

# STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

JOSH STEIN

GOVERNOR

DANIEL H. JOHNSON

SECRETARY

October 31, 2025

MEMORANDUM TO: Becca Gallas, P.E.

Division 5 Engineer

FROM: Alan Shapiro, P.E.

NCTA Chief Engineer

Alan Shapiro

NCTA Chief Engineer

Alan Shapiro

SUBJECT: Triangle Expressway Southeast Extension (Complete 540) from NC 55

Bypass in Apex to US 64/264 (I-87) in Knightdale, Wake and Johnston Counties; Federal Aid No. STP-0540(19), STP-0540(20), and STP-0540(21); WBS Nos. 37673.1.TA1, 35516.1.TA1, and 35517.1.TA1;

DocuSigned by:

STIP Project Nos. R-2721, R-2828, and R-2829

Attached are the modified US Army Corps of Engineers (USACE) Phased Section 404 Individual Permit, NC Division of Water Resources (NCDWR) Section 401 Individual Water Quality Certification, Neuse Riparian Buffer Authorization, and Non-404 Jurisdictional Wetlands and Waters Permit for the construction of the Triangle Expressway Southeast Extension (Complete 540) from NC 55 Bypass in Apex to US 64/264 (I-87) in Knightdale, Wake and Johnston Counties. STIP Nos. R-2721, R-2828, and R-2829. The changes are based on the October 28, 2025 request for modification of the permit due to design revisions within the R-2829A project limits along the toe of slope near the bridge end bent over Bushy Branch and the outlet of the box culvert C100. The addition of rock required changes to the approved plans, which in turn altered the proposed impacts to jurisdictional resources. In addition, coordination with Duke Energy, Spectrum, AT&T and MCI/Verizon on utility relocations within the R-2829A project limits has resulted in further plan revisions modifying the proposed impacts to jurisdictional resources. Subject to any requisite permit modifications, all environmental permits have been received for the construction of the final design sections of this project.

A copy of this permit package is posted on the NCDOT website at: https://xfer.services.ncdot.gov/pdea/PermIssued

cc: w/o attachment (see website for attachments)

Mr. Ron Davenport, P.E. Contracts Management

Mr. Clarence Coleman, P.E., FHWA

Mrs. Heather Montague, Division 5

Mr. Mark Craig, P.E., Division 5

Mr. Boyd Tharrington, P.E., Deputy Chief Engineer

Mr. Bill Martin, P.E., Programming and TIP

Mr. Timothy Ritacco, Utilities Unit

Mr. Matt Lauffer, P.E., Hydraulics Unit

Mr. David Snoke, P.E., Structures Management Unit

Mr. Mark Staley, Roadside Environmental

Mr. John Jamison, Environmental Policy Unit

Ms. Beth Harmon, NCDMS

Ms. Deanna Riffey, Natural Environment Unit-Environmental Coordination & Permitting

# **404/401 Permits**



### **DEPARTMENT OF THE ARMY**

### U.S. ARMY CORPS OF ENGINEERS, WILMINGTON DISTRICT RALEIGH FIELD OFFICE 3331 HERITAGE TRADE DRIVE SUITE 105 WAKE FOREST NC 27587

October 31, 2025

Regulatory Program

Alan Shapiro, P.E. Chief Engineer North Carolina Turnpike Authority 1599 Mail Service Center Raleigh, NC 27699-1599

Dear Mr. Shapiro:

Reference the Department of the Army permit issued to the North Carolina Department of Transportation (NCDOT) on October 24, 2019, and subsequently modified, to authorize the discharge of fill material into waters of the United States, for construction of the Triangle Expressway Southeast Extension (Complete 540) from NC 55 Bypass in Apex to US 64/264 (1-87) in Knightdale, Wake and Johnston Counties. Sections included within this permit are R-2721, R-2828, and R-2829.

Also, please reference your October 28, 2025, email, requesting modification of the permit to authorize change of impacts at Permit Sites 3, 5, 9, 12, and 13, for R-2829A. The modifications are necessary for in-field design revisions, including relocation of multiple utilities. The authorized additional impacts for this modification are as described below in Tables 1 & 2 below:

**Table 1: Modified R-2829A Wetland Impacts** 

| Site            | Permanent Fill (ac)                               | Mechanized Clearing (ac)                          | Temporary Fill (ac)                           | Hand Clearing<br>(ac – non 404)               |
|-----------------|---|---|---|---|
| 3<br>(road)     | 0.284<br>(Previously 0.257;<br>Increase of 0.027) | 0.071<br>(Previously 0.098;<br>Decrease of 0.027) |   |   |
| 9<br>(road)     |   | 0.010<br>(Previously 0; Increase<br>of 0.010)     | 0<br>(Previously 0.010;<br>Decrease of 0.010) |   |
| 12<br>(utility) |   |   |   | 0.006<br>(Previously 0;<br>Increase of 0.06)  |
| 13<br>(utility) |   |   |   | 0.032<br>(Previously 0;<br>Increase of 0.032) |

Table 2: Modified R-2829A Stream Impacts

| Site            | Riprap Stabilization to Perennial<br>Stream (linear ft) | Temporary Impact to Perennial Stream (linear ft) |  |  |  |  |
|-----------------|---|--|--|--|--|--|
| 5<br>(road)     | 25<br>(Previously 0. Increase of 25)                    | 71<br>(Previously 96. Decrease of 25)            |  |  |  |  |
| 12<br>(utility) |   | 65<br>(Previously 48. Increase of 17)            |  |  |  |  |

Additional compensatory wetland mitigation is proposed for net permanent wetland impact increase of 0.10 acre. No additional stream impacts requiring mitigation are proposed, as the proposed riprap will be countersunk, and while considered permanent fill, is not a permanent loss of function.

The Corps has completed the evaluation of your request and has determined that it is appropriate and reasonable, and that no public notice is required for this modification. Therefore, the permit is modified as requested and as shown on the enclosed R-2829A Mod Permit Drawings, Sheets 10 - 12, 21 - 23, 31 - 32, and 99 - 103 of 103, last revised 10/20/2025; and R-2829A Mod Utility Permit Drawings, Sheets 1 -10 of 11, last revised 10/20/2025, and Sheet 11 of 11, submitted 10/28/2025.

Additional compensatory mitigation of 0.020 acre wetland credits is required, in accordance with the provisions outlined on the attached Compensatory Mitigation Responsibility Transfer Form.

The special conditions for the permit are also enclosed, and have not changed from the revised Special Conditions provided with the December 13, 2024 modification. The revised permit expiration date remains December 31, 2029.

Should you have any questions, contact Mr. Eric Alsmeyer, via email at <a href="mailto:Eric.C.Alsmeyer@usace.army.mil">Eric.C.Alsmeyer@usace.army.mil</a> or by telephone at (919) 817-1570. Please take a moment to complete our customer satisfaction survey located at <a href="https://regulatory.ops.usace.army.mil/customer-service-survey/">https://regulatory.ops.usace.army.mil/customer-service-survey/</a>.

Sincerely,

M. Scott Jones, PWS

WRDA / Transportation Branch Chief

**USACE** Wilmington District

### **Enclosures**

cc: Jennifer Harris, NC Turnpike Authority (via ext-jhharris1@ncdot.gov)
Deanna Riffey, NCDOT (via driffey@ncdot.gov)

### **Revised SPECIAL CONDITIONS**

Action ID SAW-2009-02240; Complete 540; TIPS R-2721, R-2828, and R-2829

Note: Special Condition 9 was modified on October 28, 2024, and Special Condition 30 was added on December 12, 2024.

- 1. **Work Limits:** All work authorized by this permit shall be performed in strict compliance with the attached permit plans submitted on September 12, 2018, and revised on February 8, 2019, which are a part of this permit. The Permittee shall ensure that the construction design plans for this project do not deviate from the permit plans attached to this authorization. Any modification to the attached permit plans must be approved by the U.S. Army Corps of Engineers (Corps) prior to any active construction in waters or wetlands.
- 2. **Unauthorized Dredge and/or Fill:** Except as authorized by this permit or any U.S. Army Corps of Engineers approved modification to this permit, no excavation, fill, or mechanized land-clearing activities shall take place at any time in the construction or maintenance of this project, within waters or wetlands, or shall any activities take place that cause the degradation of waters or wetlands. There shall be no excavation from, waste disposal into, or degradation of, jurisdictional wetlands or waters associated with this permit without appropriate modification of this permit, including appropriate compensatory mitigation. This prohibition applies to all borrow and waste activities connected with this project. In addition, except as specified in the plans attached to this permit, no excavation, fill or mechanized land-clearing activities shall take place at any time in the construction or maintenance of this project, in such a manner as to impair normal flows and circulation patterns within, into, or out of waters or wetlands or to reduce the reach of waters or wetlands.
- 3. **Permit Distribution:** The Permittee shall require its contractors and/or agents to comply with the terms and conditions of this permit in the construction and maintenance of this project, and shall provide each of its contractors and/or agents associated with the construction or maintenance of this project with a copy of this permit. A copy of this permit, including all conditions and drawings shall be available at the project site during construction and maintenance of this project.
- 4. **Preconstruction Meeting:** The Permittee shall conduct an onsite preconstruction meeting between its representatives, the contractor's representatives and the appropriate U.S. Army Corps of Engineers Project Manager prior to undertaking any work within jurisdictional waters and wetlands to ensure that there is a mutual understanding of all terms and conditions contained within the Department of the Army permit. The Permittee shall schedule the preconstruction meeting for a time frame when the Corps, and NCDWR Project Managers can attend. The Permittee shall invite the Corps, and NCDWR Project Managers a minimum of thirty (30) days in advance of the scheduled meeting in order to provide those individuals with ample opportunity to

schedule and participate in the required meeting. The thirty (30) day requirement can be waived with the concurrence of the Corps.

- 5. **Notification of Construction Commencement and Completion:** The Permittee shall notify the U.S. Army Corps of Engineers in writing prior to beginning the work authorized by this permit and again upon completion of the work authorized by this permit.
- 6. **Reporting Address:** All reports, documentation, and correspondence required by the conditions of this permit shall be submitted to the following: U.S. Army Corps of Engineers, Wilmington District Raleigh Regulatory Field Office, Attn: Eric Alsmeyer, 3331 Heritage Trade Drive, Suite 105, Wake Forest, NC 27587, or eric.c.alsmeyer@usace.army.mil. The Permittee shall reference the following permit number, SAW-2009-02240, on all submittals.
- 7. **Permit Revocation:** The Permittee, upon receipt of a notice of revocation of this permit or upon its expiration before completion of the work will, without expense to the United States and in such time and manner as the Secretary of the Army or his authorized representative may direct, restore the water or wetland to its pre-project condition.
- 8. **Reporting Violations:** Violation of these permit conditions or violation of Section 404 of the Clean Water Act or Section 10 of the Rivers and Harbors Act shall be reported to the Corps in writing and by telephone at: 919.554.4884, extension 23, within 24 hours of the Permittee's discovery of the violation.

### 9. Endangered Species

- 1) The Permittee shall implement all necessary measures to ensure the authorized activity does not kill, injure, capture, harass, or otherwise harm any federally-listed threatened or endangered species, except as authorized by the October 15, 2019 US Fish and Wildlife Service BIOLOGICAL/CONFERENCE OPINION, as modified by the September 30, 2024 ADDENDUM. While accomplishing the authorized work, if the Permittee discovers or observes an injured or dead threatened or endangered species, the U.S. Army Corps of Engineers, Wilmington District Raleigh Field Office, telephone 919.554.4884, extension 23, email to <a href="mailto:eric.c.alsmeyer@usace.army.mil">eric.c.alsmeyer@usace.army.mil</a> will be immediately notified to initiate the required Federal coordination.
- **2) Atlantic Sturgeon:** In order to protect the federally-listed Atlantic sturgeon, no temporary causeways or work bridges will block more than 50% of the Neuse River below its ordinary high water mark, and will be removed at the end of the project's construction.

- 3) DWM Biological Opinion: This Department of the Army permit does not authorize you to take an endangered species, in particular the Dwarf wedgemussel, Alasmidonta heterodon. In order to legally take a listed species, you must have separate authorization under the Endangered Species Act (ESA) (e.g., an ESA Section 10 permit, or a BO under ESA Section 7, with "incidental take" provisions with which you must comply). The attached October 15, 2019 US Fish and Wildlife Service BIOLOGICAL/CONFERENCE OPINION, as modified by the September 30, 2024 ADDENDUM (B/CO-A), contains mandatory terms and conditions to implement the reasonable and prudent measures that are associated with "incidental take" that is also specified in the B/CO-A. Your authorization under this permit is conditional upon your compliance with all of the mandatory terms and conditions associated with incidental take of the attached B/CO-A, 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 permit. The U.S. Fish and Wildlife Service is the appropriate authority to determine compliance with the terms and conditions of its B/CO-A, and with the ESA.
- 4) NLEB Programmatic Biological Opinion: 11. The Wilmington District, Federal Highway Administration, U.S. Fish and Wildlife Service (USFWS), and the North Carolina Department of Transportation (NCDOT) have conducted programmatic Section 7(a)(2) consultation for the Northern long-eared bat (NLEB) for NCDOT projects located in Divisions 1-8. The result of this programmatic consultation is a Programmatic Biological Opinion (PBO) issued by the USFWS titled, "Programmatic Biological Opinion - Revised, NCDOT Program Effects on the Northern Long-eared Bat in Divisions 1-8", dated December 15, 2022. This PBO contains agreed upon conservation measures which would minimize take of NLEB. As noted in the PBO, applicability of these conservation measures varies depending on the location of the project. The USFWS has documented that no reasonable and prudent measures, nor terms and conditions, are necessary or appropriate to minimize the amount or extent of incidental take of NLEB caused by the Action; therefore, the incidental take statement does not provide reasonable and prudent measures for this species. Department of the Army (DA) authorization under general permit or standard permit (Individual Permit) is conditional upon the permittee's compliance with applicable, agreed upon conservations measures of the PBO, which is incorporated by reference in this permit. Failure to comply with the applicable conservation measures, where a take of the NLEB occurs, would constitute an unauthorized take by the permittee, and would also constitute permittee noncompliance with this permit. The USFWS is the appropriate authority to determine compliance with the terms and conditions of its PBO and the ESA. All PBOs can be found on our website at:

https://www.saw.usace.army.mil/Missions/Regulatory-Permit-Program/Agency-Coordination/ESA/.

**5) TCB Programmatic Biological Opinion:** The U.S. Fish and Wildlife Service's (USFWS's) Programmatic Conference Opinion (PCO) titled "NCDOT Program Effects on the Tricolored Bat in Divisions 1-8", dated November 20, 2023, contains

mandatory terms and conditions to implement the reasonable and prudent measures that are associated with "incidental take" that are specified in the PCO. Your authorization under this Corps permit is conditional upon your compliance with all the mandatory terms and conditions associated with incidental take of the PCO, 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 PCO, where a take of the listed species occurs, would constitute an unauthorized take, and it would also constitute non-compliance with your Corps permit. The USFWS is the appropriate authority to determine compliance with the terms and conditions of its PCO, and with the ESA.

10. **Maintain Flows and Circulation Patterns of Waters:** Except as specified in the plans attached to this permit, no excavation, fill or mechanized land-clearing activities shall take place at any time in the construction or maintenance of this project, in such a manner as to impair normal flows and circulation patterns within waters or wetlands or to reduce the reach of waters and/or wetlands.

