



## Pre-Construction Notification (PCN) Form

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

April 13, 2022 Ver 4.3

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

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

Below is a link to the online help file.

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

### A. Processing Information

Pre-Filing Meeting Date Request was submitted on: \*

4/29/2022

If this is a courtesy copy, please fill in this with the submission date.

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

Nash

Is this a NCDMS Project? \*

☐ Yes ☒ No

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

Is this project a public transportation project? \*

☒ Yes ☐ No

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

Is this a NCDOT Project? \*

☒ Yes ☐ No

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

B-5670

WBS # \*

45625.3.1

(for NCDOT use only)

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

- ☒ Section 404 Permit (wetlands, streams and waters, Clean Water Act)  
☐ Section 10 Permit (navigable waters, tidal waters, Rivers and Harbors Act)

Has this PCN previously been submitted? \*

☐ Yes  
☒ No

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

- ☐ Nationwide Permit (NWP)  
☒ Regional General Permit (RGP)  
☐ Standard (IP)

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

☒ Yes ☐ No

Regional General Permit (RGP) Number:

201902350 - Work associated with bridge construction, widening, replacement, and interchanges

RGP Numbers (for multiple RGPs):

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

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

check all that apply

- |   |  |
|---|--|
| <input checked="" type="checkbox"/> 401 Water Quality Certification - Regular | <input type="checkbox"/> 401 Water Quality Certification - Express |
| <input type="checkbox"/> Non-404 Jurisdictional General Permit                | <input checked="" type="checkbox"/> Riparian Buffer Authorization  |
| <input type="checkbox"/> Individual 401 Water Quality Certification           |  |

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

\*

For the record only for DWR 401 Certification:

☐ Yes ☒ No

For the record only for Corps Permit:

☐ Yes ☒ No

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

☐ Yes ☒ No

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

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

☒ Yes ☐ No

Acceptance Letter Attachment

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

FILE TYPE MUST BE PDF

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

## B. Applicant Information

1a. Who is the Primary Contact? \*

NCDOT

1b. Primary Contact Email: \*

driffey@ncdot.gov

1c. Primary Contact Phone: \*

(xxx)xxx-xxxx

(919)707-6151

1d. Who is applying for the permit? \*

☒ Owner

(Check all that apply)

☐ Applicant (other than owner)

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

☐ Yes ☒ No

## 2. Owner Information

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

Multiple Properties

2b. Deed book and page no.:

2c. Contact Person:

(for Corporations)

2d. Address \*

Street Address

1598 Mail Service Center

Address Line 2

City

Raleigh

Postal / Zip Code

27699-1598

State / Province / Region

NC

Country

USA

2e. Telephone Number: \*

(xxx)xxx-xxxx

(919)707-6000

2f. Fax Number:

(xxx)xxx-xxxx

2g. Email Address: \*

pharris@ncdot.gov

## C. Project Information and Prior Project History

### 1. Project Information

**1a. Name of project: \***

Replacement of Bridge #29 on US 64 Alternate over the Tar River

**1b. Subdivision name:**

(if appropriate)

**1c. Nearest municipality / town: \***

Spring Hope

## 2. Project Identification

**2a. Property Identification Number:**

(tax PIN or parcel ID)

**2b. Property size:**

(in acres)

**2c. Project Address**

Street Address

Address Line 2

City

Postal / Zip Code

State / Province / Region

Country

**2d. Site coordinates in decimal degrees**

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

**Latitude: \***

35.928165

ex: 34.208504

**Longitude: \***

-78.148131

-77.796371

## 3. Surface Waters

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

Tar River

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

WS-V; NSW

[Surface Water Lookup](#)

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

Tar-Pamlico

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

030201010603

[River Basin Lookup](#)

## 4. Project Description and History

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

Bridge 29 was built in 1952. Bridge 29 is approximately 315 feet in length with 7 spans.

Land use in the project study area is a combination of undeveloped areas, residential, and agricultural areas. The project study area is rural and predominantly undeveloped with maintained/mowed road right-of-way, two streams, and scattered residential homes.

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

☐ Yes ☒ No ☐ Unknown

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

0.04

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

(intermittent and perennial)

1,204

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

Bridge 29 is considered structurally deficient due to the superstructure and substructure conditions.

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

The proposed replacement of Bridges No. 29 over the Tar River will be on existing alignment. Traffic will be detoured offsite during construction.

Proposed replacement Bridge 29 will have two 12-foot lanes and 4-foot paved shoulders on both sides of the bridge with 4 spans.

The replacement Bridge 29 will be approximately 325 feet long. Temporary causeways will be installed to provide access for the contractor to remove the timber piles and concrete footings and construct the bridge. The removal of existing timber piles will be conducted using approved Design Standards in Sensitive Watersheds.

Standard road building equipment, such as trucks, dozers, and cranes will be used.

5. Jurisdictional Determinations

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

Yes No Unknown

Comments:

See USACE PJD determination request submitted 7/18/2022

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

Preliminary Approved Not Verified Unknown N/A

Corps AID Number:

Example: SAW-2017-99999

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

Name (if known): Beth Reed & Ross Sullivan

Agency/Consultant Company: Kimley-Horn

Other:

6. Future Project Plans

6a. Is this a phased project? \*

Yes No

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

No

D. Proposed Impacts Inventory

1. Impacts Summary

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

Wetlands Streams-tributaries Buffers Open Waters Pond Construction

3. Stream Impacts

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

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

	3a. Reason for impact * (?)	3b.Impact type *	3c. Type of impact *	3d. S. name *	3e. Stream Type * (?)	3f. Type of Jurisdiction *	3g. S. width *	3h. Impact length *
S1	Bridge	Temporary	Workpad/Causeway	Tar River	Perennial	Both	110 Average (feet)	68 (linear feet)
S2	Bridge	Temporary	Workpad/Causeway	Tar River	Perennial	Both	110 Average (feet)	34 (linear feet)
S3	SB - Tie in to Tar River	Permanent	Bank Stabilization	UT Tar River	Perennial	Both	6 Average (feet)	140 (linear feet)

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

3i. Total jurisdictional ditch impact in square feet:

0

3i. Total permanent stream impacts:

140

3i. Total temporary stream impacts:

102

3i. Total stream and ditch impacts:  
242

3j. Comments:

6. Buffer Impacts (for DWR)

If project will impact a protected riparian buffer, then complete the chart below. Individually list all buffer impacts below.

6a. Project is in which protect basin(s)? \*

Check all that apply.

