPH COUNTY**

0 1,000 2,000 Feet

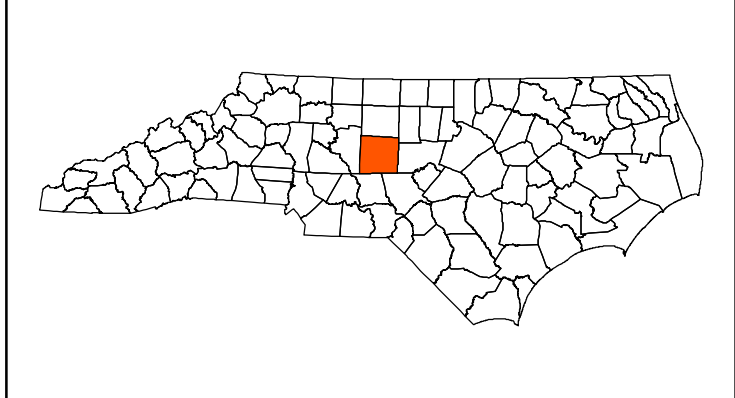
**NORTH**

**PREFERRED ALTERNATIVE**  
**STIP U-5813**  
**WIDEN US 64, ASHEBORO BYPASS**  
**TO NC 49 & RECONSTRUCT THE**  
**US 64/NC 49 INTERCHANGE**  
**RANDOLPH COUNTY**
















Sources: NCDOT, Randolph Co. GIS, NC OneMap, Esri. Credit: HNTB North Carolina, PC, 2019.