### 11. Sediment and Erosion Control:

- 1) During the clearing phase of the project, heavy equipment shall not be operated in surface waters or stream channels. Temporary stream crossings will be used to access the opposite sides of stream channels. All temporary diversion channels and stream crossings will be constructed of non-erodible materials. Grubbing of riparian vegetation will not occur until immediately before construction begins on a given segment of stream channel.
- 2) No fill or excavation impacts for the purposes of sedimentation and erosion control shall occur within jurisdictional waters, including wetlands, unless the impacts are included on the plan drawings and specifically authorized by this permit. This includes, but is not limited to, sediment control fences and other barriers intended to catch sediment losses.
- 3) The Permittee shall remove all sediment and erosion control measures placed in waters and/or wetlands, and shall restore natural grades on those areas, prior to project completion.
- 4) The Permittee shall use appropriate sediment and erosion control practices which equal or exceed those outlined in the most recent version of the "North Carolina Sediment and Erosion Control Planning and Design Manual" to ensure compliance with the appropriate turbidity water quality standard. Erosion and sediment control practices shall be in full compliance with all specifications governing the proper design, installation and operation and maintenance of such Best Management Practices in order to ensure compliance with the appropriate turbidity water quality standards. This shall include, but is not limited to, the immediate installation of silt fencing or similar appropriate devices around all areas subject to soil disturbance or the movement of earthen fill, and the immediate stabilization of all disturbed areas. Additionally, the

project shall remain in full compliance with all aspects of the Sedimentation Pollution Control Act of 1973 (North Carolina General Statutes Chapter 113A Article 4). Adequate sedimentation and erosion control measures shall be implemented prior to any ground disturbing activities to minimize impacts to downstream aquatic resources. These measures shall be inspected and maintained regularly, especially following rainfall events. All fill material shall be adequately stabilized at the earliest practicable date to prevent sediment from entering into adjacent waters or wetlands.

- 12. **Clean Fill:** The Permittee shall use only clean fill material for this project. The fill material shall be free of items such as trash, construction debris, metal and plastic products, and concrete block with exposed metal reinforcement bars. Soils used for fill shall not be contaminated with any toxic substance in concentrations governed by Section 307 of the Clean Water Act. Unless otherwise authorized by this permit, all fill material placed in waters or wetlands shall be generated from an upland source.
- 13. **Water Contamination:** All mechanized equipment shall be regularly inspected and maintained to prevent contamination of waters and wetlands from fuels, lubricants, hydraulic fluids, or other toxic materials. In the event of a spill of petroleum products or any other hazardous waste, the Permittee shall immediately report it to the N.C. Division of Water Quality at (919) 733-3300 or (800) 858-0368 and provisions of the North Carolina Oil Pollution and Hazardous Substances Control Act shall be followed.

### **ANADROMOUS FISH / AQUATIC LIFE**

- 14. **Aquatic Life Movement:** No activity may substantially disrupt the necessary life cycle movements of those species of aquatic life indigenous to the waterbody, including those species that normally migrate through the area. All discharges of dredged or fill material within waters of the United States shall be designed and constructed to maintain low flows to sustain the movement of aquatic species.
- 15. **Prohibitions on Concrete:** The Permittee shall take measures necessary to prevent live or fresh concrete, including bags of uncured concrete, from coming into contact with any water in or entering into waters of the United States. Water inside coffer dams or casings that has been in contact with concrete shall only be returned to waters of the United States when it no longer poses a threat to aquatic organisms (concrete is set and cured).

### COMPENSATORY MITIGATION

16. 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.

### **CULTURAL RESOURCES**

**17. Historic Properties (MOA):** The Permittee shall fully implement the Memorandum of Agreement between the Permittee, the North Carolina State Historic Preservation Officer and the U.S. Army Corps of Engineers, Wilmington District, dated last signed 3/11/2018, which is incorporated herein by reference.

### **CULVERTS**

- **18.** Unless otherwise requested in the application and depicted on the approved permit plans, culverts greater than 48 inches in diameter shall be buried at least one foot below the bed of the stream. Culverts 48 inches in diameter and less shall be buried or placed on the stream bed as practicable and appropriate to maintain aquatic passage, and every effort shall be made to maintain existing channel slope. The bottom of the culvert shall be placed at a depth below the natural stream bottom to provide for passage during drought or low flow conditions. Culverts shall be designed and constructed in a manner that minimizes destabilization and head cutting.
- 19. Measures shall be included in the culvert construction/installation that will promote the safe passage of fish and other aquatic organisms. The dimension, pattern, and profile of the stream above and below a culvert or pipe shall not be modified by widening the stream channel or by reducing the depth of the stream in connection with the construction activity. The width, height, and gradient of a proposed opening shall be such as to pass the average historical low flow and spring flow without adversely altering flow velocity. Spring flow should be determined from gauge data, if available. In the absence of such data, bankfull flow can be used as a comparable level.
- **20.** The Permittee shall implement all reasonable and practicable measures to ensure that equipment, structures, fill pads, work, and operations associated with this project do not adversely affect upstream and/or downstream reaches. Adverse effects include, but are not limited to, channel instability, flooding, and/or stream bank erosion. The Permittee shall routinely monitor for these effects, cease all work when detected, take initial corrective measures to correct actively eroding areas, and notify this office immediately. Permanent corrective measures may require additional authorization by the U.S. Army Corps of Engineers.
- **21.** Culverts placed within wetlands must be installed in a manner that does not restrict the flows and circulation patterns of waters of the United States. Culverts placed across wetland fills purely for the purposes of equalizing surface water shall not be buried, but the culverts must be of adequate size and/or number to ensure unrestricted transmission of water.

### PONDS

**22.** Sediment Sluicing: The release of sediments from ponds (sluicing) is not authorized by this permit. The Permittee shall take all measures necessary to control any bottom

sediments that may be sluiced during the drainage of pond(s) on the project site.

### **UTILITY LINES**

- 23. Temporary Impacts Restoration Measures: Within thirty (30) days of the date of completing the authorized work, the Permittee shall remove all temporary fills in waters of the United States and restore the affected areas to pre-construction contours and elevations. The affected areas shall be re-vegetated with native, non-invasive vegetation as necessary to minimize erosion and ensure site stability. In wetland areas where pipeline installation via trenching is authorized, wetland topsoil shall be segregated from the underlying subsoil, and the top 6 to 12 inches of the trench shall be backfilled with topsoil from the trench.
- **24.** Cleared wetland areas shall be re-vegetated with a wetland seed mix or a mix of native woody species. Fescue grass or any invasive species such as *Lespedeza* spp., shall not be used within the wetland areas.
- **25.** Prior to construction within any jurisdictional areas, the Permittee shall correctly install silt fencing (with or without safety fencing) parallel with the utility line corridor, on both sides of the jurisdictional crossing. This barrier is to serve both as an erosion control measure and a visual identifier of the limits of construction within any jurisdictional area. The Permittee shall maintain the fencing, at minimum, until the wetlands have re-vegetated and stabilized.
- **26. Hydraulic Fracturing (Fracking):** When directional boring or horizontal directional drilling (HDD) under waters of the United States, including wetlands, the Permittee shall closely monitor the project for hydraulic fracturing or "fracking" and material from the drilling operation leaching to the surface and into jurisdictional areas. Any discharge from fracking or leaching into waters of the United States, including wetlands, shall be reported to U.S. Army Corps of Engineers, Wilmington District Raleigh Field Office, telephone 919.554.4884, extension 23, email to eric.c.alsmeyer@usace.army.mil within 48 hours. Restoration and/or mitigation may be required as a result of any unintended discharges.

### NCDOT STANDARD PERMIT CONDITIONS

- **27. Phased Permit and Mitigation:** This permit only authorizes work on Sections A and B of TIP R-2721. Construction on Sections of TIP, R-2828 and R-2829 shall not commence until all the following occur:
- (a) final design has been completed for those sections and submitted to the U.S. Army Corps of Engineers (Corps); (b) the Permittee has minimized impacts to waters and wetlands to the maximum extent practicable and the Corps concurs with this assessment through standard Merger 4B and 4C meetings; (c) any modification to the plans have been approved by the Corps in writing; and (d) a final compensatory mitigation plan for the relevant TIP project has been submitted by the Permittee and approved by the Corps.

- 28. **Temporary Fills:** Within thirty (30) days of the date of completing the authorized work, the Permittee shall remove all temporary fills in waters of the United States and restore the affected areas to pre-construction contours and elevations. The affected areas shall be re-vegetated with native, non-invasive vegetation as necessary to minimize erosion and ensure site stability.
- 29. Borrow and Waste: To ensure that all borrow and waste activities occur on high ground and do not result in the degradation of adjacent waters and wetlands, except as authorized by this permit, the Permittee shall require its contractors and/or agents to identify all areas to be used as borrow and/or waste sites associated with this project. The Permittee shall provide the U.S. Army Corps of Engineers with appropriate maps indicating the locations of proposed borrow and/or waste sites as soon as such information is available. The Permittee shall submit to the Corps site-specific information needed to ensure that borrow and/or waste sites comply with all applicable Federal requirements, to include compliance with the Endangered Species Act and the National Historic Preservation Act, such as surveys or correspondence with agencies (e.g., the USFWS, the NC-HPO, etc.). The required information shall also include the location of all aquatic features, if any, out to a distance of 400 feet beyond the nearest boundary of the site. The Permittee shall not approve any borrow and/or waste sites before receiving written confirmation from the Corps that the proposed site meets all Federal requirements, whether or not waters of the U.S., including wetlands, are located in the proposed borrow and/or waste site. All delineations of aquatic sites on borrow and/or waste sites shall be verified by the U.S. Army Corps of Engineers and shown on the approved reclamation plans. The Permittee shall ensure that all borrow and/or waste sites comply with Special Condition 2 of this permit. Additionally, the Permittee shall produce and maintain documentation of all borrow and waste sites associated with this project. This documentation will include data regarding soils, vegetation, hydrology, any delineation(s) of aquatic sites, and any jurisdictional determinations made by the Corps to clearly demonstrate compliance with Special Condition 2. All information will be available to the U.S. Army Corps of Engineers upon request. The Permittee shall require its contractors to complete and execute reclamation plans for each borrow and/ or waste site and provide written documentation that the reclamation plans have been implemented and all work is completed. This documentation will be provided to the U.S. Army Corps of Engineers within 30 days of the completion of the reclamation work.
- 30. **Boater Safety Plan:** The permittee shall implement the *NEUSE RIVER & NEUSE RIVER GREENWAY TRAIL USER SAFETY PLAN*, attached, submitted 9/16/2024, which would mitigate the impacts to personal watercraft use of this portion of the Neuse River by providing safety signage, buoys, ring buoys, and designated portage routes during construction of bridge spans over the Neuse.









NC 540 Triangle Expressway Southeast Extension (R-2829B) from south of SR 2542 (Rock Quarry Road) to I-87 / US 64 / US 264

### **Neuse River and Neuse River Greenway Trail Safety Plan**

The R-2829B project includes construction activities at, across and above the Neuse River and the existing Neuse River Greenway Trail. This plan provides details of the safety measures to be incorporated into the construction operations to ensure that users of both the Neuse River and the Neuse River Greenway Trail are informed of ongoing construction hazards and are protected from construction activities while passing through the construction area.

### General Safety Procedures and Precautions:

Throughout the duration of construction, the Flatiron-Fred Smith JV will have the following measures in place for both the Neuse River and the Neuse River Greenway Trail:

- Flatiron-Fred Smith JV will comply with all Contract and RFP requirements while implementing this safety plan.
- As required per Division One of the NCDOT Standard Specifications Section 108-3, modified by the RFP, Flatiron-Fred Smith JV will provide a Site Specific Safety Plan (SSSP) prior to starting any work. The SSSP with spill control and response plan will be provided to all on-site staff and shall include details on spill prevention and cleanup, marine operations, and emergency/crisis management.
- This plan shall be reviewed annually, at a minimum, by Flatiron-Fred Smith JV and NCDOT to determine if any adjustments need to be made to improve the functionality of the plan or address any changes on-site.
- Regular safety inspections of all equipment will be performed monthly to ensure everything is in proper condition and working order.
- Flatiron-Fred Smith JV will have monitors and/or flaggers to direct river and greenway users away from active or hazardous construction areas and activities.
- Unless work is being performed outside of the allowable public use of the greenway (dawn to dusk), if an overhead operation is ongoing without a greenway trail detour or river user diversion in place, Flatiron-Fred Smith JV will have monitors / flaggers on each side of the construction zone to stop construction work while users pass beneath an overhead operation.

The greenway and river traffic will be shifted to the proposed detour / portage routes when any unprotected overhead work is ongoing in an area. When the new bridge girders are in place, the stay in place decking is installed, and the overhangs with plywood protection are installed, this will prevent materials from falling onto the active portions of the greenway trail or Neuse River.







 In the event of a storm being forecast in the area that could result in localized flooding or overtopping the temporary access causeway, Flatiron-Fred Smith JV will remove all materials and equipment in advance of the storm.

### Neuse River Specific Safety Precautions:

Paddlers or other users of the Neuse River waterway will be protected from construction operations as follows:

- Advanced warning Signage will be installed and maintained by Flatiron-Fred Smith JV at the following canoe / kayak access points upstream and downstream of the project location:
  - o Lower Milburnie Dam (1101 Old Milburnie Rd, Raleigh, NC 27604)
  - Anderson Point Boat Access (20 Anderson Point Drive, Raleigh, NC 27610)
  - o Poole Road Boat Access (6501 Poole Rd, Raleigh, NC 27610)
  - o Mial Plantation Road Access (near 6008 Mial Plantation Rd, Raleigh, NC 27610)
  - Hwy 42 Boat Launch (2075 NC Highway 42 E, Clayton, NC)
  - o Town of Smithfield Boat Ramp (200 N Front St, Smithfield, NC 27577)

The signs will be similar to the image below:

## **NOTICE**

NCTA IS CONSTRUCTING
NC 540 BRIDGES OVER THE
NEUSE RIVER JUST SOUTH OF
AUBURN KNIGHTDALE RD

A SAFE PASSAGE LANE IS BEING
MAINTAINED THROUGH THE
CONSTRUCTION ZONE

THE LAST PULL-OUT IS LOCATED AT POOLE RD BOAT ACCESS

PLEASE FOLLOW ALL SAFETY GUIDANCE

MORE INFORMATION CAN BE FOUND AT:
WWW.NCDOT.GOV/COMPLETE540
1-800-554-7849
COMPLETE540@NCDOT.GOV

 Ring Buoys will be staged on each side of the river shoreline both immediately upstream and downstream of the construction zone for emergency rescue operations. Each ring







buoy will be equipped with a minimum of 100 feet of rescue line and a throw bag, mounted on a 4x4 timber post.

- Buoys and signage will be installed in the river to direct river users through the safe portion of the waterway (see sketch NEUSE-01).
- The buoys and signage will provide a safe perimeter around the proposed construction access causeway on the northern bank of the river to warn against unauthorized access to the causeway and work area by river users.
- Signage will direct river users if the river passage is open or closed. The passage will be open when it is safe to pass under the proposed bridge construction and there are no overhead activities ongoing. The passage will be closed and require canoe portage when active overhead operations such as bridge girder erection, stay in place form placement or overhang protection installation and removal. A portage route will be cleared and signed to allow for safe portage around the active construction. The portage route will be chosen to minimize the height of the bank to traverse during normal water elevations. In addition, during these closed times, Flatiron-Fred Smith JV will have monitors and flaggers further directing river users of the proper portage route.
- The Flatiron-Fred Smith JV will communicate to NCDOT / NCTA Communications and Marketing Department (CAMD) at least forty-five (45) days in advance of any construction activities that impact use of the Neuse River.

### Neuse River Greenway Trail Specific Safety Precautions:

Users of the Neuse River Greenway Trail will be protected from construction operations as follows:

- The Flatiron-Fred Smith JV shall inform NCDOT Division 5 and NCTA at least forty-five (45) days in advance of any construction activities that impact use of the Neuse River Greenway Trail.
- A temporary trail detour route will be constructed and used to divert trail traffic away from active overhead construction activities (see sketches NEUSE-02 through NEUSE-04).
- Prior to beginning construction, orange safety fence will be placed on both sides of the
  existing greenway trail to keep greenway users on the trail and away from adjacent
  construction activities and equipment. The limits of the orange safety fence are shown
  on Figure NEUSE-02 and shall be turned 90 degrees and tied to the nearest tree to
  "funnel" users between the runs of safety fence. Orange safety fence to be maintained
  and/or reinstalled at the end of each shift where trail is being used for construction
  access.
- During the first phase of the bridge construction, trail traffic can be maintained on the
  existing trail while Bridge Spans C through I are completed. The temporary greenway
  trail alignment and a portion of the permanent greenway alignment revisions will be
  constructed during this phase of bridge construction. Paved trail surface to be
  maintained throughout this phase.