☐ Neuse

☐ Catawba

☐ Goose Creek

☐ Other

☒ Tar-Pamlico

☐ Randleman

☐ Jordan Lake

6b. Impact Type* (?)	6c. Per or Temp* (?)	6d. Stream name*	6e. Buffer mitigation required? *	6f. Zone 1 impact*	6g. Zone 2 impact*
Bridge - Allowable	P	Tar River	No	8,208 (square feet)	5,371 (square feet)
Parallel - Allowable w/mitigation	P	Tar River	Yes	4,324 (square feet)	1,039 (square feet)

6h. Total buffer impacts:

	Zone 1	Zone 2
Total Temporary impacts:	0.00	0.00

	Zone 1	Zone 2
Total Permanent impacts:	12,532.00	6,410.00

	Zone 1	Zone 2
Total combined buffer impacts:	12,532.00	6,410.00

6i. Comments:

E. Impact Justification and Mitigation

1. Avoidance and Minimization

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

Traffic will be routed to an offsite detour during construction.

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

Stormwater outfalls will be placed outside of the buffer zones and will have rip-rap pads to help dissipate energy and reduce velocity. Design Standards in Sensitive Watersheds will be incorporated. The causeway will be constructed in two phases such that no more than 50% of the main channel flow area may be blocked during any phase for construction and removal of the new and old bridge. A ditch is proposed in the buffer zone to stabilize the flow area and not change existing flow patterns.

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

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

☒ Yes

☐ No

2c. If yes, mitigation is required by (check all that apply):

☒ DWR

☐ Corps

2d. If yes, which mitigation option(s) will be used for this project?

☐ Mitigation bank

☒ Payment to in-lieu fee program

☐ Permittee Responsible Mitigation

4. Complete if Making a Payment to In-lieu Fee Program

4a. Approval letter from in-lieu fee program is attached.

☒ Yes

☐ No

4b. Stream mitigation requested:

(linear feet)

0

4c. If using stream mitigation, what is the stream temperature:

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

4d. Buffer mitigation requested (DWR only):

(square feet)

5,363

4e. Riparian wetland mitigation requested:

(acres)

0

4g. Coastal (tidal) wetland mitigation requested:

(acres)

0

4f. Non-riparian wetland mitigation requested:

(acres)

4h. Comments

6. Buffer mitigation (State Regulated Riparian Buffer Rules) - required by DWR

6a. Will the project result in an impact within a protected riparian buffer that requires buffer mitigation? If yes, you must fill out this entire form - please contact DWR for more information.

☒ Yes ☐ No

6b. If yes, then identify the square feet of impact to each zone of the riparian buffer that requires mitigation calculate the amount of mitigation required in the table below.

	6c. Reason for impact	6d. Total impact (square feet)	Multiplier	6e. Required mitigation (square feet)	
Zone 1	Parallel Roadway Impacts	4,324	3	12,972	

Zone 2 Parallel Roadway Impacts 1,039 1.5 1,559

6f. Total buffer mitigation required

14531

6g. If buffer mitigation is required, is payment to a mitigation bank or NC Division of Mitigation Services proposed?

☒ Yes ☐ No

6j. Comments:

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

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

1. Diffuse Flow Plan

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

☒ Yes ☐ No

1b. All buffer impacts and high ground impacts require diffuse flow or other form of stormwater treatment. If the project is subject to a state implemented riparian buffer protection program, include a plan that fully documents how diffuse flow will be maintained.

All Stormwater Control Measures (SCM)s must be designed in accordance with the NC Stormwater Design Manual. Associated supplement forms and other documentation shall be provided.

What type of SCM are you providing?

- ☐ Level Spreader
- ☒ Vegetated Conveyance (lower SHWT)
- ☐ Wetland Swale (higher SHWT)
- ☐ Other SCM that removes minimum 30% nitrogen
- ☐ Proposed project will not create concentrated stormwater flow through the buffer

(check all that apply)

For a list of options to meet the diffuse flow requirements, click here.

2. Stormwater Management Plan

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

☒ Yes ☐ No

Comments:

G. Supplementary Information

## 1. Environmental Documentation

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

☒ Yes ☐ No

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

☒ Yes ☐ No

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

☐ Yes ☒ No

Comments: \*

MCDC do not require approval from the State Clearing House.

## 2. Violations (DWR Requirement)

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

☐ Yes ☒ No

## 3. Cumulative Impacts (DWR Requirement)

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

☐ Yes ☒ No

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

Due to the existing bridge being replaced, this project will neither influence nearby land uses nor stimulate growth.

## 4. Sewage Disposal (DWR Requirement)

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

☐ Yes ☒ No ☐ N/A

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

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

☒ Yes ☐ No

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

☒ Yes ☐ No

5c. If yes, indicate the USFWS Field Office you have contacted.

Raleigh

5d. Is another Federal agency involved? \*

☐ Yes ☒ No ☐ Unknown

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

☒ Yes ☐ No

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

NC Natural Heritage Program database, USFWS Raleigh Field Office and IPaC (Information for Planning and Consultation) website, and NOAA National Marine Fisheries.

## 6. Essential Fish Habitat (Corps Requirement)

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

☐ Yes ☒ No

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

NOAA EFH Fish Mapper.

## 7. Historic or Prehistoric Cultural Resources (Corps Requirement)

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

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

☐ Yes ☒ No

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

MCDC Document: Historic Architecture and Landscapes No Survey Required Form (1/8/2016) and No National Register of Historic Places Eligible or Listed Archaeological Sites Present Form (5/17/16).

## 8. Flood Zone Designation (Corps Requirement)

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

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

☒ Yes ☐ No

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

NCDOT Hydraulics Unit coordination with FEMA.

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

Flood Insurance Rate Mapper (FIRM)

## Miscellaneous

### Comments

The Tar River is designated as Critical Habitat for the Atlantic sturgeon, however the project is above the Rocky Mount Dam and will not have an effect on the Atlantic sturgeon. A Programmatic Biological Opinion (PBO) will be used for Atlantic pigtoe, Dwarf wedgemussel, Tar spiny mussel, and Yellow lance for biological conclusions of May Affect, Likely to Adversely Affect. B-5670 is located in an Identified Stream Reach (ISR) for Tar spiny mussel and Atlantic pigtoe. The PBO will be used for Carolina madtom and Neuse River waterdog for biological conclusions of May Affect, Likely to Adversely Affect and location in an ISR. The PBO will be used for the Northern long-eared bat.