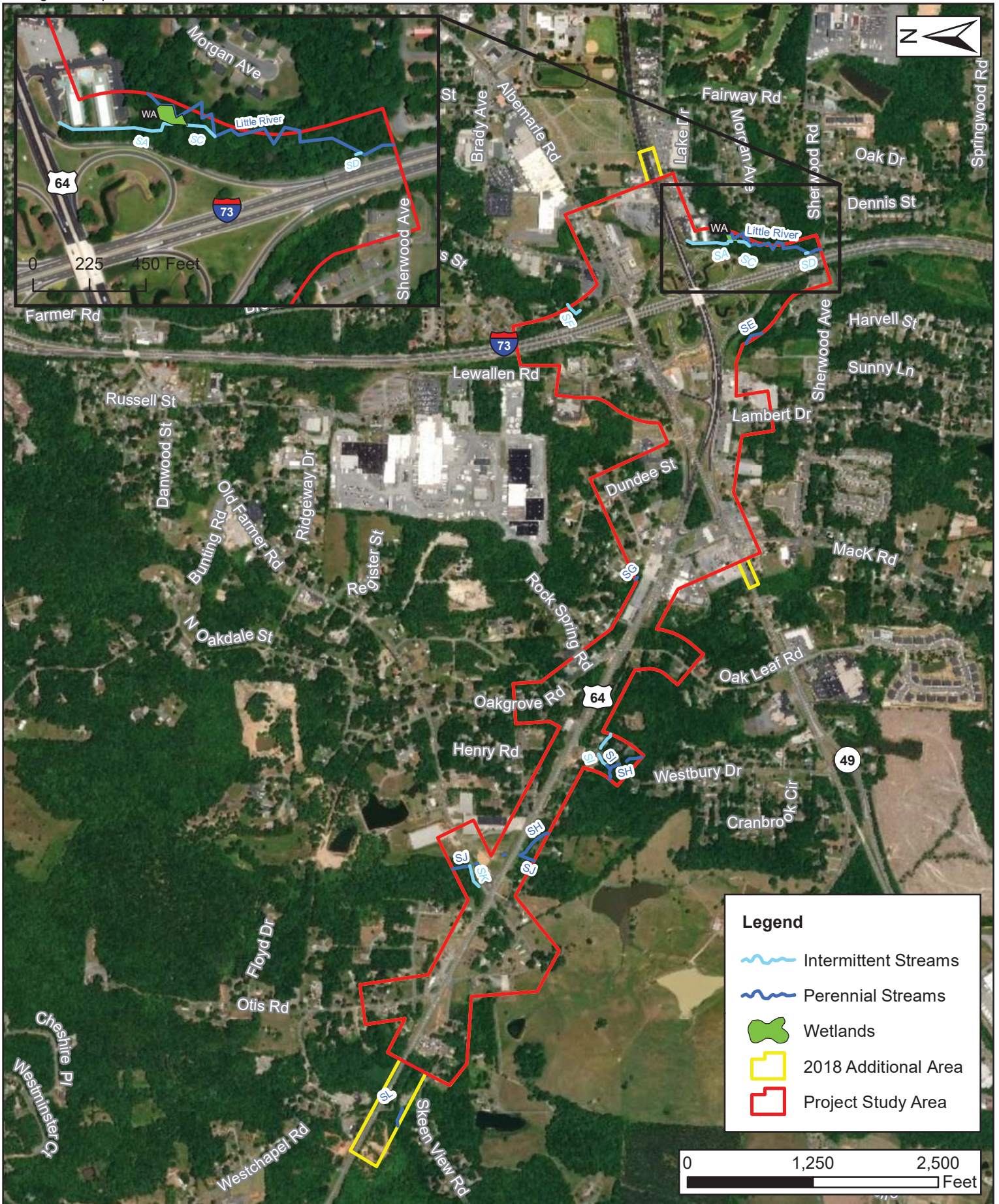


### Legend

- |  |  |   |
|--|--|---|
|  U-5813 Study Area                    |  Water Supply Watershed |  Church      |
|  Field Delineated Stream-Perennial    |  Parcel                 |  Cemetery    |
|  Field Delineated Stream-Intermittent |  Asheboro City Limit    |  School      |
|  Field Delineated Wetland             |  |  Firestation |

### ENVIRONMENTAL FEATURE MAP STIP U-5813 WIDEN US 64, ASHEBORO BYPASS TO NC 49 & RECONSTRUCT THE US 64/NC 49 INTERCHANGE RANDOLPH COUNTY





**Figure 3: Jurisdictional Features Map**  
TIP #U-5813: Additional Area 2018  
Widening of US-64 from Asheboro bypass to NC-49  
Asheboro, Randolph County, NC

17-04-0020



## HISTORIC ARCHITECTURE AND LANDSCAPES NO HISTORIC PROPERTIES PRESENT OR AFFECTED FORM

This form only pertains to Historic Architecture and Landscapes for this project. It is not valid for Archaeological Resources. You must consult separately with the Archaeology Group.

### PROJECT INFORMATION

<b>Project No:</b>	U-5813	<b>County:</b>	Randolph
<b>WBS No.:</b>	44385.1.3	<b>Document Type:</b>	CE
<b>Fed. Aid No:</b>		<b>Funding:</b>	<input type="checkbox"/> State <input checked="" type="checkbox"/> Federal
<b>Federal Permit(s):</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<b>Permit Type(s):</b>	NWP
<b><u>Project Description:</u></b> Widen 1.3 miles of US 64 from the future Asheboro Bypass to the existing US 64 4-lane section. Reconstruct interchange at NC 49, replace NC 49 Bridge over US 64 (Bridge No. 750171). Reconfiguration of the US 64 and Albemarle ramps and loops.			

### SUMMARY OF HISTORIC ARCHITECTURE AND LANDSCAPES REVIEW

- There are no National Register-listed or Study Listed properties within the project's area of potential effects.
- There are no properties less than fifty years old which are considered to meet Criteria Consideration G within the project's area of potential effects.
- There are no properties within the project's area of potential effects.
- There are properties over fifty years old within the area of potential effects, but they do not meet the criteria for listing on the National Register.
- There are no historic properties present or affected by this project. (Attach any notes or documents as needed.)

#### Date of field visit:

#### **Description of review activities, results, and conclusions:**

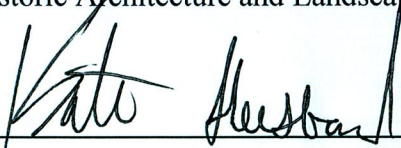
Review of HPO quad maps, HPO GIS information, historic designations roster, and indexes was undertaken on April 11, 2017. Based on this review, there are survey sites and properties over fifty years of age within the APE and a survey was required. In June 2017, architectural historians conducted a preliminary investigation of the APE and completed a building inventory identifying 91 resources over fifty years of age. One property, the West Bend United Methodist Church, (RD0931, 1080 Albemarle Road) warranted further study and all other properties were determined not eligible for National Register listing. An evaluation report was written on the church in November 2017 and it was determined that the church is not eligible for National Register listing. The State Historic Preservation Office concurred with this finding on December 18, 2017. There are no National Register listed or eligible properties present. If design plans change, additional review will be required.