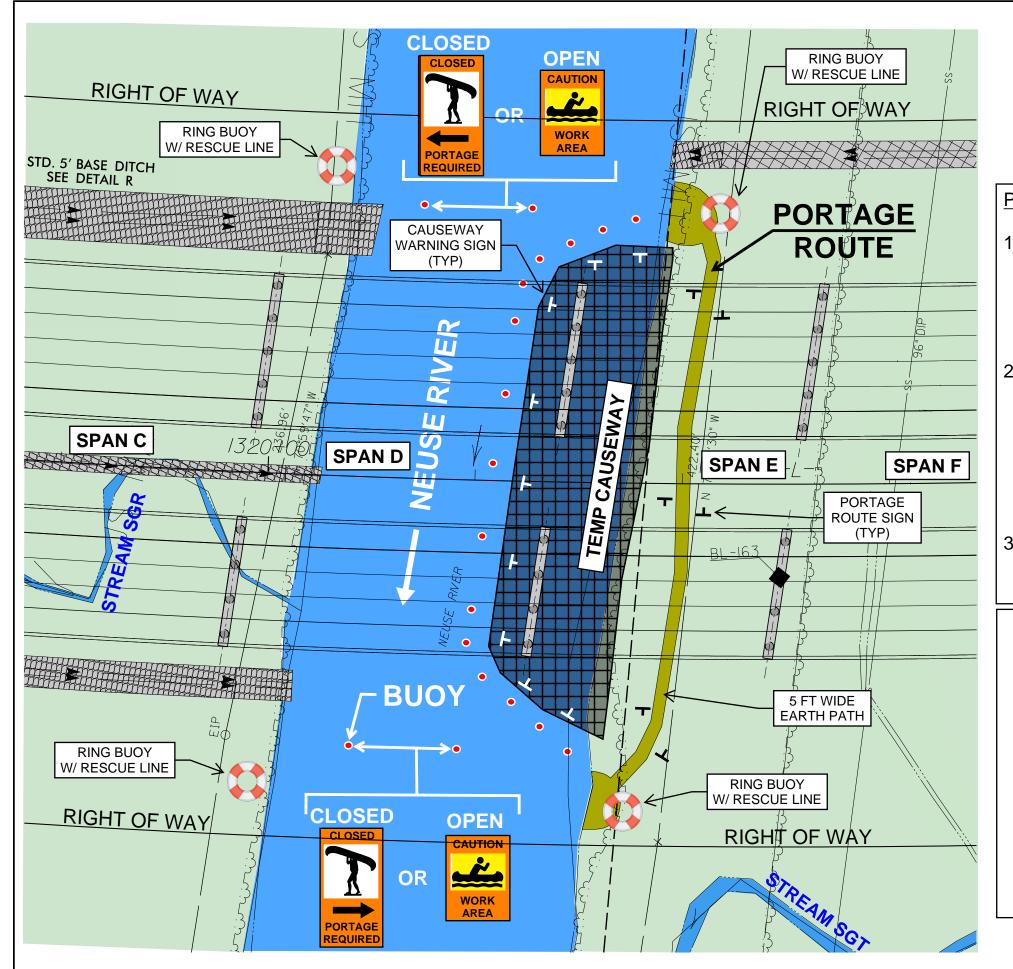




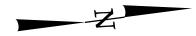


- Once Span C of the bridge is completed, the orange safety fencing will be added to the temporary and permanent trail alignment and greenway trail traffic will be switched to the temporary detour route under completed Span C. Once greenway trail traffic is switched under Span C, construction can commence on Spans A and B as well as the remainder of the permanent greenway alignment revisions.
- Bridge overhang protection removal over the Neuse River Greenway Trail will be done
  when the trail is closed at night between dusk and dawn.
- With the greenway traffic relocated, the construction of Bridge Spans A and B can be completed and the greenway trail traffic will be shifted to the revised permanent greenway alignment. Orange safety fence is to be placed and maintained along the revised permanent greenway trail for the remainder of the construction contract as well as any portion of the existing trail that remains in use through the construction area.
- The Flatiron-Fred Smith JV shall coordinate installation and removal of greenway protective measures with NCDOT Division 5 and NCTA when crossing the trail. No obstructions that impede the use of the trail shall be left in place after crossing the trail.

Details of the proposed user routing for both the Neuse River and the Neuse River Greenway Trail are provided on the following Figures NEUSE-01 through NEUSE-04.







### PADDLE ACCESS:

- 1. PRIOR TO CONSTRUCTION OF BRIDGE SPAN D, PADDLER TRAFFIC WILL BE ROUTED THROUGH THE SOUTHERN SIDE OF THE RIVER USING FLOATING BUOYS AND CAUTION SIGNAGE AS SHOWN BELOW.
- 2. DURING LIFTING OF SPAN D BEAMS OR OTHER OVERHEAD OPERATIONS FOR SPAN D, THE RIVER WILL BE CLOSED TO PADDLERS USING THE "PORTAGE REQUIRED" SIGNAGE. NO CONSTRUCTION ACTIVITY IN SPAN E IS ALLOWED WHEN THE PORTAGE ROUTE IS IN USE.
- 3. PLACE RING BUOYS FOR EMERGENCY USE AT EACH PORTAGE LANDING AND ON OPPOSITE SIDE OF RIVER..

### **CAUTION SIGNAGE:**



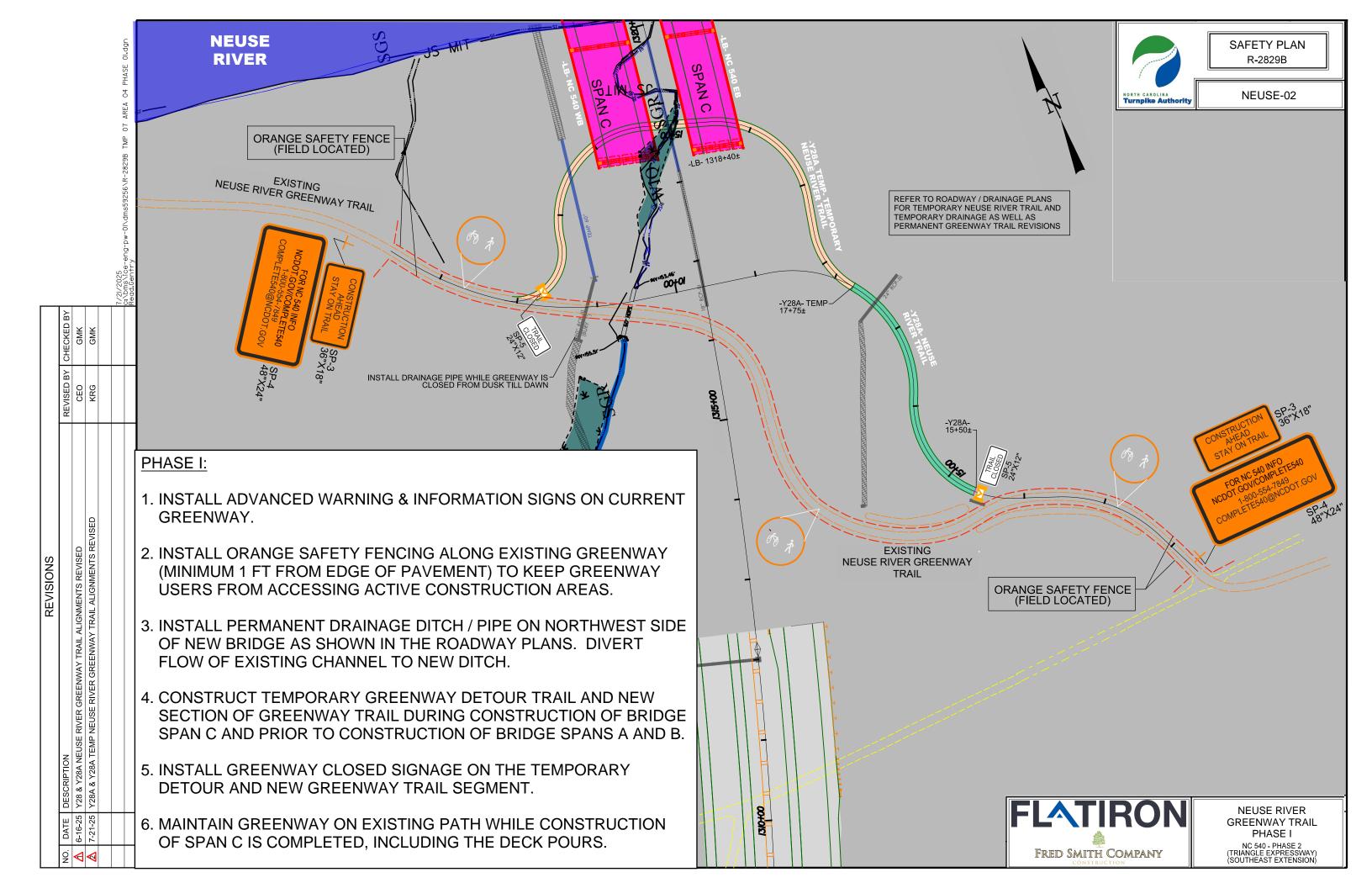
**WARNING SIGN** 

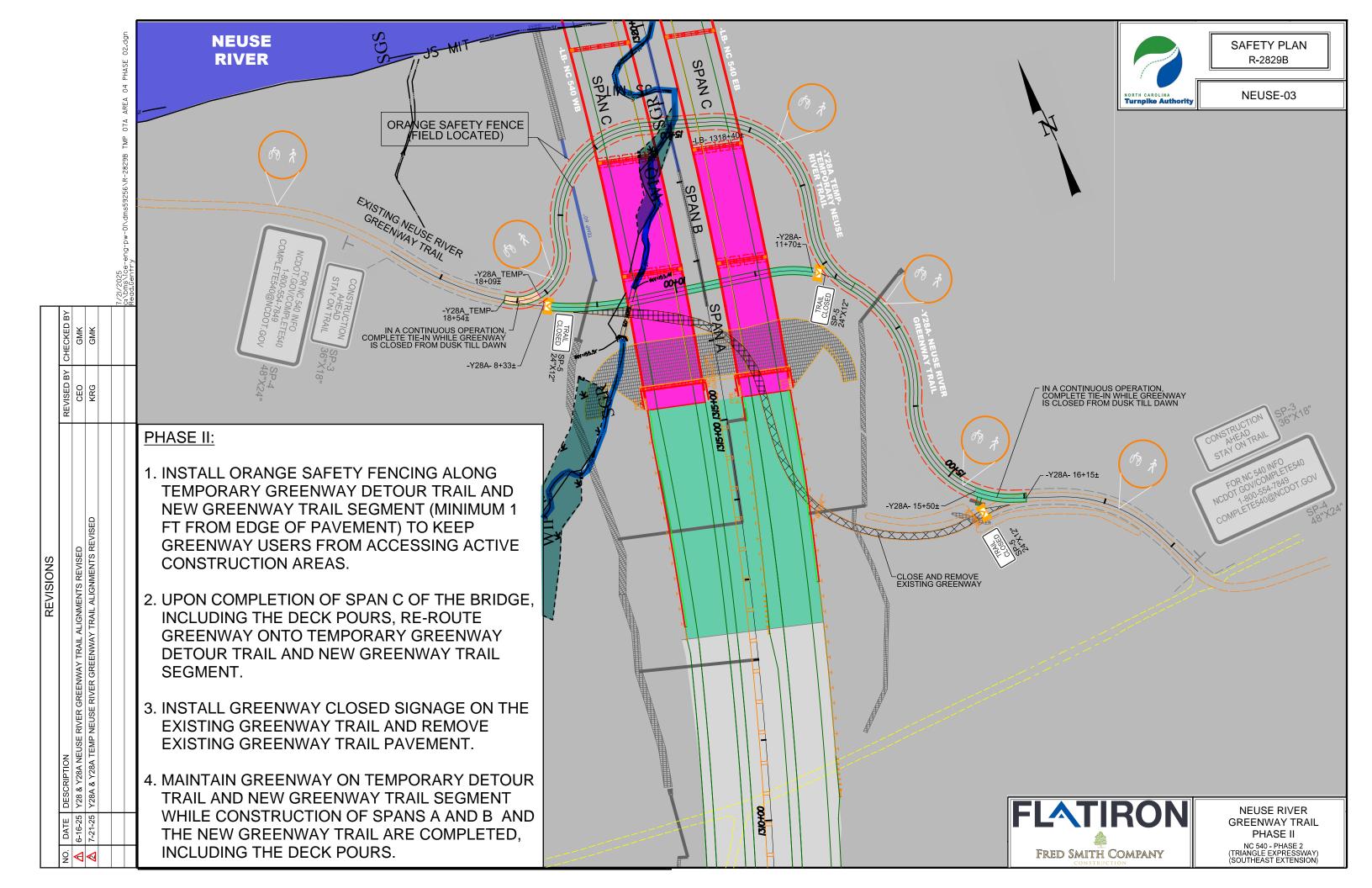


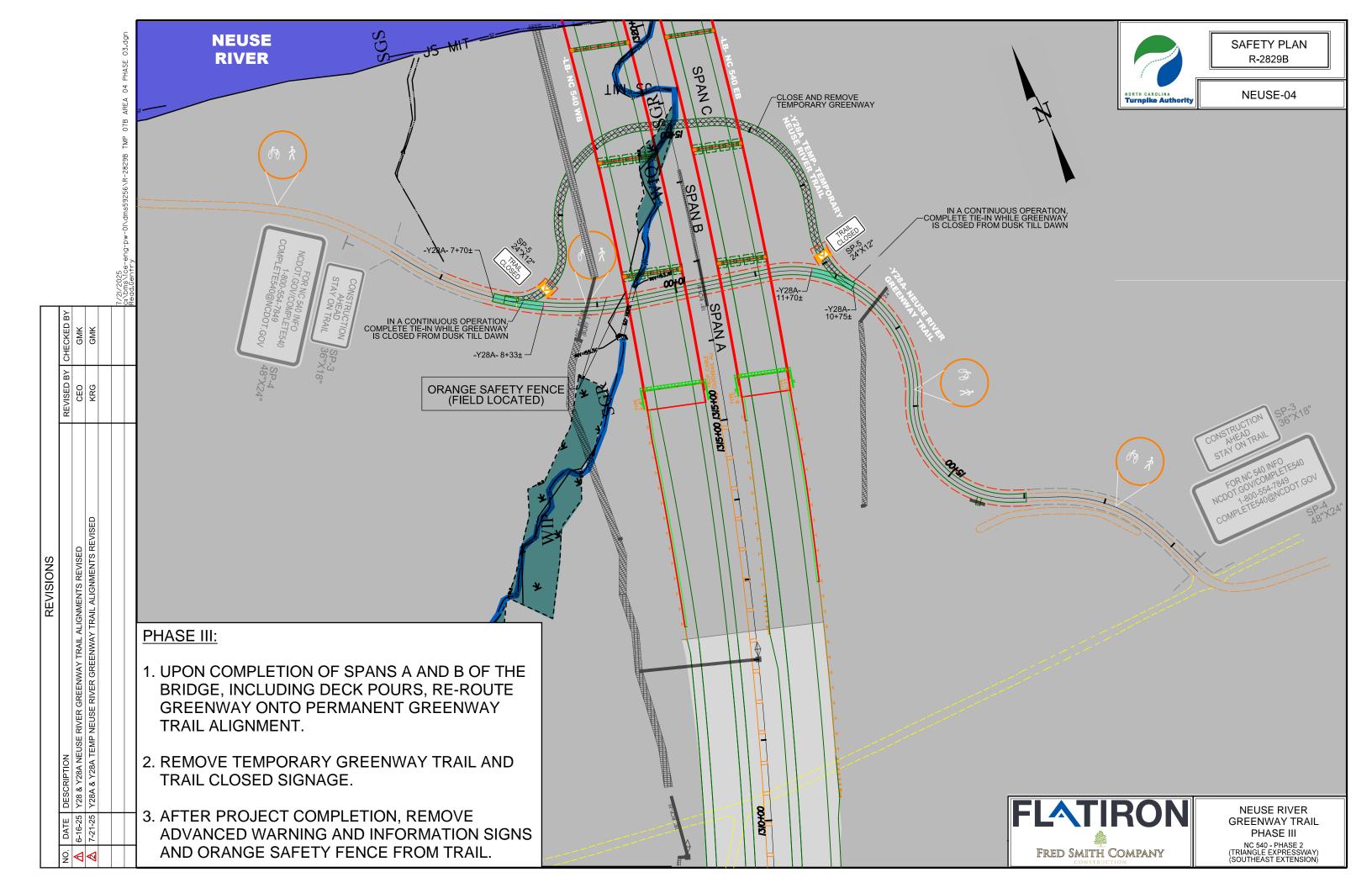
FRED SMITH COMPANY

NEUSE RIVER ACCESS

NC 540 - PHASE 2 (TRIANGLE EXPRESSWAY) (SOUTHEAST EXTENSION)







JOSH STEIN
Governor
D. REID WILSON
Secretary
RICHARD E. ROGERS, JR.
Director



October 29, 2025

Alan Shapiro, P.E., Chief Engineer North Carolina Turnpike Authority 1578 Mail Service Center Raleigh, NC 27699 awshapiro@ncdot.gov

Subject: MODIFICATION of 401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water

Act with ADDITIONAL CONDITIONS for Proposed construction of the Triangle Expressway Southeast Extension (NC 540) in Wake County, Federal Aid Project No. 050047, State Project No. 35517.3.TA1,

TIP Nos, R-2721, R-2828, & R-2829. (TIP R-2829A for This Modification)

NCDWR Project No. 20181249 version 26.