**Please use the space below to attach all required documentation or any additional information you feel is helpful for application review. Documents should be combined into one file when possible, with a Cover Letter, Table of Contents, and a Cover Sheet for each Section preferred.**

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

B-5670 General Nash July 22 2022.pdf

7.06MB

[File must be PDF or KMZ](#)

## Signature

\*

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

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

### Full Name: \*

Mack Christopher Rivenbark, III

### Signature \*

*Mack C. Rivenbark, III*

### Date

7/22/2022

ROY COOPER

Governor

ELIZABETH S. BISER

Secretary

MARC RECKTENWALD

Director



NORTH CAROLINA  
Environmental Quality

April 6, 2022

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

Dear Mr. Harris:

Subject: Mitigation Acceptance Letter:

**B-5670**, Replace Bridge 29 over the Tar River on US 64 Alternative, Nash County

The purpose of this letter is to notify you that the North Carolina Department of Environmental Quality – Division of Mitigation Services (NCDEQ-DMS) will provide the buffer mitigation for the subject project. Based on the information received from you on April 5, 2022, the impacts are located in CU 03020101 of the Tar-Pamlico River basin in the Northern Inner Coastal Plain (NICP) Eco-Region, and are as follows:

Tar-Pamlico 03020103	Stream			Wetlands			Buffer (Sq. Ft.)	
	Cold	Cool	Warm	Riparian	Non-Riparian	Coastal Marsh	Zone 1	Zone 2
Impacts (feet/acres)	0	0	0	0	0	0	4,324.000	1,039.000

All buffer mitigation requests and approvals are administrated through the Riparian Restoration Buffer Fund. The NCDOT will be responsible to ensure that appropriate compensation for the buffer mitigation will be provided in the agreed upon method of fund transfer. Upon receipt of the NCDWR's Buffer Authorization Certification, DMS will transfer funds from the NCDOT 2984 Fund into the Riparian Restoration Buffer Fund. Upon completion of the transfer payment, NCDOT will have complete its riparian buffer mitigation responsibility for TIP B-5670 in Nash County.

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



Sincerely,



for James B. Stanfill  
DMS Asset Management Supervisor

cc: Mr. Monte Matthews, USACE – Raleigh  
Ms. Amy Chapman, NCDWR  
Mr. Brad Chilton, NCDOT – EAU File:  
B-5670



North Carolina Department of Environmental Quality | Division of Mitigation Services  
217 West Jones Street | 1652 Mail Service Center | Raleigh, North Carolina 27699-1652  
919.707.8976

		North Carolina Department of Transportation Highway Stormwater Program STORMWATER MANAGEMENT PLAN FOR NCDOT PROJECTS						
(Version 3.00; Released August 2021)		WBS Element: 45625.1.1		TIP/Proj No: B-5670	County(ies): Nash	Page 1 of 4		
<b>General Project Information</b>								
WBS Element:	45625.1.1	TIP Number:	B-5670	Project Type:	Bridge Replacement	Date:	1/28/2022	
NCDOT Contact:	Kristy Alford	Contractor / Designer:	Leah Young, PE					
Address:	1000 Birch Ridge Dr Raleigh, NC 27610	Address:	4505 Falls of Neuse Road Suite 400 Raleigh, NC 27609					
Phone:	(919) 707-6488	Phone:	(919) 783-9214					
Email:	kalford@ncdot.gov	Email:	Leah.Young@kci.com					
City/Town:	None	County(ies):	Nash					
River Basin(s):	Tar-Pamlico	CAMA County?	No					
Wetlands within Project Limits?	No							
<b>Project Description</b>								
Project Length (lin. miles or feet):	0.22	Surrounding Land Use:	Woods/rural residential					
<b>Proposed Project</b>				<b>Existing Site</b>				
Project Built-Up Area (ac.)	1.0	ac.	0.8		ac.			
Typical Cross Section Description:	12' TRAVEL LANES WITH 6' PAVED SHOULDER AT BRIDGE; 39.25' OUT TO OUT			APPROXIMATE 12' TRAVEL LANES WITH 2' PAVED SHOULDER				
Annual Avg Daily Traffic (veh/hr/day):	Design/Future:	3200	Year:	2040	Existing:	2591	Year:	2020
General Project Narrative: (Description of Minimization of Water Quality Impacts)	<p>This project will replace Nash County Bridge #0029 and its approaches. The proposed replacement is 325' long with a clear roadway width of 36'. This structure provides 2-12' travel lanes with a 6' paved shoulder. The proposed bridge will have 1.5:1 sloping riprap abutments and 4' caps at the end bents. Placement and construction of the proposed bridge, end bents, caps, and associated roadway fill will not result in any permanent jurisdictional stream or similar environmental impacts, although there will 0.24 ac and 34 LF of temporary stream impact for temporary causeway construction. There will be no permanent channel changes due to the bent removal and causeway construction. There will be 0.03 ac and 140 LF of permanent stream impacts due to bank stabilization. There are no wetlands present within the proposed limits of construction.</p> <p>The temporary causeway shall be constructed by others. Allowable stream impacts shown in the plans assume a temporary rock causeway using 2:1 side slopes to achieve an elevation of 145.0' for the line-back side of the bridge (labeled as phase I) and an elevation of 145.0' for the line-ahead side of the bridge (labeled as phase II). This results a 30 LF workpad to facilitate existing bridge removal and proposed bridge installation. Phase I allows for removal of existing bents #1, 2, 3, &amp; 4 and the installation of proposed bents #1 &amp; 2. Phase II allows for the removal of existing bents #5, 6, 7, &amp; 8 and the installation of proposed bents #3, 4, &amp; 5. No more than 50% of the main channel flow area may be blocked during any phase.</p> <p>There are 30' and 50' buffer zones present outside the existing stream. There are no wetland impacts within buffer zones. There is a proposed ditch within buffer zone 1 due to existing erosion and instability. Sheet flow was not feasible at this location. The proposed ditch stabilizes the flow area and does not change existing flow patterns. Please refer to the "Swales" tab for more information.</p> <p>STORMWATER CONTROLS: The proposed bridge does not require deck drains. The runoff from the bridge discharges through pipe/inlet systems on the eastern quadrant of the bridge outside of the jurisdictional stream at non-erosive velocities. In all bridge quadrants, roadway runoff is treated via vegetated roadway shoulders and existing/proposed vegetated/riprap swales prior to entering the stream. Dissipator pads were used outside buffer zones when possible to promote sheet flow to buffer zones.</p>							