**SUPPORT DOCUMENTATION**

Map(s)     Previous Survey Info.     Photos     Correspondence     Design Plans

**FINDING BY NCDOT ARCHITECTURAL HISTORIAN**

Historic Architecture and Landscapes – **NO HISTORIC PROPERTIES PRESENT OR AFFECTED**

  
\_\_\_\_\_  
NCDOT Architectural Historian

12/10/2017  
\_\_\_\_\_  
Date



17-04-0020

archaeological survey and evaluation, with an emphasis on the southern side of the APE, unless identified as disturbed during the field effort. The survey was conducted on behalf of the North Carolina Department of Transportation (NCDOT).

The archaeological investigation was designed to locate and identify cultural resources within the defined project area and to obtain sufficient information to make recommendations regarding their potential eligibility for listing in the National Register of Historic Places (NRHP). During the survey, Stantec conducted pedestrian survey of the entire APE and systematic subsurface testing in those portions of the APE that appeared intact. Shovel tests were excavated at 30-meter (98.4-foot) intervals in most areas, with a reduction to 15-meter (49.2-foot) intervals in areas exhibiting a greater potential for cultural resources. A total of 128 shovel tests were excavated at 30-meter intervals along one to two transects spaced 30 meters (98.4 feet) apart wherever the ground was accessible and free from disturbance. The entire project area was subject to pedestrian survey. A total of three shovel tests were not excavated, in areas otherwise subjected to survey, due to a concrete lot, standing water, and a fenced in yard with a large dog. Areas subject to pedestrian survey with no systematic subsurface testing were not shovel tested due to slope, drainage, wetlands, road surfaces, underground utilities, concrete parking lots, landscaping, standing structures, subsoil on the surface, and prior disturbance. Fourteen shovel tests were positive for cultural material and 13 radial shovel tests were excavated to determine the bounds of the newly identified cultural resources. Six radial shovel tests were positive for additional cultural material. In addition, surface artifacts were observed and sampled.

Further, NCDOT archaeologists also investigated several minor refinements to the APE. For these, fieldwork was conducted that included pedestrian survey and mapping of three locations that were larger or, in one case, appeared to encroach upon the West Bend United Methodist Church cemetery. Engineering is currently studying opportunities for avoidance of the cemetery.

No previously identified archaeological sites were located within the project area. Six new archaeological sites (31RD1586, 31RD1587, 31RD1588, 31RD1589, 31RD1590, and 31RD1591) were identified during this survey. Sites 31RD1589 and 31RD1591 are both multi-component sites featuring prehistoric lithic scatters of indeterminate temporal affiliation and twentieth century artifact scatters. Site 31RD1587 is a prehistoric lithic scatter dating to the Archaic period. The remaining three sites (31RD1586, 31RD1588, and 31RD1590) represent prehistoric lithic scatters of indeterminate temporal affiliation. Several of these sites appear to be related to quarry activity throughout the APE. No surface or subsurface features were noted. The artifacts were recovered from survey, top soil, and transitional deposits. Stantec recommends Sites 31RD1586, 31RD1587, 31RD1588, 31RD1589, 31RD1590, and 31RD1591 as not eligible for listing to the NRHP under Criterion D; Criteria A through C were not considered applicable to the evaluation of these resources. See report (Sadler and Stewart 2019) for more specific information. No additional archaeological work is recommended for this undertaking.

Since there are no previously recorded or newly documented archaeological sites eligible for listing on the NRHP is known within the APE, a finding of no National Register of Historic Places listed or eligible sites is appropriate.

***The North Carolina Department of Transportation (NCDOT) Archaeology Group reviewed the subject project and determined:***

- There are no National Register listed or eligible ARCHAEOLOGICAL SITES present within the project's area of potential effects. (Attach any notes or documents as needed)
- No subsurface archaeological investigations were required for this project.
- Subsurface investigations did not reveal the presence of any archaeological resources.
- Subsurface investigations did not reveal the presence of any archaeological resources considered eligible for the National Register.
- All identified archaeological sites located within the APE have been considered and all compliance for archaeological resources with Section 106 of the National Historic Preservation Act and GS 121-12(a) has been completed for this project.

17-04-0020

**SUPPORT DOCUMENTATION**

See attached:  Map(s)     Previous Survey Info     Photos     Correspondence

Signed:



**01/23/2019**

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**NCDOT ARCHAEOLOGIST**

**Date**