Dear Mr. Shapiro:

Attached hereto is a copy of Modification to Certification No. 4179 issued to The North Carolina Department of Transportation (NCDOT), Turnpike Authority, originally dated February 15, 2019 and most recent modification dated October 29, 2025

This approval is for the purpose and design described in your application. The plans and specifications for this project are incorporated by reference as part of this Water Quality Certification. If you change your project, you must notify the Division and you may be required to submit a new application package with the appropriate fee. If the property is sold, the new owner must be given a copy of this Certification and is responsible for complying with all conditions. [15A NCAC 02H .0507(d)(2)]. This Certification does not relieve the permittee of the responsibility to obtain all other required Federal, State, or Local approvals before proceeding with the project, including those required by, but not limited to, Sediment and Erosion Control, Non-Discharge, and Water Supply Watershed regulations.

If we can be of further assistance, do not hesitate to contact us.

Sincerely,

signed by:
Faith Hardin
3185423002EA45E...

Faith Hardin, Supervisor 401 & Buffer Transportation Permitting Branch

### Attachments

Cc: Eric Alsmeyer, US Corps of Engineers, Raleigh Field Office (Eric.C.Alsmeyer@usace.army.mil) Jennifer Harris, PE, NC Turnpike Authority (ext-jharris1@ncdot.gov) Deanna Riffey, NCDOT Environmental Analysis (driffey@ncdot.gov) Nicole Duprey, NC Turnpike Environmental (ext-njduprey@ncdot.gov) Beth Harmon, NC Division of Mitigation Services (beth.harmon@deq.nc.gov) File Copy



## MODIFICATION to 401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act with ADDITIONAL CONDITIONS

**THIS MODIFIED CERTIFICATION** is issued in conformity with the requirements of Section 401 Public Laws 92-500 and 95-217 of the United States and subject to the North Carolina Division of Water Resources (NCDWR) Regulations in 15 NCAC 2H .0500. This certification modification authorizes the NC Turnpike Authority to impact 8.798 acres of jurisdictional wetlands and 10517 linear feet of jurisdictional streams in Wake & Johnston Counties for section **R-2829A** of the Complete 540 project. The project shall be constructed pursuant to the modification application received October 28, 2025. The authorized additional impacts for this modification are as described below:

Modified R-2829A Wetland Impacts in the Neuse River Basin

| Site            | Permanent Fill (ac)                               | Mechanized Clearing (ac)                          | Temporary Fill (ac)                           | Hand Clearing<br>(ac)                      |  |  |
|-----------------|---|---|---|--|--|--|
| 3<br>(road)     | 0.284<br>(Previously 0.257;<br>Increase of 0.027) | 0.071<br>(Previously 0.098;<br>Decrease of 0.027) |   |  |  |  |
| 9<br>(road)     |   | 0.010<br>(Previously 0; Increase<br>of 0.010)     | 0<br>(Previously 0.010;<br>Decrease of 0.010) |  |  |  |
| 12<br>(utility) |   |   |   | 0.006<br>(Previously 0; Increase of 0.06)  |  |  |
| 13<br>(utility) |   |   |   | 0.032<br>(Previously 0; Increase of 0.032) |  |  |

Total Permanent Wetland net Revision for R-2829A: +0.027 ac Permanent Fill

-0.017 ac Mechanized Clearing

Total net change: +0.010 ac Mitigable wetland impact.

Total Temporary Wetland net Revision for R-2829A: -0.01 ac Temporary Fill; +0.092 ac Hand Clearing

Modified R-2829A Stream Impacts in the Neuse River Basin

| Site            | Riprap Stabilization to Perennial Stream<br>(linear ft) | Temporary Impact to Perennial<br>Stream (linear ft) |
|-----------------|---|---|
| 5<br>(road)     | 25<br>(Previously 0. Increase of 25)                    | 71<br>(Previously 96. Decrease of 25)               |
| 12<br>(utility) |   | 65<br>(Previously 48. Increase of 17)               |

Total Stream Net Revision for R-2829A: +25 linear feet Streambank Stabilization.
-8 linear feet Temporary Impact.

The application provides adequate assurance that the discharge of fill material into the waters of the Neuse River Basin in conjunction with the proposed development will not result in a violation of applicable Water Quality Standards and discharge guidelines. Therefore, the State of North Carolina certifies that this activity will not violate the applicable portions of Sections 301, 302, 303, 306, 307 of PL 92-500 and PL 95-217 if conducted in accordance with the application and conditions hereinafter set forth.



This approval is only valid for the purpose and design that you submitted in your modification application received November 14, 2024. Should your project change, you are required to 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. If any additional wetland impacts, or stream impacts, for this project (now or in the future) exceed one acre or 150 linear feet, respectively, additional compensatory mitigation may be required as described in 15A NCAC 2H .0506 (h) (6) and (7).

For this approval to remain valid, you are required to comply with all the conditions listed below. In addition, you should obtain all other federal, state or local permits before proceeding with your project including (but not limited to) Sediment and Erosion control, Coastal Stormwater, Non-discharge and Water Supply watershed regulations. This Certification shall expire on the same day as the expiration date of the corresponding Corps of Engineers Permit.

This Water Quality Certification neither grants nor affirms any property right, license, or privilege in any lands or waters, or any right of use in any waters. This Water Quality Certification does not authorize any person to interfere with the riparian rights, littoral rights, or water use rights of any other person and does not create any prescriptive right or any right of priority regarding any usage of water. This Water Quality Certification shall not be interposed as a defense in any action respecting the determination of riparian or littoral rights or other rights to water use. No consumptive user is deemed by virtue of this Water Quality Certification to possess any prescriptive or other right of priority with respect to any other consumptive user regardless of the quantity of the withdrawal or the date on which the withdrawal was initiated or expanded. Upon the presentation of proper credentials, the Division may inspect the property.

### **Conditions of Certification:**

- 1. Compensatory mitigation for impacts to an additional 0.01 acres of non-riparian wetlands is required. We understand that you have chosen to perform compensatory mitigation for impacts to wetlands through the North Carolina Division of Mitigation Services (DMS), and that the DMS has agreed to implement the additional mitigation for the project. DMS has indicated in a letter dated October 27, 2025 that they will assume responsibility for satisfying the federal Clean Water Act compensatory mitigation requirements for the above-referenced project, in accordance with DMS's Mitigation Banking Instrument signed July 28, 2010.
- 2. All conditions in the Water Quality Certification for this project dated December 10, 2024, and all other versions thereof, are still applicable to this approval.

This Certification shall become null and void unless the above conditions are made conditions of the Federal 404 and/or Coastal Area Management Act Permit. This Certification shall expire upon the expiration of the 404 or CAMA permit. Please be aware that impacting waters without first applying for and securing the issuance of a 401 Water Quality Certification violates 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. Violations of any condition herein set forth may result in revocation of this Certification and may result in criminal and/or civil penalties. 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 approval and its conditions are final and binding unless contested [G.S. 143-215.5]. Please be aware that impacting waters without first applying for and securing the issuance of a 401 Water Quality Certification violates 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 <a href="http://www.ncoah.com/">http://www.ncoah.com/</a> or by calling the OAH Clerk's Office at (919) 431-3000.

A party filing a Petition must serve a copy of the Petition on: Dan Hirschman, General Counsel Department of Environmental Quality 1601 Mail Service Center Raleigh, NC 27699-1601

If the party filing the Petition is not the permittee, then the party must also serve the recipient of the Certification in accordance with N.C.G.S 150B-23(a).

This the 29th day of October 2025

DIVISION OF WATER RESOURCES

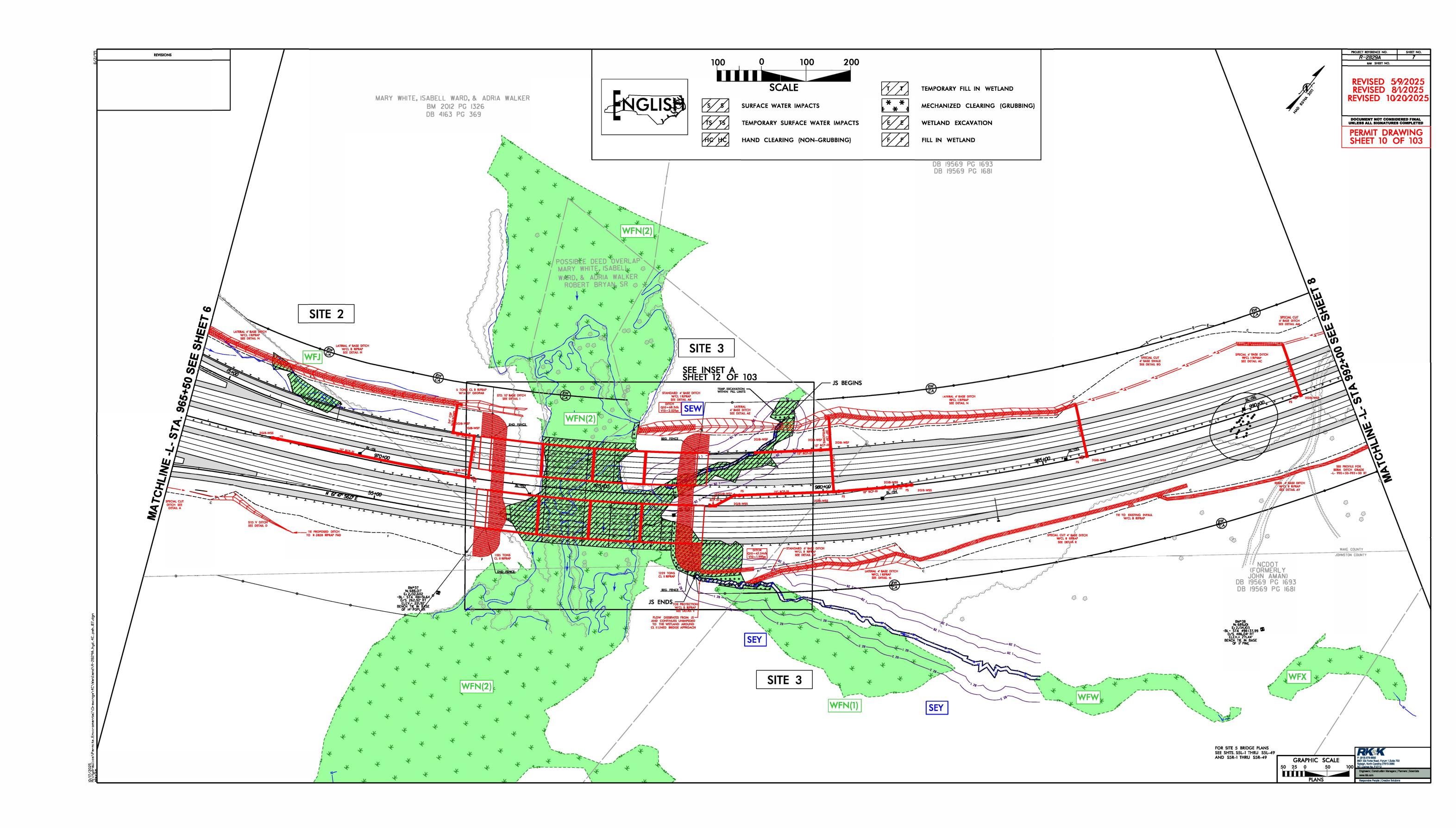
signed by:
Faith Hardin
3185423002EA45E...

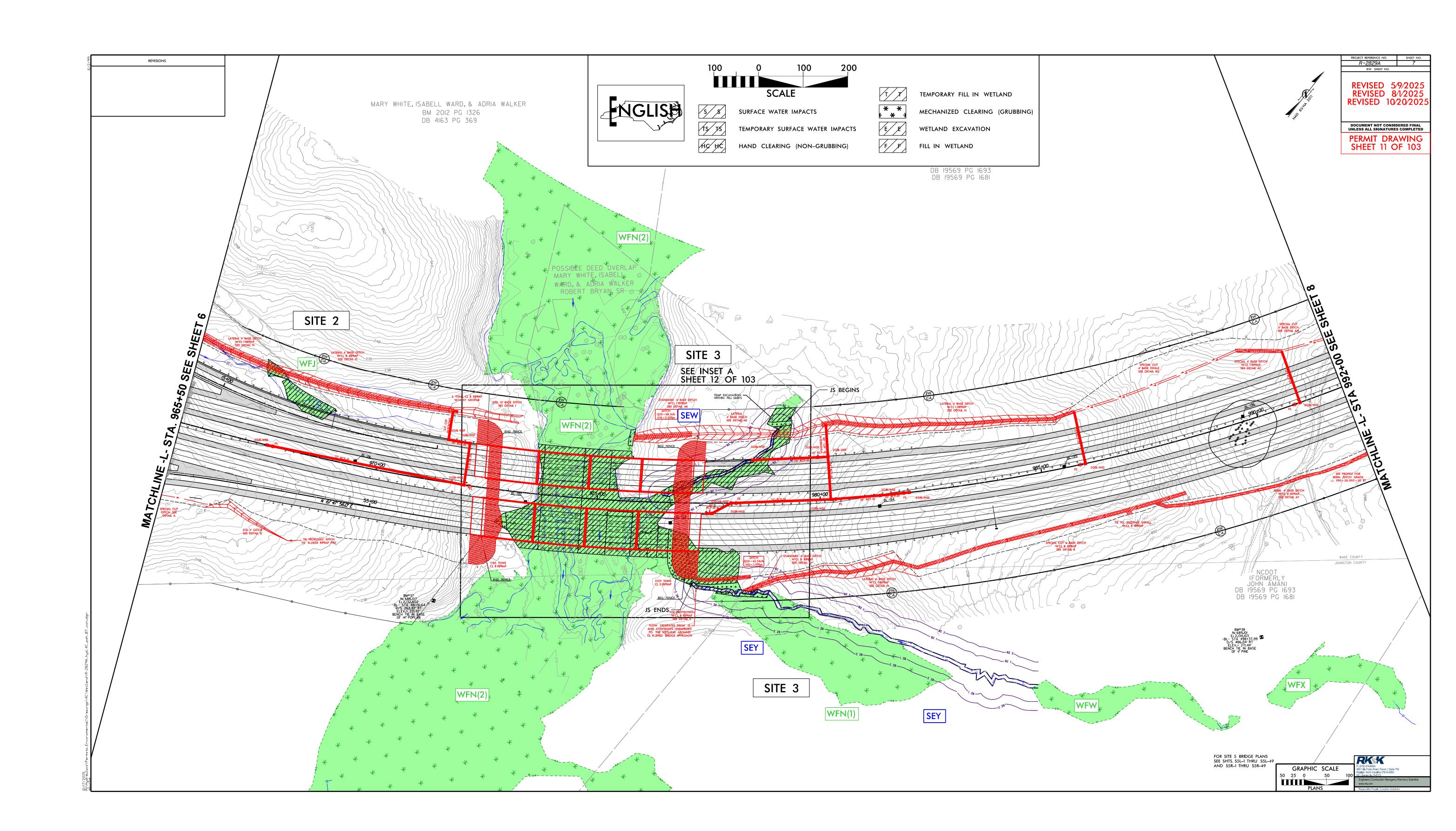
Faith Hardin, Supervisor 401 & Buffer Transportation Permitting Branch