 <div style="text-align: center;"> <b>North Carolina Department of Transportation</b>  <b>Highway Stormwater Program</b>  <b>STORMWATER MANAGEMENT PLAN</b>  <b>FOR NCDOT PROJECTS</b> </div> 									
(Version 3.00; Released August 2021)									
WBS Element: 45625.1.1		TIP/Proj No.: B-5670		County(ies): Nash		Page 2 of 4			
General Project Information									
Waterbody Information									
Surface Water Body (1):		Tar River			NCDWR Stream Index No.:		28-(24.7)b		
NCDWR Surface Water Classification for Water Body				Primary Classification:		Water Supply V (WS-V)			
				Supplemental Classification:		Nutrient Sensitive Waters (NSW)			
Other Stream Classification:		None							
Impairments:		None							
Aquatic T&E Species?		No		Comments:					
NRTR Stream ID:		N/A				Buffer Rules in Effect:		Tar-Pamlico	
Project Includes Bridge Spanning Water Body?		Yes		Deck Drains Discharge Over Buffer?		No		Dissipator Pads Provided in Buffer?	
Deck Drains Discharge Over Water Body?		No		(If yes, provide justification in the General Project Narrative)		(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)			
		(If yes, provide justification in the General Project Narrative)							
Surface Water Body (2):					NCDWR Stream Index No.:				
NCDWR Surface Water Classification for Water Body				Primary Classification:					
				Supplemental Classification:					
Other Stream Classification:									
Impairments:									
Aquatic T&E Species?				Comments:					
NRTR Stream ID:						Buffer Rules in Effect:			
Project Includes Bridge Spanning Water Body?				Deck Drains Discharge Over Buffer?				Dissipator Pads Provided in Buffer?	
Deck Drains Discharge Over Water Body?				(If yes, provide justification in the General Project Narrative)		(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)			
		(If yes, provide justification in the General Project Narrative)							
Surface Water Body (3):					NCDWR Stream Index No.:				
NCDWR Surface Water Classification for Water Body				Primary Classification:					
				Supplemental Classification:					
Other Stream Classification:									
Impairments:									
Aquatic T&E Species?				Comments:					
NRTR Stream ID:						Buffer Rules in Effect:			
Project Includes Bridge Spanning Water Body?				Deck Drains Discharge Over Buffer?				Dissipator Pads Provided in Buffer?	
Deck Drains Discharge Over Water Body?				(If yes, provide justification in the General Project Narrative)		(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)			
		(If yes, provide justification in the General Project Narrative)							

Additional Comments



**CONTRACT:**



***NASH COUNTY***

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

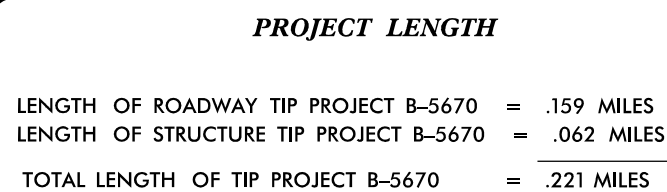
# WETLAND AND STREAM IMPACTS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5670	1	
STATE PROJ.NO.	F.A.PROJ.NO.	DESCRIPTION	
45625.1.1		P.E.	
45625.2.1		ROW/UTIL	



**INCOMPLETE PLANS**  
DO NOT USE FOR R/W ACQUISITION

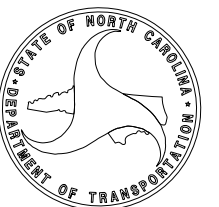
**DOCUMENT NOT CONSIDERED FINAL**  
**UNLESS ALL SIGNATURES COMPLETED**



***NCDOT CONTACT:***

**KRISTY ALFORD, P.E.**  
**STRUCTURES MANAGEMENT UNIT**

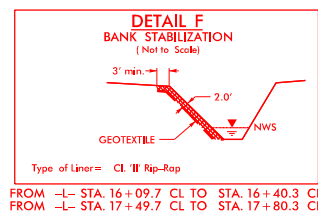
SIGNATURE: P.E.



2/21/2022  
M:\2018\2518019

NAD 83/2011

NOTE: TEMPORARY STREAM IMPACTS ARE DUE TO CAUSEWAY CONSTRUCTION. NO MORE THAN 50% OF THE MAIN CHANNEL FLOW AREA MAY BE BLOCKED DURING ANY PHASE. CAUSEWAY FINAL DESIGN BY OTHERS (TBD).



FOR -L- PROFILE SEE SHEET 5

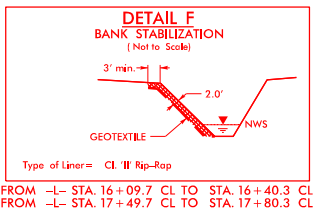
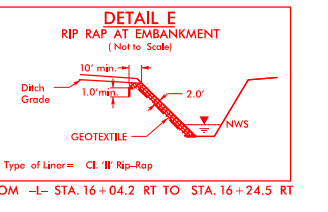
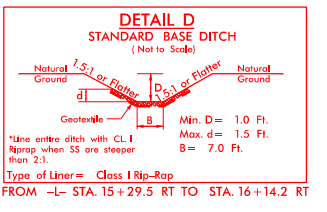
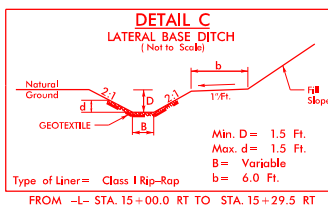
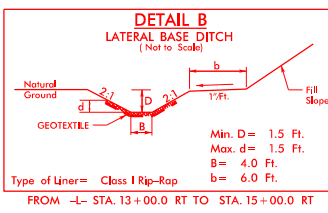
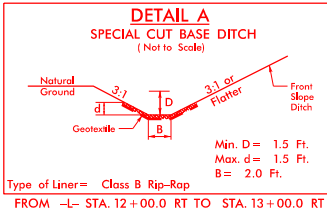
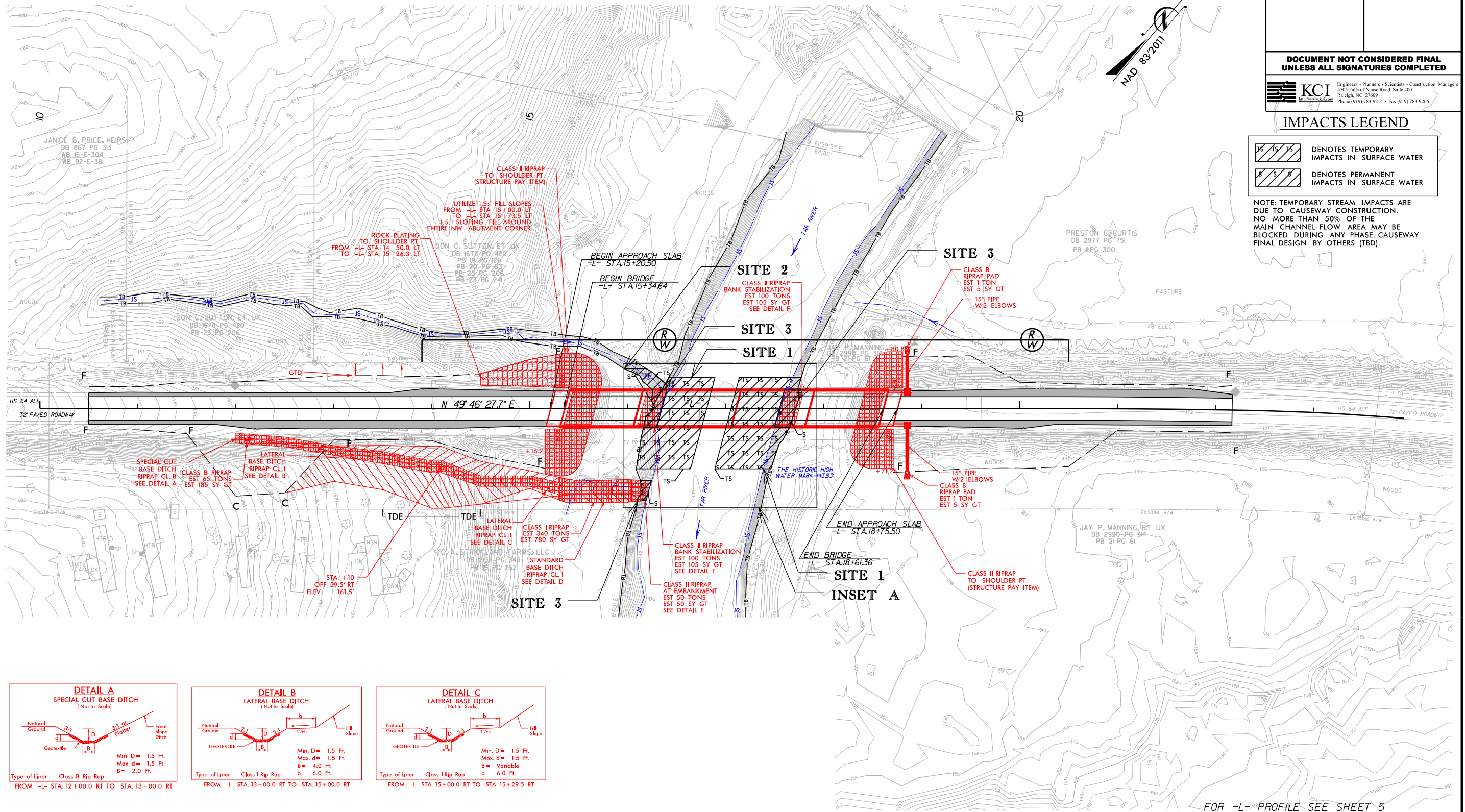
PERMIT DRAWING  
SHEET 3 OF 6

PROJECT REFERENCE NO.	SHEET NO.
B-5670	PRM-3
RW SHEET NO.	4
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
KCI Engineers • Planners • Scientists • Construction Managers 4305 Falls of Neuse Road, Suite 400 Raleigh, NC 27609 Phone (919) 783-9214 • Fax (919) 783-9266	

IMPACTS LEGEND

	DENOTES TEMPORARY IMPACTS IN SURFACE WATER
	DENOTES PERMANENT IMPACTS IN SURFACE WATER

NOTE: TEMPORARY STREAM IMPACTS ARE DUE TO CAUSEWAY CONSTRUCTION. NO MORE THAN 50% OF THE MAIN CHANNEL FLOW AREA MAY BE BLOCKED DURING ANY PHASE. CAUSEWAY FINAL DESIGN BY OTHERS (TBD).



FOR -L- PROFILE SEE SHEET 5

REVISIONS

8/17/99

2/2/2022 5:18:01 PM 23 B-5670-Hydraulics PERMITS-Environmental Wetland Impacts Drawings B-5670-prm.psh.con.dgn

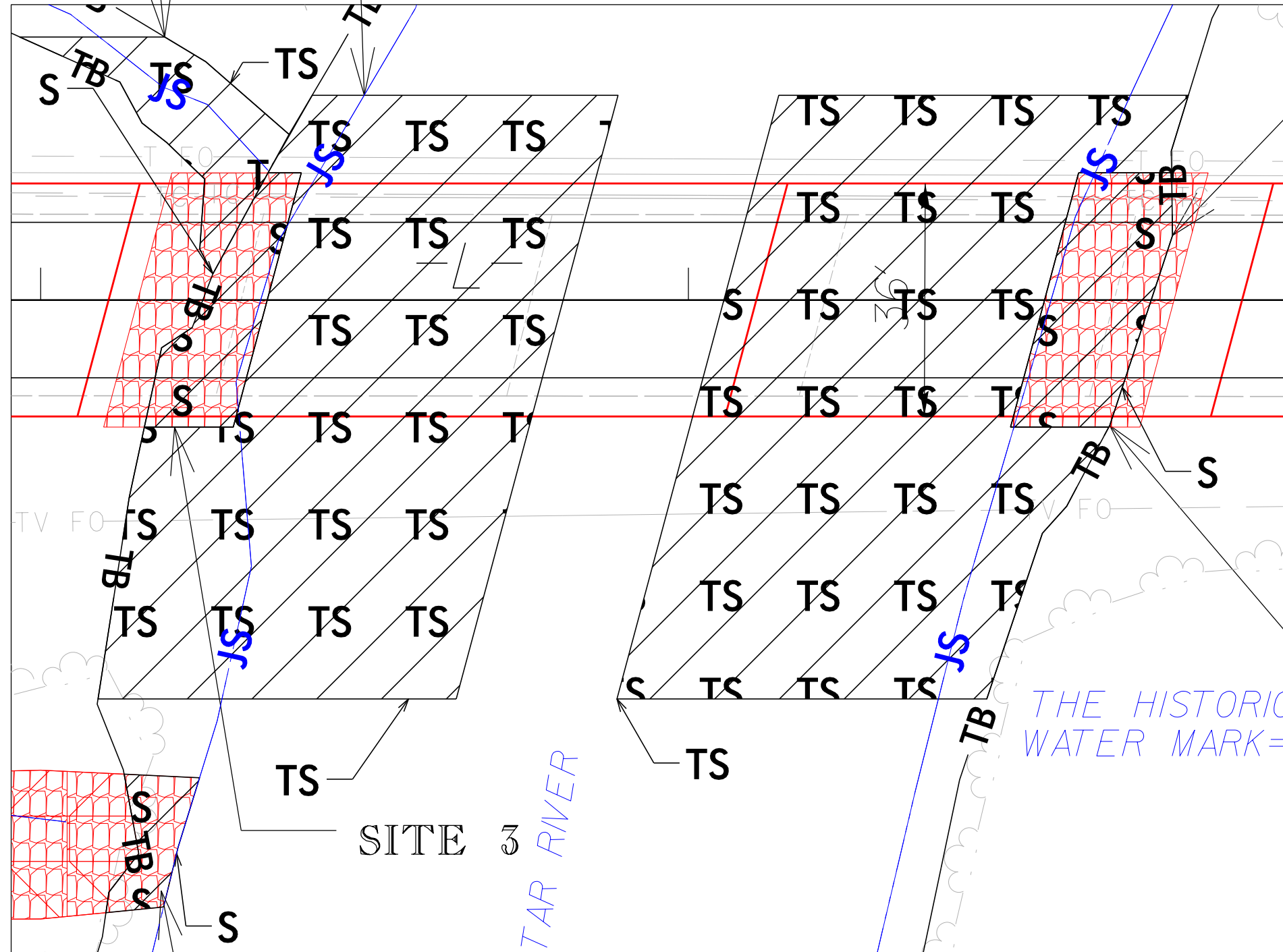
8/17/99

SITE 1  
SITE 2

# INSET A

PERMIT DRAWING  
SHEET 4 OF 6

PROJECT REFERENCE NO. B-5670	SHEET NO. PRM-4
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



SITE 3

SITE 1

SITE 3

## IMPACTS LEGEND

	DENOTES TEMPORARY IMPACTS IN SURFACE WATER
	DENOTES PERMANENT IMPACTS IN SURFACE WATER

NOTE: TEMPORARY STREAM IMPACTS ARE DUE TO CAUSEWAY CONSTRUCTION. NO MORE THAN 50% OF THE MAIN CHANNEL FLOW AREA MAY BE BLOCKED DURING ANY PHASE. CAUSEWAY FINAL DESIGN BY OTHERS (TBD).