WQC No. 4179

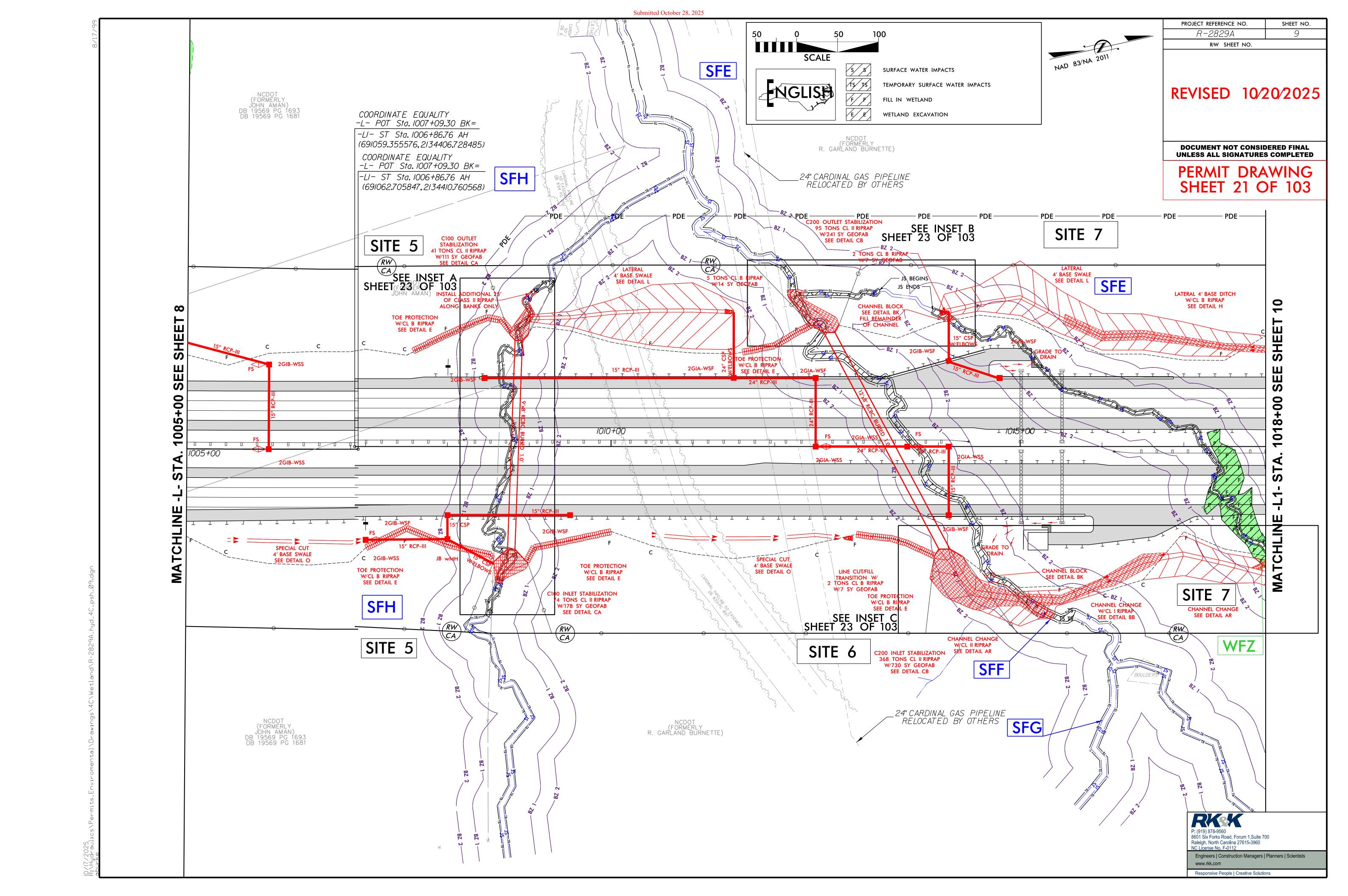


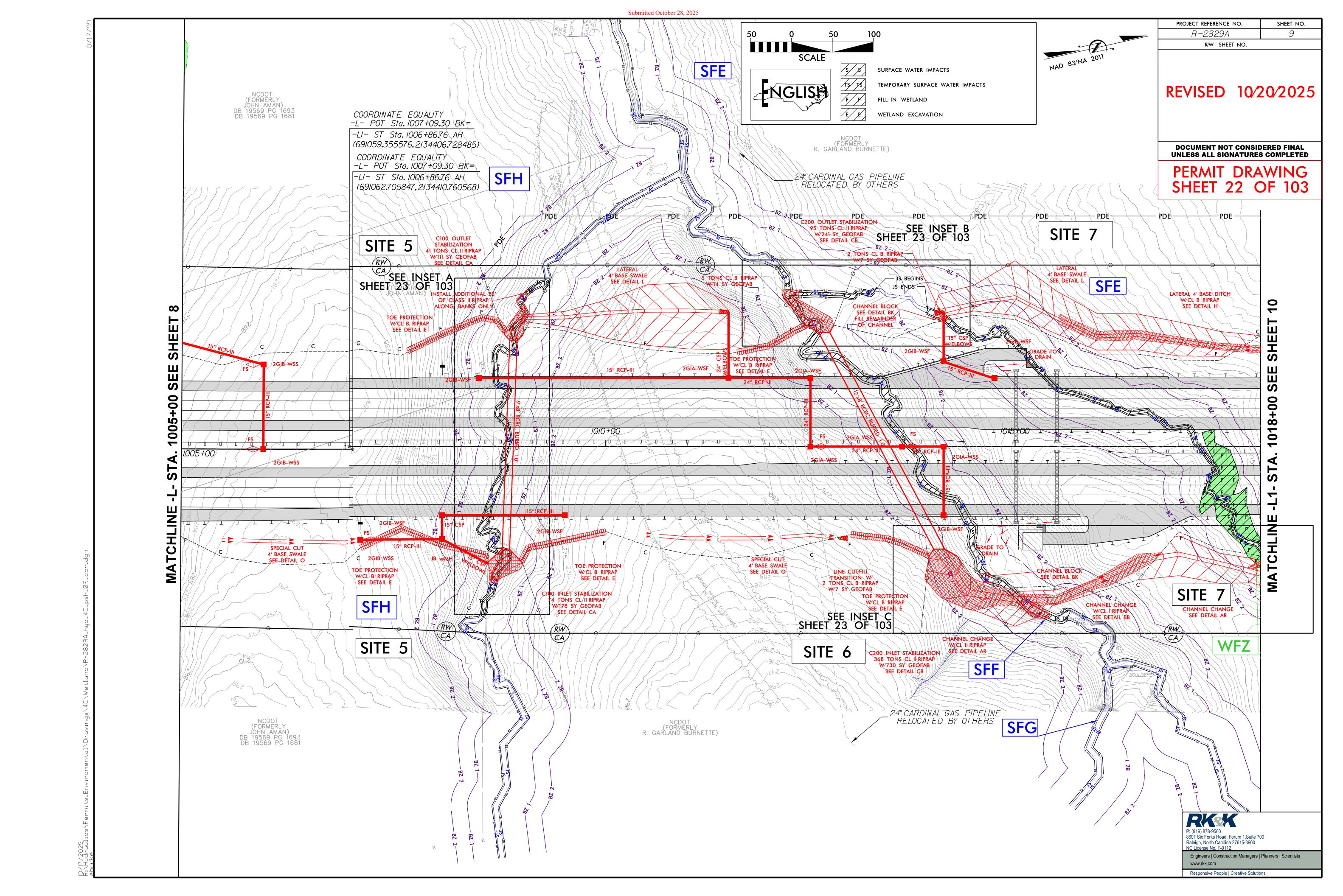
# Permitted Drawings





Submitted October 28, 2025 PROJECT REFERENCE NO. SHEET NO. NGLISH R/W SHEET NO. SCALE FOR INSETS REVISED 5/9/2025 REVISED 8/1/2025 F/F FILL IN WETLAND SURFACE WATER IMPACTS MECHANIZED CLEARING (GRUBBING) REVISED 10/20/2025 TEMPORARY SURFACE WATER IMPACTS WETLAND EXCAVATION HAND CLEARING (NON-GRUBBING) TEMPORARY FILL IN WETLAND DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED SITE 3 PERMIT DRAWING SHEET 12 OF 103 INSET A TEMP. EXCAVATION — WITHIN FILL LIMITS CL B RIPRAP RW SY GEOFAB STANDARD 4' BASE DITCH STD. 10' BASE DITCH SEE DETAIL I W/CL I RIPRAP SEE DETAIL AK LATERAL 4' BASE DITCH SEE DETAIL AE SEW Q10 = 68.3cfs V10 = 2.02fps WFN(2) 15" RCP-III HIC HIC HIC HIC HIC HIC THE TOTAL TO 2GIB-WSS -STANDARD 6' BAS W/CL B RIPR Q10 = 42.54cfs V10 = 1.99fps SEE DETAIL 1185 TONS CL II RIPRAP 1229 TONS CL II RIPRAP JS ENDS TOE PROTECTION W/CL B RIPRAP





INSET A

ADDITIONAL 25'
ASS II RIPRAP

BANKS ONLY

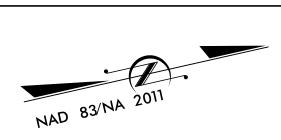
SCALE FOR INSET MECHANIZED CLEARING (GRUBBING) SURFACE WATER IMPACTS TEMPORARY SURFACE WATER IMPACTS FILL IN WETLAND WETLAND EXCAVATION

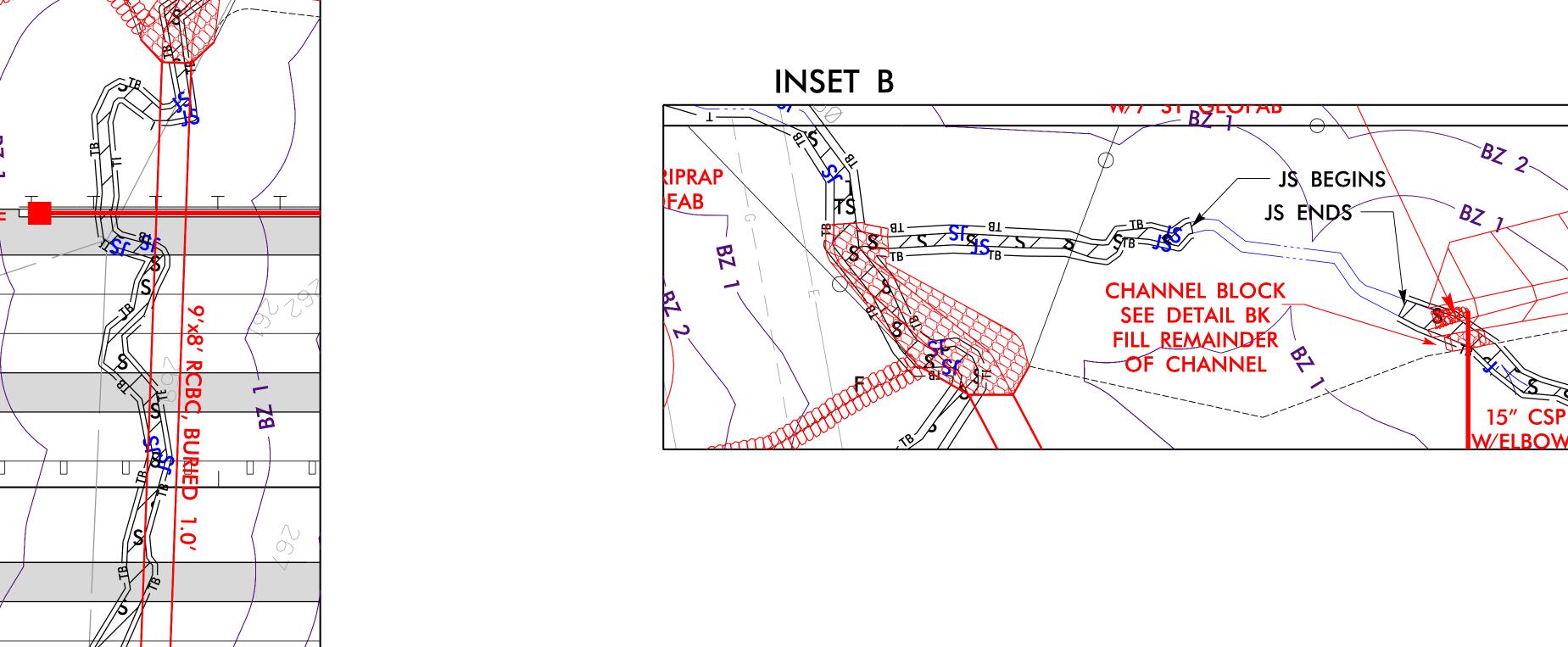
PROJECT REFERENCE NO. SHEET NO. R/W SHEET NO.

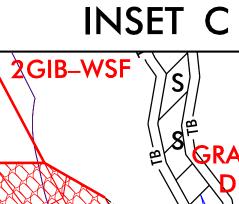
REVISED 10/20/2025

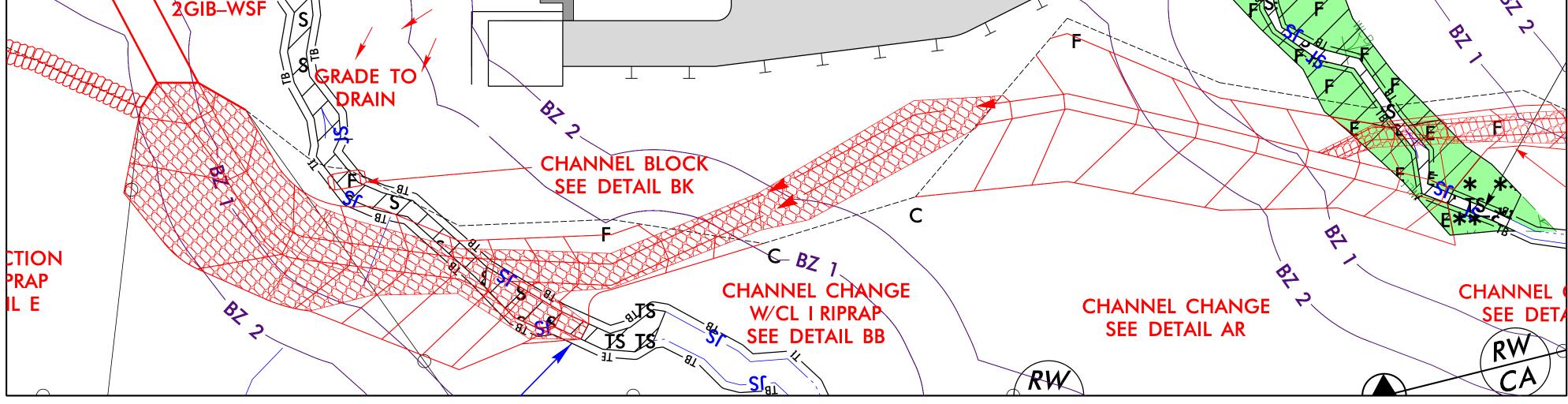
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING SHEET 23 OF 103