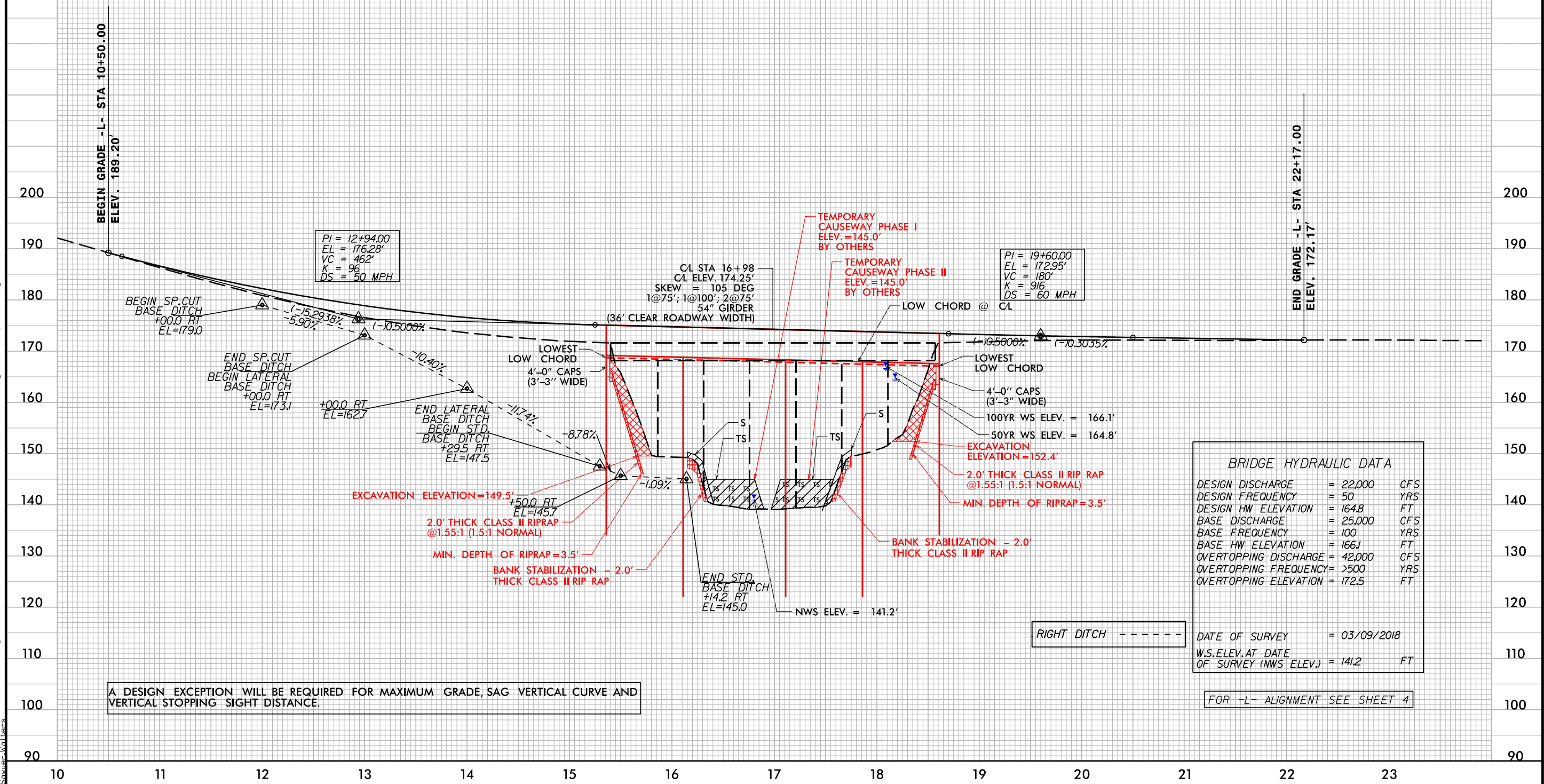
2/2/2022 2:51:18 PM 1945.23 B-5670 Hydrolics\PERMITS\Environmental\Wetland Impacts\Drawings\B-5670\_prm-Inset-A.dgn  
Sawyer, Walters

PROJECT REFERENCE NO.		SHEET NO.
B-5670		PRM-5
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

PERMIT DRAWING  
SHEET 5 OF 6

TBM #2 - RR SPIKE IN BASE OF 30" PINE  
-L- STA. 18+92.75, 68.36' LT  
EL = 158.60'

NOTE: NO MORE THAN 50% OF THE  
MAIN CHANNEL FLOW AREA MAY BE  
BLOCKED DURING ANY PHASE. CAUSEWAY  
FINAL DESIGN BY OTHERS (TBD).



A DESIGN EXCEPTION WILL BE REQUIRED FOR MAXIMUM GRADE, SAG VERTICAL CURVE AND VERTICAL STOPPING SIGHT DISTANCE.

FOR -L- ALIGNMENT SEE SHEET 4

WETLAND PERMIT IMPACT SUMMARY												
Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS					SURFACE WATER IMPACTS				
			Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
1	-L- 16+09 TO 17+75	TEMPORARY CAUSEWAY CONSTRUCTION							0.23		68	
2	-L- 15+96 LT TO 16+38 LT	TEMPORARY CAUSEWAY CONSTRUCTION							0.01		34	
3	-L- 16+16 TO 17+75 & -L- 16+10 RT TO- 16+23 RT	BANK STABILIZATION						0.03		140		
TOTALS*:								0.03	0.24	140	102	0

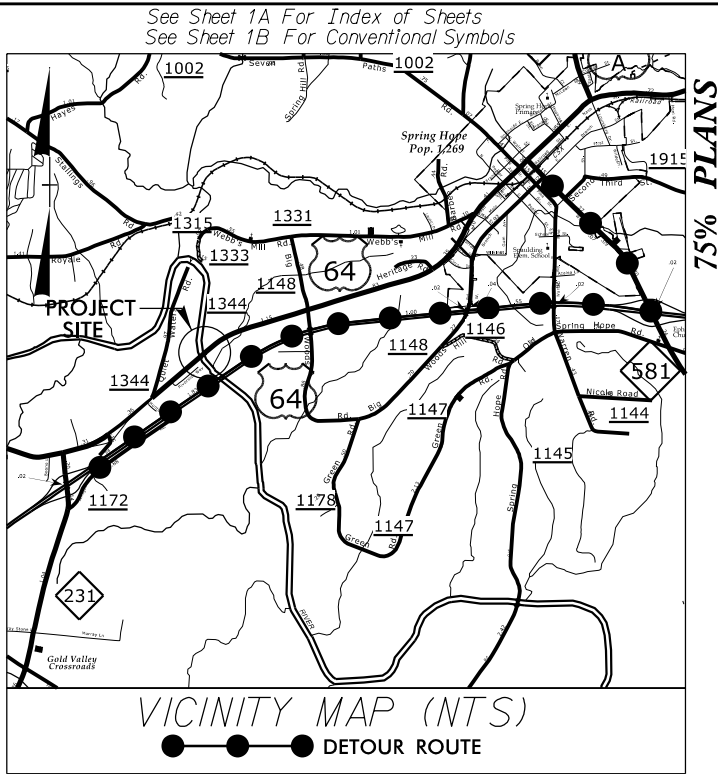
\*Rounded totals are sum of actual impacts

NOTES:

NC DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
February 2022  
Nash  
B-5670  
45625.1.1

TIP PROJECT: B-5670

CONTRACT:



STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

# NASH COUNTY

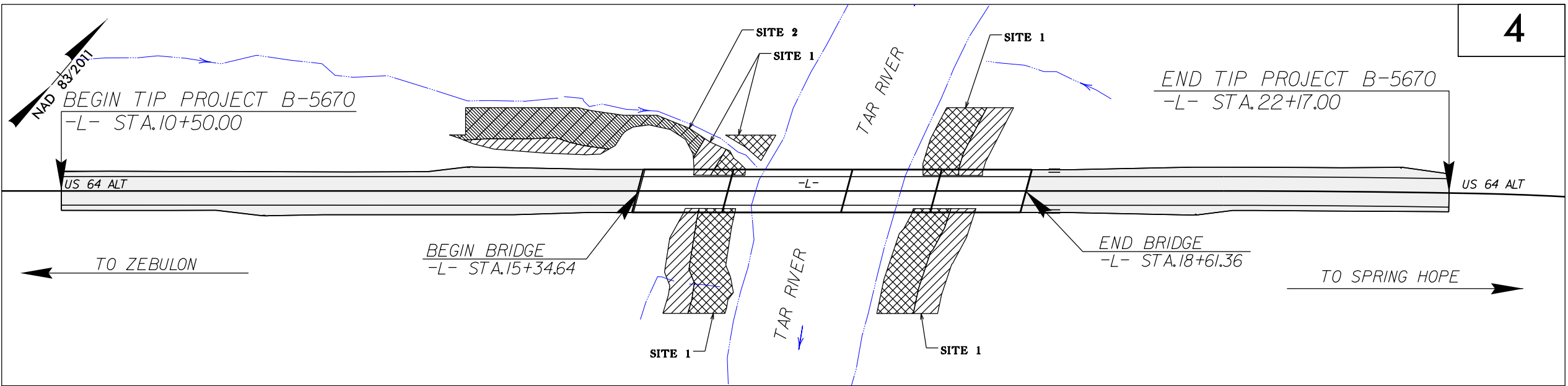
LOCATION: REPLACE BRIDGE NO. 29 OVER  
TAR RIVER ON US 64 ALT

TYPE OF WORK: GRADING, DRAINAGE, PAVING AND STRUCTURE

BUFFER IMPACT  
PERMITS

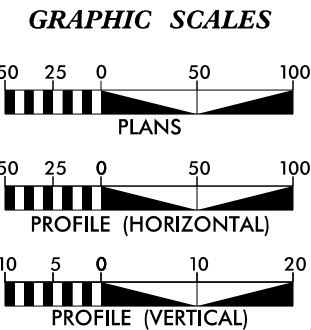
BUFFER DRAWING  
SHEET 1 OF 3

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5670	1	
STATE PROJ. NO.	P.A. PROJ. NO.	DESCRIPTION	
45625.1.1		P.E.	
45625.2.1		ROW/UTIL	



A DESIGN EXCEPTION WILL BE REQUIRED FOR MAXIMUM GRADE, SAG VERTICAL CURVE AND VERTICAL STOPPING SIGHT DISTANCE.  
THIS PROJECT IS NOT WITHIN MUNICIPAL BOUNDARIES.  
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.

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



DESIGN DATA

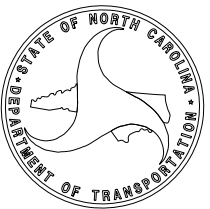
ADT 2022 =	2652
ADT 2042 =	3261
K =	8 %
D =	55 %
T =	6 % *
V =	60 MPH
* TTST =	2% DUAL = 4%
MAJOR COLLECTOR	
REGIONAL TIER	

PROJECT LENGTH

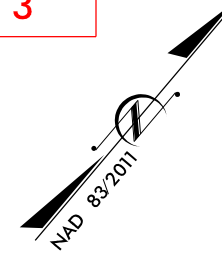
LENGTH OF ROADWAY TIP PROJECT B-5670	=	.159 MILES
LENGTH OF STRUCTURE TIP PROJECT B-5670	=	.062 MILES
TOTAL LENGTH OF TIP PROJECT B-5670	=	.221 MILES


Prepared in the Office of:  KCI Associates of N.C., P.A. 4505 Falls of Neuse Road, Suite 400 Raleigh, NC 27609 Phone (919) 783-9214 Fax (919) 783-9266	Plans Prepared For: DIVISION OF HIGHWAYS 1000 Birch Ridge Dr. Raleigh NC, 27610
2018 STANDARD SPECIFICATIONS	DEWAYNE L. SYKES, P.E. PROJECT ENGINEER
RIGHT OF WAY DATE: DEC. 21, 2021	BRYAN E. HOUGH, P.E. PROJECT DESIGN ENGINEER
LETTING DATE: NOV. 15, 2022	
NCDOT CONTACT:	KRISTY ALFORD, P.E. STRUCTURES MANAGEMENT UNIT





HYDRAULICS ENGINEER
SIGNATURE: _____ P.E.
ROADWAY DESIGN ENGINEER
SIGNATURE: _____ P.E.