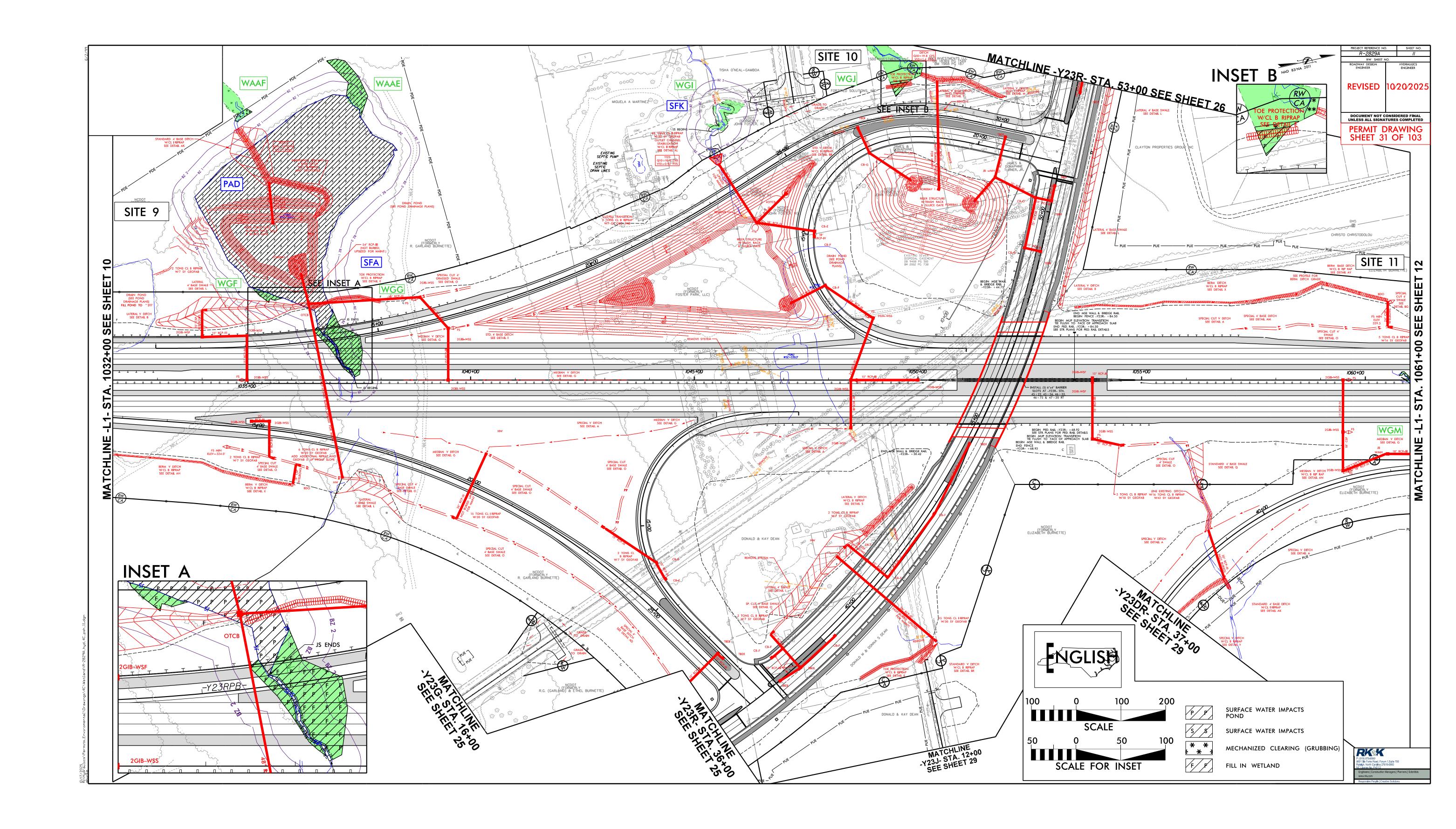


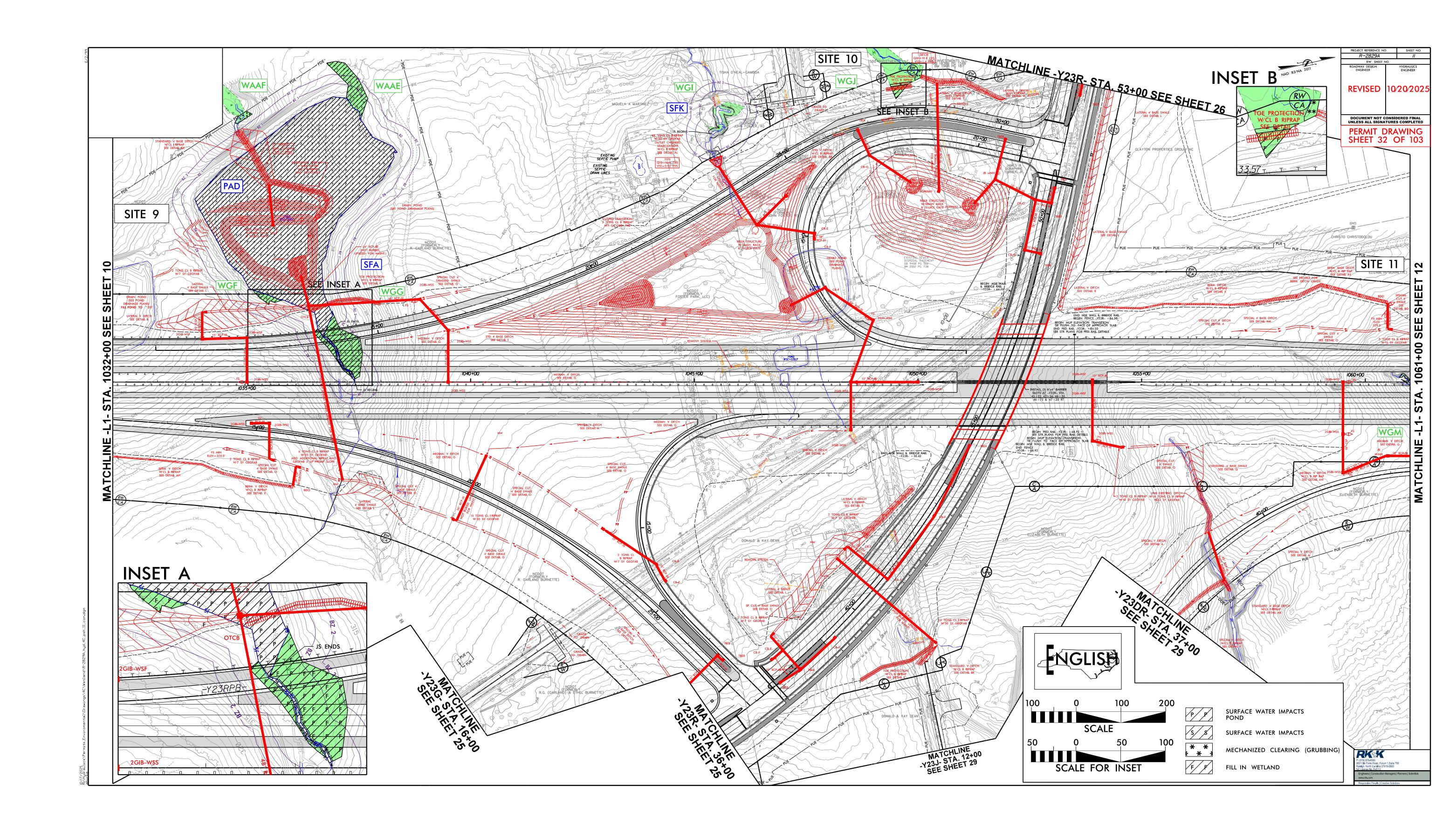


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|             |                                     |                          |  | WETLAND IMPACTS                      |       |   |  |                                    | SURFACE WATER IMPACTS          |   |   |                                     |  |  |
|-------------|-------------------------------------|--------------------------|--|--------------------------------------|-------|---|--|------------------------------------|--------------------------------|---|---|-------------------------------------|--|--|
| Site<br>No. | Station<br>(From/To)                | Structure<br>Size / Type | Permanent<br>Fill In<br>Wetlands<br>(ac) | Temp.<br>Fill In<br>Wetlands<br>(ac) | in    | Mechanized<br>Clearing<br>in Wetlands<br>(ac) | Hand<br>Clearing<br>in<br>Wetlands<br>(ac) | Permanent<br>SW<br>impacts<br>(ac) | Temp.<br>SW<br>impacts<br>(ac) | Existing Channel Impacts Permanent (ft) | Existing<br>Channel<br>Impacts<br>Temp.<br>(ft) | Natural<br>Stream<br>Design<br>(ft) |  |  |
| 1           | -Y22RPAFLY_REV- 28+00 -<br>29+58 LT | Roadway Fill: WFG        | 0.055                                    |                                      |       | ,   |  |                                    |                                |   |   |                                     |  |  |
| 2           | -L- 967+04 - 968+83 LT              | Roadway Fill: WFJ        | 0.098                                    |                                      | 0.023 |   |  |                                    |                                |   |   |                                     |  |  |
| 3           | -L- 972+77 - 979+44 LT              | Bridge: SEW              |  |                                      |       |   |  | 0.031                              |                                | 319                                     |   |                                     |  |  |
|             |                                     | WFN(2)                   | 0.184                                    | 0.706                                | 0.018 | 0.037   | 0.660                                      |                                    |                                |   |   |                                     |  |  |
|             | -L- 976+61 - 978+80 RT              | Roadway Fill: SEY        |  |                                      |       |   |  | 0.002                              | 0.023                          | 15                                      | 174   |                                     |  |  |
|             |                                     | WFN(1)                   | 0.284                                    | 0.049                                | 0.001 | 0.071   | 0.037                                      |                                    |                                |   |   |                                     |  |  |
| 4           | -L- 1001+92 - 1004+65 RT            | 48" RCP: WFY             | 0.449                                    |                                      |       | 0.034   |  |                                    |                                |   |   | +                                   |  |  |
| 5           | -L1- 1008+79                        | 9'x8' RCBC, SFH          |  |                                      |       |   |  | 0.042                              | 0.008                          | 384                                     | 71  |                                     |  |  |
|             |                                     | Bank Stabilization       |  |                                      |       |   |  | 0.002                              |                                | 25                                      |   |                                     |  |  |
|             |                                     | Structure Stabilization  |  |                                      |       |   |  | 0.007                              |                                | 63                                      |   |                                     |  |  |
| 6           | -L1- 1013+72                        | 12'x8' RCBC, SFF         |  |                                      |       |   |  | 0.070                              | 0.009                          | 533                                     | 60  |                                     |  |  |
|             |                                     | Structure Stabilization  |  |                                      |       |   |  | 0.012                              |                                | 86                                      |   |                                     |  |  |
| 7           | -L1- 1012+26 LT - 1018+49 RT        | Roadway Fill: SFE        |  |                                      |       |   |  | 0.060                              | 0.002                          | 759                                     | 21  |                                     |  |  |
|             |                                     | WFZ                      | 0.113                                    |                                      | 0.015 | 0.010   |  |                                    |                                |   |   |                                     |  |  |
| 8           | -L1- 1022+67 LT - 1025+03 RT        | 42" RCP: SFB             |  |                                      |       |   |  | 0.017                              |                                | 222                                     |   |                                     |  |  |
|             |                                     | Structure Stabilization  |  |                                      |       |   |  | 0.001                              | 0.001                          | 24                                      | 10  |                                     |  |  |
|             |                                     | WGD                      | 0.021                                    |                                      |       | 0.001   |  |                                    |                                |   |   |                                     |  |  |
|             |                                     | WGC                      | 0.013                                    |                                      |       |   |  |                                    |                                |   |   |                                     |  |  |
|             |                                     | WGB                      | 0.079                                    |                                      |       |   |  |                                    |                                |   |   |                                     |  |  |
| HEET        | TOTALS*:                            |                          | 1.296                                    | 0.755                                | 0.057 | 0.153   | 0.697                                      | 0.244                              | 0.043                          | 2430                                    | 336   | 0                                   |  |  |

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

NOTES:

Site 3: 4 interior bents with 4 @ 3.5' diameter columns per bent= total 154.4sq ft (0.004ac) permanent wetland impact (included above)

Site 3: WFN(1) piece above SEW is a total take in summary above; hatching outside construction impacts is not shown.

Temporary Excavation (~0.01ac) within the permanently impacted wetland footprint limits due to an erosion control clean water diversion channel

Site 7: WFZ is a total take in summary above; hatching outside construction impacts is not shown

Revised 5/9/2025, 8/1/2025, **10/20/2025** 

NC DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS 9/4/2024 Wake County R-2829A SHEET

103

Revised 2018 Feb

|      |                              |                                  | WETLAND IMPACTS |          |       |             | SURFACE WATER IMPACTS |       |         |                     |                     |        |
|------|------------------------------|----------------------------------|-----------------|----------|-------|-------------|-----------------------|-------|---------|---------------------|---------------------|--------|
|      |                              |                                  | Permanent       | Temp.    |       | Mechanized  | 0                     |       | Temp.   | Existing<br>Channel | Existing<br>Channel | Natura |
| Site | Station                      | Structure                        | Fill In         | Fill In  | in    | Clearing    | in                    | SW    | SW      | Impacts             | Impacts             | Stream |
| No.  | (From/To)                    | Size / Type                      | Wetlands        | Wetlands |       | in Wetlands | Wetlands              |       | impacts | Permanent           | Temp.               | Desig  |
| 9    | -L1- 1035+14 - 1037+70 LT    | 48" RCP: SFA                     | (ac)            | (ac)     | (ac)  | (ac)        | (ac)                  | (ac)  | (ac)    | (ft)<br>124         | (ft)                | (ft)   |
| 9    | -L1- 1035+14 - 1037+70 L1    | WGF                              | 0.040           |          |       |             |                       | 0.008 |         | 124                 |                     | -      |
|      |                              | WGG                              | 0.016<br>0.156  |          |       |             |                       |       |         |                     |                     | -      |
|      |                              | WAAE                             |                 |          |       |             |                       |       |         |                     |                     |        |
|      |                              | WAAF                             | 0.092           |          |       | 0.010       |                       |       |         |                     |                     | +      |
|      | -L1- 1033+83 - 1038+36 LT    | PAD                              |                 |          |       | 0.010       |                       | 2.695 |         |                     |                     |        |
|      | -L1- 1033+63 - 1036+30 L1    | PAD                              |                 |          |       |             |                       | 2.095 |         |                     |                     | +      |
| 10   | -Y23RPB- 27+59 - 28+23 LT    | Roadway Fill: WGJ                | 0.013           |          |       | 0.010       |                       |       |         |                     |                     |        |
|      | -L1- 1060+75 - 1062+35 CL    | Roadway Fill: SFD                |                 |          |       |             |                       | 0.009 |         | 71                  |                     |        |
| 11   | -L1- 1060+75 - 1062+35 CL    | WGM                              | 0.023           |          |       |             |                       | 0.009 |         | /1                  |                     | -      |
|      |                              | WGW                              | 0.023           |          |       |             |                       |       |         |                     |                     | +      |
| 12   | -L1- 1062+62 LT - 1063+75 RT | Roadway Fill: SFC                |                 |          |       |             |                       | 0.038 |         | 479                 |                     |        |
|      |                              | Structure Stabilization          |                 |          |       |             |                       | 0.002 | 0.001   | 22                  | 12                  |        |
|      |                              | WGN                              | 0.001           |          |       | 0.005       |                       |       |         |                     |                     |        |
| 13   | -L1- 1066+33 - 1067+40 RT    | Roadway Fill: WGO                | 0.028           |          |       | 0.004       |                       |       |         |                     |                     |        |
| 14   | -L1- 1084+46 RT - 1086+92 LT | Bank Stabilization: Ditches; SFV |                 |          |       |             |                       | 0.017 | 0.080   | 70                  | 185                 | +      |
|      |                              | (White Oak Creek)                |                 |          |       |             |                       |       |         |                     |                     |        |
| 15   | -L1- 1098+69 - 1104+74 LT    | 8'x7' RCBC, SFR                  |                 |          |       |             |                       | 0.014 | 0.002   | 164                 | 19                  | -      |
|      |                              | Structure Stabilization          |                 |          |       |             |                       | 0.001 |         | 5                   |                     |        |
|      |                              | WGR                              | 0.760           |          | 0.061 | 0.112       |                       |       |         |                     |                     |        |
| HEET | TOTALS*:                     |                                  | 1.089           | 0.000    | 0.061 | 0.141       | 0.000                 | 2.784 | 0.083   | 935                 | 216                 | 0      |