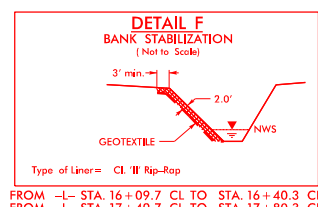
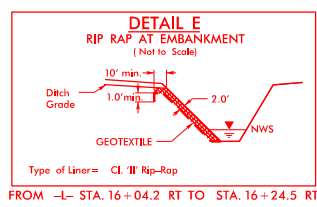
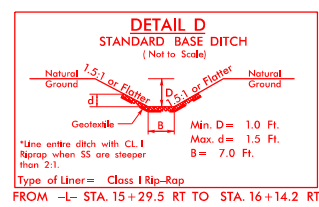
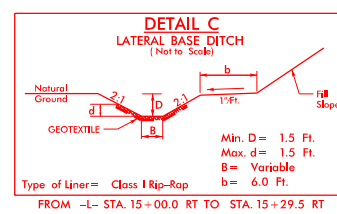
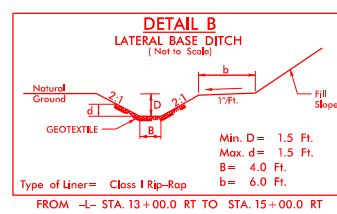
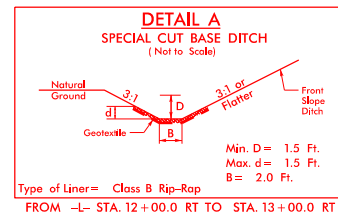
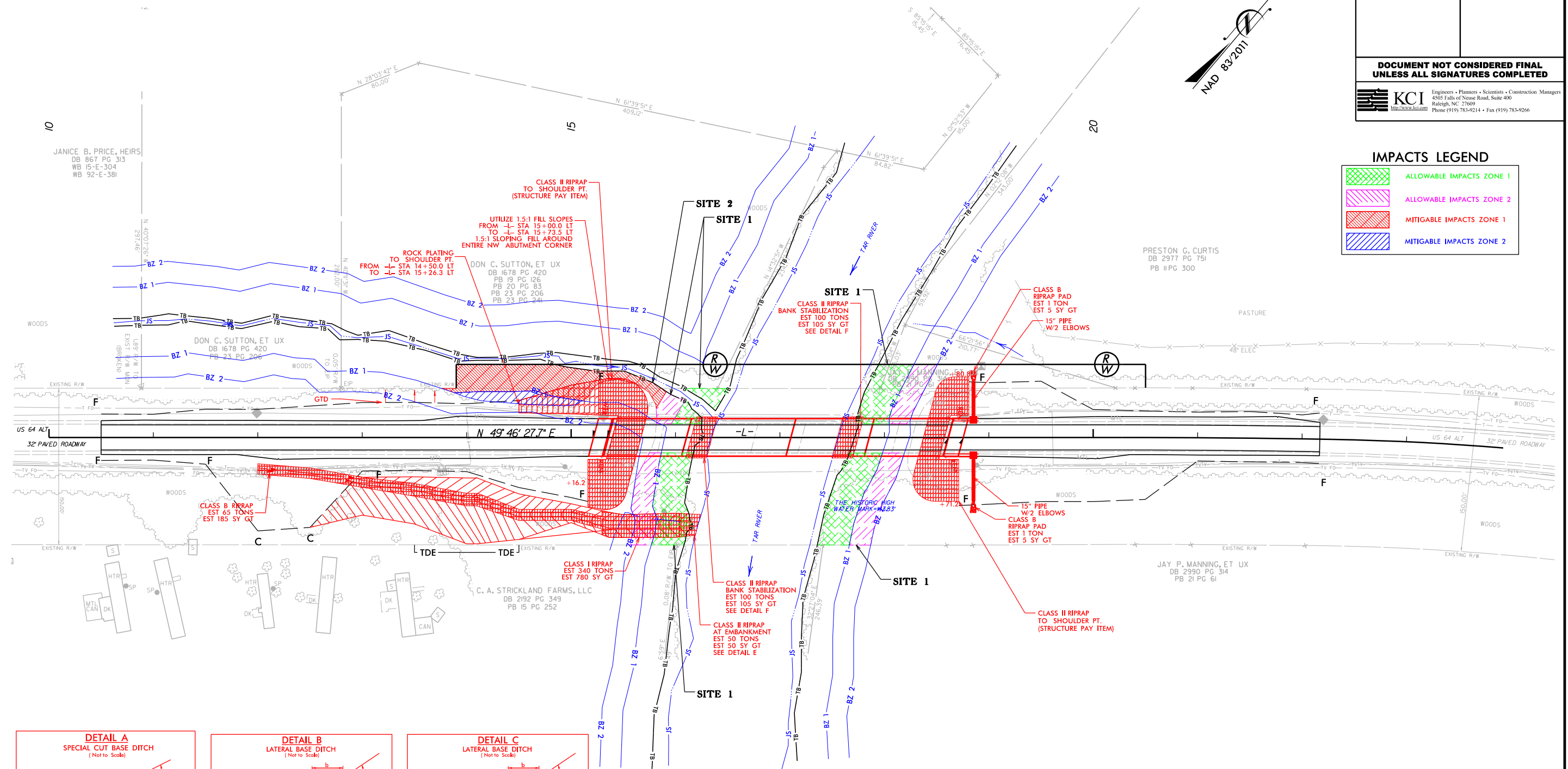


BUFFER DRAWING  
SHEET 2 OF 3



PROJECT REFERENCE NO.		SHEET NO.	
B-5670		BUF-2	
R/W SHEET NO.		4	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
 KCI <a href="http://www.kci.com">http://www.kci.com</a>		Engineers • Planners • Scientists • Construction Managers 4505 Falls of Neuse Road, Suite 400 Raleigh, NC 27609 Phone (919) 783-9214 • Fax (919) 783-9266	

IMPACTS LEGEND	
	ALLOWABLE IMPACTS ZONE 1
	ALLOWABLE IMPACTS ZONE 2
	MITIGABLE IMPACTS ZONE 1
	MITIGABLE IMPACTS ZONE 2



# **BUFFER IMPACTS SUMMARY**

			IMPACT									BUFFER REPLACEMENT	
SITE NO.	STRUCTURE SIZE / TYPE	STATION (FROM/TO)	TYPE			ALLOWABLE			MITIGABLE				
			ROAD CROSSING	BRIDGE	PARALLEL IMPACT	ZONE 1 (ft <sup>2</sup> )	ZONE 2 (ft <sup>2</sup> )	TOTAL (ft <sup>2</sup> )	ZONE 1 (ft <sup>2</sup> )	ZONE 2 (ft <sup>2</sup> )	TOTAL (ft <sup>2</sup> )	ZONE 1 (ft <sup>2</sup> )	ZONE 2 (ft <sup>2</sup> )
1	BRIDGE	15+57 TO 18+51		X		8208.0	5371.0	13579.0	0.0	0.0	0.0		
2	PARALLEL	13+77 TO 15+91 LT			X	0.0	0.0	0.0	4324.0	1039.0	5363.0		

N.C. DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS

NASH COUNTY  
PROJECT: B-5670

February 2022  
SHEET 3 OF 3

Rev. May 2006