\*Rounded totals are sum of actual impacts

Site 15: WGR is a total take in summary above; hatching outside construction impacts is not shown

Site 15: Temporary Excavation (~0.01ac) shown within the mechanized clearing limits due to an erosion control temporary construction channel

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|         |                              |                               |                      | WE               | TLAND IMPA       | CTS                    |                  | SURFACE WATER IMPACTS |                 |                                |                                |                   |  |
|---------|------------------------------|-------------------------------|----------------------|------------------|------------------|------------------------|------------------|-----------------------|-----------------|--------------------------------|--------------------------------|-------------------|--|
| Site    | Station                      | Structure                     | Permanent<br>Fill In | Temp.<br>Fill In | in               | Mechanized<br>Clearing | in               | Permanent<br>SW       | Temp.<br>SW     | Existing<br>Channel<br>Impacts | Existing<br>Channel<br>Impacts | Natural<br>Stream |  |
| No.     | (From/To)                    | Size / Type                   | Wetlands<br>(ac)     | Wetlands<br>(ac) | Wetlands<br>(ac) | in Wetlands<br>(ac)    | Wetlands<br>(ac) | impacts<br>(ac)       | impacts<br>(ac) | Permanent<br>(ft)              | Temp.<br>(ft)                  | Design<br>(ft)    |  |
| 16      | -L1- 1110+56 LT - 1116+24 RT | Roadway Fill, 7'x7' RCBC: SFN |                      |                  |                  |                        |                  | 0.041                 |                 | 413                            |                                |                   |  |
|         |                              | WGR                           | 1.387                |                  |                  | 0.088                  |                  |                       |                 |                                |                                |                   |  |
|         |                              | WGT                           |                      |                  | 0.008            | 0.018                  |                  |                       |                 |                                |                                |                   |  |
| 17      | -L1- 1113+08 - 1114+68 RT    | Roadway Fill: WGS             | 0.237                |                  |                  | 0.009                  |                  |                       |                 |                                |                                |                   |  |
| 18      | -L1- 1114+82 LT - 1119+07 RT | Roadway Fill: SFQ             |                      |                  |                  |                        |                  | 0.048                 | 0.001           | 571                            | 8                              | -                 |  |
|         |                              | Structure Stabilization       |                      |                  |                  |                        |                  | 0.002                 |                 | 34                             |                                |                   |  |
| 19      | -L1- 1124+16 LT - 1126+26 RT | 60" RCP: SFS                  |                      |                  |                  |                        |                  | 0.031                 |                 | 445                            |                                |                   |  |
|         |                              | Structure Stabilization WGR   | 0.202                |                  |                  | 0.020                  |                  | 0.003                 | 0.002           | 21                             | 10                             |                   |  |
|         |                              | WGK                           | 0.202                |                  |                  | 0.020                  |                  |                       |                 |                                |                                | -                 |  |
| 20      | -L1- 1137+84 LT - 1142+30 RT | 54" RCP/WSP/CAAP: SFT         |                      |                  |                  |                        |                  | 0.054                 |                 | 757                            |                                |                   |  |
|         |                              | Structure Stabilization       |                      |                  |                  |                        |                  | 0.004                 | 0.002           | 47                             | 25                             |                   |  |
| 20A     | -Y24R- 36+70 RT              | Ditch: WGU(2)                 |                      |                  |                  | 0.001                  |                  |                       |                 |                                |                                |                   |  |
| 21      | -L1- 1148+27 LT - 1149+37 RT | Roadway Fill: WGY             | 0.099                |                  |                  |                        |                  |                       |                 |                                |                                |                   |  |
| 22      | -L1- 1148+75 - 1149+39 RT    | Roadway Fill: WGZ             | 0.059                |                  |                  | 0.016                  |                  |                       |                 |                                |                                |                   |  |
| 23      | -L1- 1151+32 LT - 1154+50 RT | 6'x8' RCBC, SGC               |                      |                  |                  |                        |                  | 0.026                 | 0.002           | 398                            | 25                             |                   |  |
|         |                              | Structure Stabilization       |                      |                  |                  |                        |                  | 0.001                 |                 | 20                             |                                |                   |  |
|         |                              | WHB                           | 1.178                |                  | 0.002            | 0.061                  |                  |                       |                 |                                |                                |                   |  |
| SHEET T | ΓΟTALS*:                     |                               | 3.162                | 0.000            | 0.010            | 0.213                  | 0.000            | 0.210                 | 0.007           | 2706                           | 68                             | 0                 |  |

\*Rounded totals are sum of actual impacts

NOTES:

Site 23: Temporary Excavation (~0.032ac) shown within the mechanized clearing limits due to an erosion control temporary construction channel

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|             |                              |                          |                                  | WETLAND IMPACTS              |       |                                       | SURFACE WATER IMPACTS              |                            |                        |                                    |   |                             |
|-------------|------------------------------|--------------------------|----------------------------------|------------------------------|-------|---------------------------------------|------------------------------------|----------------------------|------------------------|------------------------------------|---|-----------------------------|
| Site<br>No. | Station<br>(From/To)         | Structure<br>Size / Type | Permanent<br>Fill In<br>Wetlands | Temp.<br>Fill In<br>Wetlands | in    | Mechanized<br>Clearing<br>in Wetlands | Hand<br>Clearing<br>in<br>Wetlands | Permanent<br>SW<br>impacts | Temp.<br>SW<br>impacts | Existing Channel Impacts Permanent | Existing<br>Channel<br>Impacts<br>Temp. | Natural<br>Stream<br>Design |
| INO.        | (FIOII/10)                   | Size / Type              | (ac)                             | (ac)                         | (ac)  | (ac)                                  | (ac)                               | (ac)                       | (ac)                   | (ft)                               | (ft)                                    | (ft)                        |
| 24          | -L1- 1159+88 LT - 1162+99 RT | 54" CAAP / 60" RCP: SGD  | (==)                             | ()                           | ()    | ()                                    | ()                                 | 0.034                      | ()                     | 387                                | (/                                      | (1-)                        |
|             |                              | Structure Stabilization  |                                  |                              |       |                                       |                                    | 0.007                      | 0.003                  | 92                                 | 25                                      |                             |
|             | -L1- 1161+00 - 1161+40 LT    | Bank Stabilization       |                                  |                              |       |                                       |                                    | 0.010                      |                        | 71                                 |   |                             |
| 25          | -L1- 1169+38 LT - 1172+22 RT | 11'x8' RCBC: SGE         |                                  |                              |       |                                       |                                    | 0.036                      | 0.002                  | 443                                | 23                                      |                             |
|             |                              | Structure Stabilization  |                                  |                              |       |                                       |                                    | 0.003                      | 0.002                  | 46                                 | 33                                      |                             |
|             |                              | WHD(1)                   | 0.255                            |                              | 0.015 | 0.027                                 |                                    |                            |                        | -                                  |   |                             |
|             |                              | WHD(2)                   | 0.195                            |                              | 0.009 | 0.013                                 |                                    |                            |                        |                                    |   |                             |
| 26          | -L1- 1171+28 LT - 1178+18 RT | Roadway Fill: SGG        |                                  |                              |       |                                       |                                    | 0.084                      | 0.001                  | 723                                | 11                                      |                             |
|             |                              | Structure Stabililzation |                                  |                              |       |                                       |                                    | 0.002                      |                        | 21                                 |   |                             |
| 27          | -L1- 1174+66 - 1179+63 LT    | Roadway Fill: SGF        |                                  |                              |       |                                       |                                    | 0.030                      | 0.004                  | 309                                | 40                                      |                             |
|             |                              | Structure Stabililzation |                                  |                              |       |                                       |                                    | 0.003                      |                        | 37                                 |   |                             |
|             |                              | WHD(2)                   | 0.108                            |                              | 0.037 | 0.023                                 |                                    |                            |                        |                                    |   |                             |
| 28          | -Y22CR- 13+50 LT - 14+26 RT  | 2 @ 12'x8' RCBC: SKR     |                                  |                              |       |                                       |                                    | 0.036                      | 0.011                  | 117                                | 44                                      |                             |
|             |                              | Structure Stabilization  |                                  |                              |       |                                       |                                    | 0.016                      |                        | 75                                 |   |                             |
| 29          | -Y23R- 61+16 LT              | 36" RCP: SFJ             |                                  |                              |       |                                       |                                    | 0.008                      |                        | 64                                 |   |                             |
|             |                              | Structure Stabilization  |                                  |                              |       |                                       |                                    | 0.002                      | 0.001                  | 20                                 | 10                                      |                             |
| 29A         | -Y23FR- 11+07 - 12+01 LT     | 54" RCP: SFJ             |                                  |                              |       |                                       |                                    | 0.007                      | 0.001                  | 78                                 | 12                                      |                             |
|             |                              | Structure Stabilization  |                                  |                              |       |                                       |                                    | 0.003                      | 0.001                  | 24                                 | 10                                      | 1                           |
|             |                              | WNM                      | 0.021                            |                              |       | 0.044                                 |                                    |                            |                        |                                    |   |                             |
|             |                              |                          |                                  |                              |       |                                       |                                    |                            |                        |                                    |   |                             |
| HEET T      | OTALS*:                      |                          | 0.579                            | 0.000                        | 0.061 | 0.107                                 | 0.000                              | 0.281                      | 0.026                  | 2507                               | 208                                     | 0                           |

\*Rounded totals are sum of actual impacts

NOTES:

Site 25: Temporary Excavation (~0.007ac) shown within the mechanized clearing limits due to an erosion control temporary construction channel Site 29A: Temporary Excavation (~0.005ac) shown within the mechanized clearing limits due to an erosion control temporary construction channel

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|             |                               |                                  |  | WE <sup>-</sup>                      | TLAND IMPA     | CTS   |  | SURFACE WATER IMPACTS              |                                |   |   |                                    |  |
|-------------|-------------------------------|----------------------------------|--|--------------------------------------|----------------|---|--|------------------------------------|--------------------------------|---|---|------------------------------------|--|
| Site<br>No. | Station<br>(From/To)          | Structure<br>Size / Type         | Permanent<br>Fill In<br>Wetlands<br>(ac) | Temp.<br>Fill In<br>Wetlands<br>(ac) | in             | Mechanized<br>Clearing<br>in Wetlands<br>(ac) | Hand<br>Clearing<br>in<br>Wetlands<br>(ac) | Permanent<br>SW<br>impacts<br>(ac) | Temp.<br>SW<br>impacts<br>(ac) | Existing<br>Channel<br>Impacts<br>Permanent<br>(ft) | Existing<br>Channel<br>Impacts<br>Temp.<br>(ft) | Natura<br>Strear<br>Design<br>(ft) |  |
| 30          | -Y23DR- 23+90 LT - 25+00 RT   | 42" RCP: SHT                     | (ac)                                     | (ac)                                 | (ac)           | (ac)  | (ac)                                       | 0.011                              | (ac)                           | 225   | (11)  | (11)                               |  |
| 30          | -Y23DR- 23+59 - 25+53 LT      | PAO                              |  |                                      |                |   |  | 0.792                              |                                | 223   |   |                                    |  |
| 31          | -Y24R- 19+06 LT - 21+74 RT    | 5'x6' RCBC Ext / 72" WSP: SFY    |  |                                      |                |   |  | 0.001                              |                                | 6   |   | -                                  |  |
|             |                               | Structure Stabilization          | 2 222                                    |                                      | 2 224          | 0.040   |  | 0.005                              | 0.002                          | 34  | 10  |                                    |  |
|             |                               | WGW<br>WGV(1)                    | 0.023<br>0.055                           |                                      | 0.004<br>0.010 | 0.019<br>0.021                                |  |                                    |                                |   |   |                                    |  |
| 32          | -Y24R- 34+65 CT               | 6'x8'/9' RCBC Ext / 72" WSP: SGA |  |                                      |                |   |  | 0.064                              | 0.001                          | 270   | 7   |                                    |  |
|             |                               | Structure Stabilization          |  |                                      |                |   |  | 0.007                              | 0.003                          | 30  | 12  |                                    |  |
| 33          | -Y26R- 18+73 CT               | 10'x9' RCBC: SGA                 |  |                                      |                |   |  | 0.016                              | 0.001                          | 137   | 11  | +                                  |  |
|             |                               | Structure Stabilization          |  |                                      |                |   |  | 0.007                              | 0.006                          | 40  | 37  |                                    |  |
|             |                               | WHD(2)<br>WAAK                   | 0.026                                    |                                      | 0.007          | 0.014<br>0.020                                |  |                                    |                                |   |   |                                    |  |
| 34          | -Y26R- 18+50 LT               | 10'x9' RCBC: SAAK                |  |                                      |                |   |  | 0.002                              | 0.001                          | 31  | 11  | _                                  |  |
| 35          | -Y26R- 18+35 LT               | 10'x9' RCBC: SAAL                |  |                                      |                |   |  |                                    | 0.001                          |   | 10  |                                    |  |
| 36          | -Y22RPE_REV- 45+95 - 46+14 RT | Ditch: WFK                       |  |                                      |                | 0.005   |  |                                    |                                |   |   |                                    |  |
| HEET        | TOTALS*:                      |                                  | 0.104                                    | 0.000                                | 0.021          | 0.079   | 0.000                                      | 0.905                              | 0.015                          | 773   | 98  | 0                                  |  |

\*Rounded totals are sum of actual impacts

NOTES

Site 33: Temporary Excavation (~0.001ac) shown within the mechanized clearing limits due to an erosion control temporary construction channel

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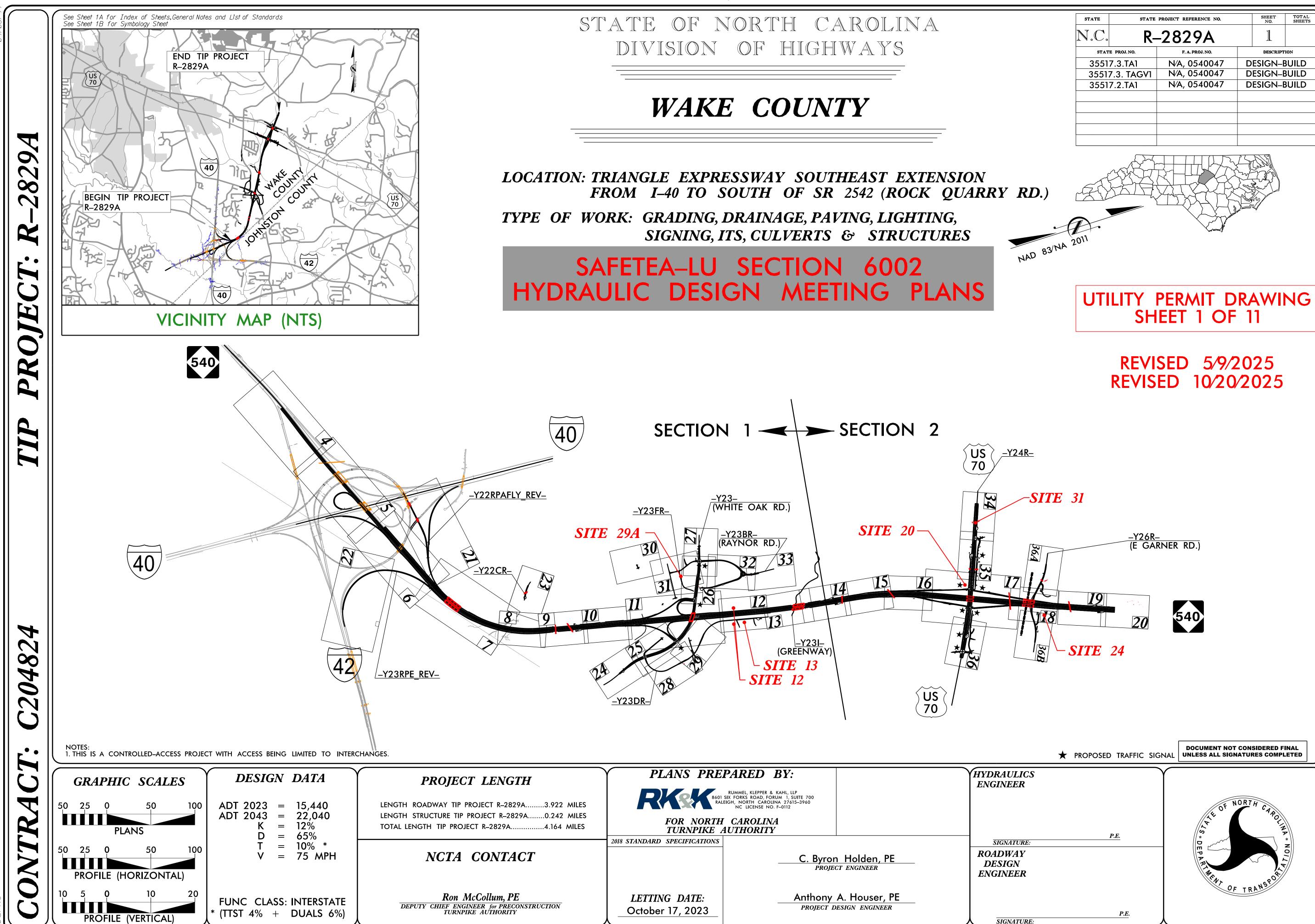
SHEET

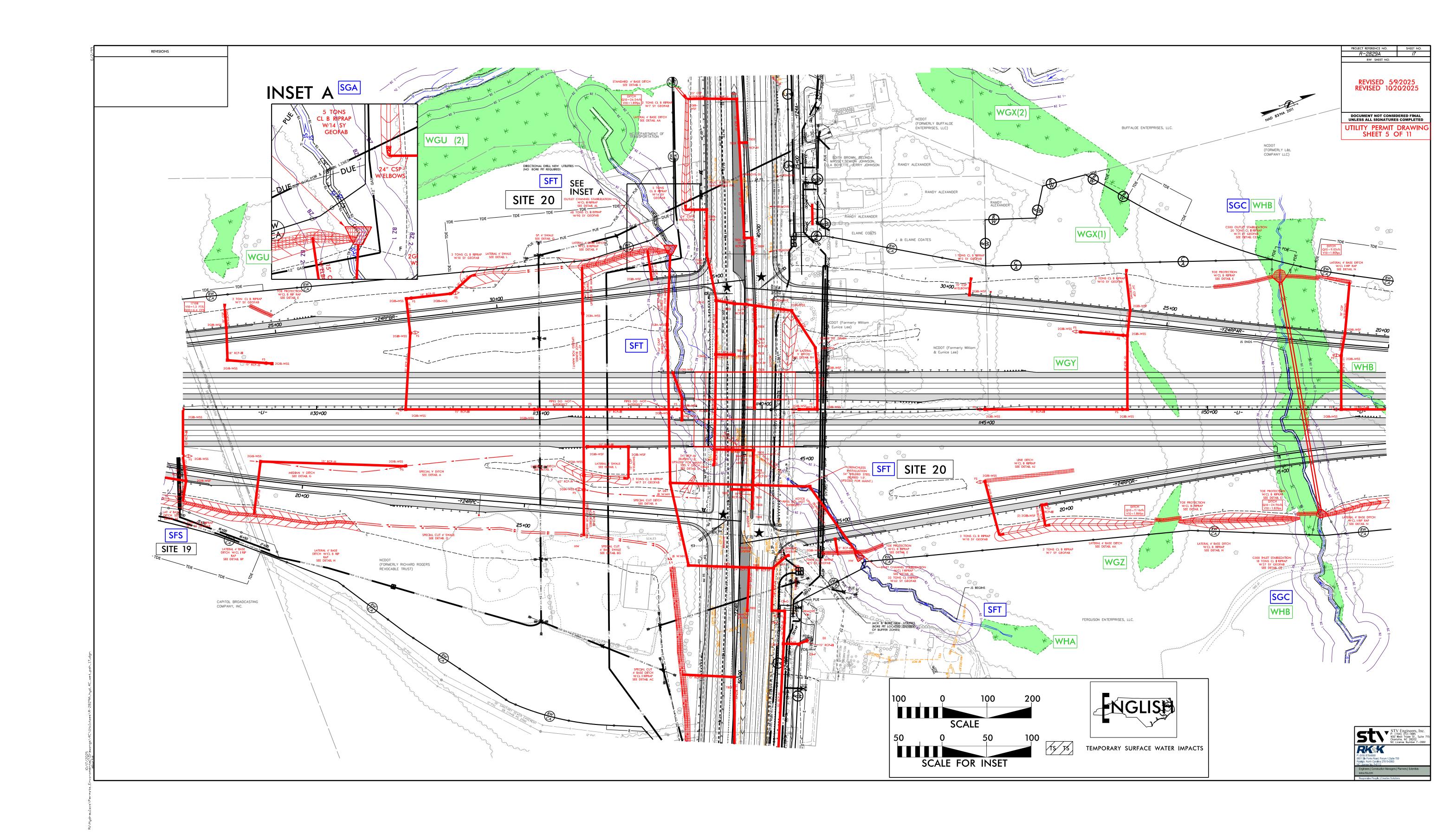
NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
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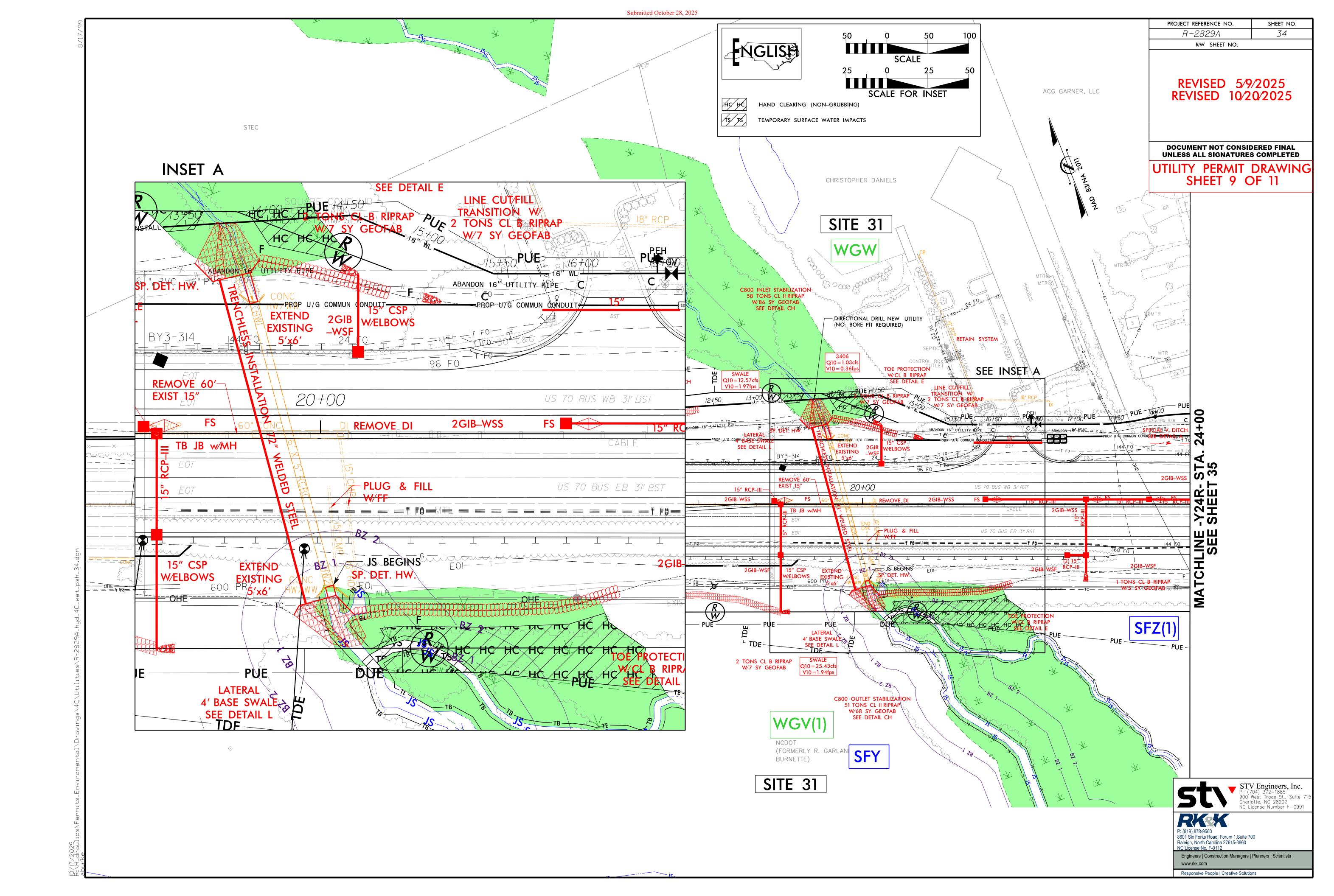
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|          |                           |  | WETLAND IMPACTS      |                  |                  |                        | SURFACE WATER IMPACTS  |                 |                 |                                |                                |                   |
|----------|---------------------------|--|----------------------|------------------|------------------|------------------------|------------------------|-----------------|-----------------|--------------------------------|--------------------------------|-------------------|
| Site     | Station                   | Structure                                      | Permanent<br>Fill In | Temp.<br>Fill In | in               | Mechanized<br>Clearing | Hand<br>Clearing<br>in | Permanent<br>SW | Temp.<br>SW     | Existing<br>Channel<br>Impacts | Existing<br>Channel<br>Impacts | Natural<br>Stream |
| No.      | (From/To)                 | Size / Type                                    | Wetlands<br>(ac)     | Wetlands (ac)    | Wetlands<br>(ac) | in Wetlands (ac)       | Wetlands<br>(ac)       | impacts<br>(ac) | impacts<br>(ac) | Permanent<br>(ft)              | Temp.<br>(ft)                  | Design<br>(ft)    |
| 12       | -Y23DR- 46+82 - 47+18 RT  | Overhead Power: SFC                            | ` '                  | ` '              |                  | , ,                    | , ,                    | ,               | 0.006           | , ,                            | 65                             |                   |
|          | -L1- 1062+50 - 1062+70 LT | Overhead Power: WGN                            |                      |                  |                  |                        | 0.006                  |                 |                 |                                |                                |                   |
| 13       | Y23DR- 49+70-50+65 RT     | Overhead Power: WGO                            |                      |                  |                  |                        | 0.032                  |                 |                 |                                |                                |                   |
| 20       | -L1- 1137+51 - 1137+85 LT | Overhead Power, UG Gas &                       |                      |                  |                  |                        |                        |                 | 0.006           |                                | 76                             |                   |
|          |                           | Telephone: SFT                                 |                      |                  |                  |                        |                        |                 |                 |                                |                                |                   |
| 24       | -L1- 1162+71 - 1163+11 RT | Overhead Power: SGD                            |                      |                  |                  |                        |                        |                 | 0.003           |                                | 36                             |                   |
|          |                           | WHC  |                      |                  |                  |                        | 0.020                  |                 |                 |                                | <br>                           |                   |
| 29A      | -Y23FR- 11+07 - 12+01 LT  | Overhead Power: SFJ, WNM                       |                      |                  |                  |                        | 0.039                  |                 |                 |                                |                                |                   |
| 31       | -Y24R- 18+90 - 20+18 LT   | UG Waterline: WGW                              |                      |                  |                  |                        | 0.034                  |                 |                 |                                |                                |                   |
|          | -Y24R-20+37 - 22+10 RT    | Overhead Power & Anticipated Utility Line: SFY |                      |                  |                  |                        |                        |                 | 0.007           |                                | 68                             |                   |
|          |                           | WGV(1)   |                      |                  |                  |                        | 0.120                  |                 |                 |                                |                                |                   |
|          | -Y24R- 20+25 - 20+38 RT   | SFZ(1)   |                      |                  |                  |                        |                        |                 | 0.002           |                                | 12                             |                   |
|          |                           |  |                      |                  |                  |                        |                        |                 |                 |                                |                                |                   |
|          |                           |  |                      |                  |                  |                        |                        |                 |                 |                                |                                |                   |
| DDO IECT | <br>Γ TOTALS*:            |  | 0.000                | 0.000            | 0.000            | 0.000                  | 0.251                  | 0.000           | 0.024           | 0                              | 257                            | 0                 |

\*Rounded totals are sum of actual impacts NOTES:

Revised 5/9/2025 **Revised 10/20/2025** 

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
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# Mitigation Acceptance Letters

### U.S. ARMY CORPS OF ENGINEERS

# **Wilmington District**

# **Compensatory Mitigation Responsibility Transfer Form**

Permittee: NCDOT Turnpike Authority Action ID: SAW-2009-02240

Project Name: Complete 540, R-2829A Mod, Sites 3-5-9-12-13

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 Wilmington District 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 verifies that the mitigation requirements (credits) shown below have been released and are available at the identified site. By signing below, the Sponsor is accepting full responsibility for the identified mitigation, regardless of whether 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 ledger to the Permittee, the Project Manager who issued the permit, the Bank Project Manager, and the 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: 03020201, Neuse River Basin

|                              |      | . 0  | 0                       |                       |              |         |  |  |  |
|------------------------------|------|------|-------------------------|-----------------------|--------------|---------|--|--|--|
| Stream Impacts (linear feet) |      |      | Wetland Impacts (acres) |                       |              |         |  |  |  |
| Warm                         | Cool | Cold | Riparian Riverine       | Riparian Non-Riverine | Non-Riparian | Coastal |  |  |  |
|                              |      |      |                         | 0.010                 |              |         |  |  |  |

<sup>\*</sup>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-

| 8-digit HUC and | l Basin: 03020201 | , Neuse River Basin |
|-----------------|-------------------|---------------------|
|-----------------|-------------------|---------------------|

County: Wake

| Stream | Mitigation (credi | ts)  |                   | Wetland Mitigation (credits) |              |         |  |  |  |  |
|--------|-------------------|------|-------------------|------------------------------|--------------|---------|--|--|--|--|
| Warm   | Cool              | Cold | Riparian Riverine | Riparian Non-Riverine        | Non-Riparian | Coastal |  |  |  |  |
|        |                   |      |                   | 0.020                        |              |         |  |  |  |  |

### 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 Wilmington District, 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: NCDMS                           |                   |
|--|-------------------|
| Name of Sponsor's Authorized Representative: Beth Harmon |                   |
| Elizabeth Harmon   | 10/31/2025        |
| Signature of Sponsor's Authorized Representative         | Date of Signature |

Page 1 of 2 Form Date July 7, 2020

# USACE Wilmington District Compensatory Mitigation Responsibility Transfer Form, Page 2

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

- Once this document has been signed by the Mitigation Sponsor and the District 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 District 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. When NCDMS provides mitigation 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 NCDMS must be provided to the District within 30 days of permit issuance. NCDOT remains fully responsible for the mitigation until the District 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 District
  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 District, the Sponsor must obtain case-by-case approval from the District 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 District administrative records for both the permit and the Bank/ILF Instrument.

# **Comments/Additional Conditions:**

This required mitigation is additional mitigation required for the subject project.

This form is not valid unless signed below by the District 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 District Project Manager at the address below, 3) the Bank Manager listed in RIBITS, and 4) the Wilmington District Mitigation Office, 3331 Heritage Trade Drive, Suite 105, Wake Forest, NC 27587 (or by email to SAWMIT@usace.army.mil)*. Questions regarding this form or any of the permit conditions may be directed to the District Mitigation Office.

**USACE Project Manager:** Eric Alsmeyer

**US Army Corps of Engineers** 

3331 Heritage Trade Drive, Suite 105

Wake Forest, NC 27587

Email: eric.c.alsmeyer@usace.army.mil

Wilmington District Project Manager Signature

October 31, 2025

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 <a href="http://ribits.usace.army.mil">http://ribits.usace.army.mil</a>.