

C Yes



## **Pre-Construction Notification (PCN) Form**

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

September 29, 2018 Ver 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.

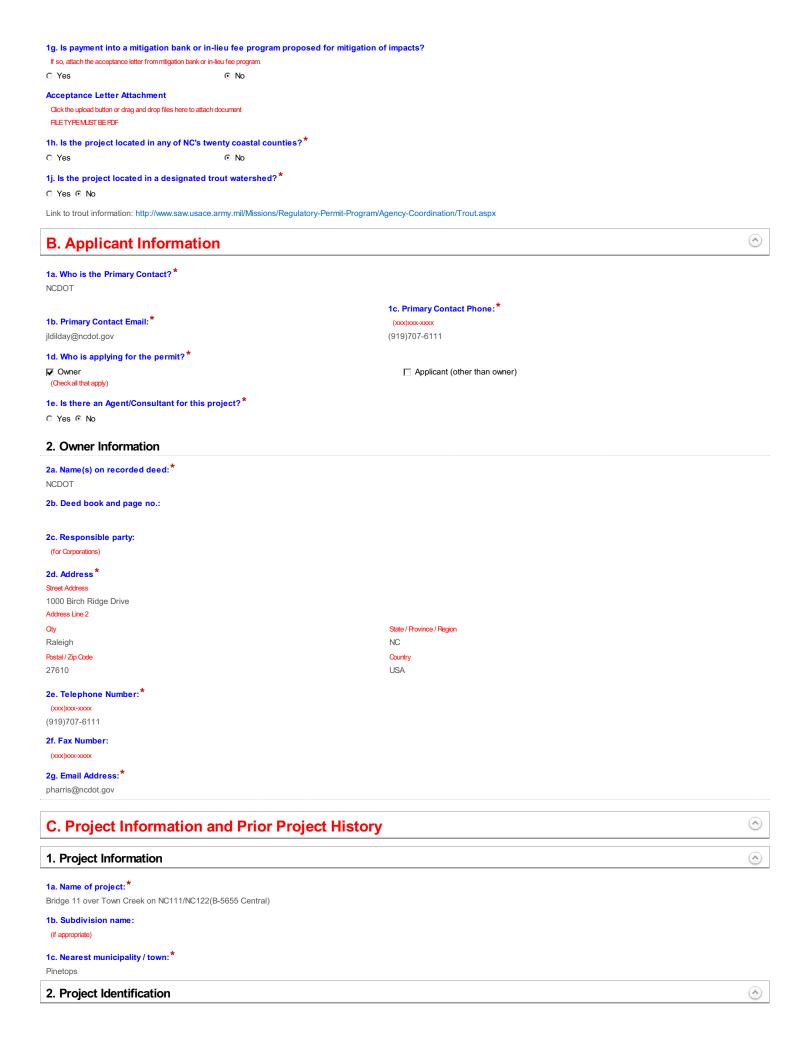
Also, if at any point you wish to print a copy of the E-PCN, all you need to do is right-click on the document and you can print a copy of the form.

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

⊙ No

A. Processing Information		⊚
County (or Counties) where the project is located	<b>.*</b>	
Edgecombe		
Is this project a public transportation project?*		
⊙ Yes C No		
This is any publicly funded by municipal, state or federal funds road, ra	il, airport transportation project.	
Is this a NCDOT Project? *		
⊙ Yes ℂ No		
(NCDOT only) T.I.P. or state project number:		
B-5655		
WBS#*		
45610.1.1 (for NODOT use only)		
1a. Type(s) of approval sought from the Corps:*	Class Motor Ast)	
<ul><li>Section 404 Permit (wetlands, streams and waters, C</li><li>Section 10 Permit (navigable waters, tidal waters, Ri</li></ul>		
1b. What type(s) of permit(s) do you wish to seek a	authorization?*	
✓ Nationwide Permit (NWP)		
Regional General Permit (RGP)		
Standard (IP)		
		ease contact your Corps representative concerning submittals for standard permits. All required items that the miscellaneous upload area located at the bottom of this form.
1c. Has the NWP or GP number been verified by th	ne Corps?*	
○ Yes ⊙ No		
Nationwide Permit (NWP) Number:	03 - Maintenance	
NWP Numbers (for multiple NWPS):		
List all NW numbers you are applying for not on the drop down list.		
1d. Type(s) of approval sought from the DWR:*		
check all that apply		E 404 Water Our the Out for the Europe
<ul> <li></li></ul>		<ul><li>☐ 401 Water Quality Certification - Express</li><li>☑ Riparian Buffer Authorization</li></ul>
1e. Is this notification solely for the record because	se written approval is not require	d?
		*
For the record only for DWR 401 Certification:		C Yes € No
For the record only for Corps Permit:		○ Yes ⓒ No
1f. Is this an after-the-fact permit application?*		



2a. Property Identification Number: (tax PNor parcel ID)

2b. Property size:

(in acres)

2c. Project Address

Street Address

Address Line 2

City State / Province / Regin

Postal / Zip Code 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.)

#### 3. Surface Waters

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

Town Creek

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

C: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.\*

030201030107

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:

Land use in the project vicinity consists primarily of agricultural fields interspersed with forestland along the stream corridors.

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

○ Yes ⊙ No ○ Unknown

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

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

File type must be pdf

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

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

File type must be po

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

0.5

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

(intermittent and perennial)

330

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

The purpose of this project is to replace a structurally deficient bridge.

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

This project involves replacing the 195-foot, 6 span with a 215-foot, 3 span bridge on existing alignment using an off-site detour. Standard road building equipment, such as trucks, dozers and cranes will be used.

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

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

 B-5655 Permit Drawings.pdf
 2.99MB

 B-5655 Buffer Drawings.pdf
 1.03MB

File type must be pdf

## 5. Jurisdictional Determinations

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

#### Comments:

A preliminary JD package is attached

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

C Preliminary C Approved C Not Verified C Unknown C N/A

Corps AID Number:

Example: SAW-2017-99999

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

Name (if known): Beth Reed

Agency/Consultant Company: Kimley Horn

Other:

5d1. Jurisdictional determination upload

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

TIP B5655 PreliminaryJD Request.pdf

File type must be PDF

## 6. Future Project Plans

6a. Is this a phased project?\*

O Yes

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.

9.65MB

## D. Proposed Impacts Inventory

(^)

### 1. Impacts Summary

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

✓ Wetlands✓ Streams-tributaries✓ Deen Waters✓ Pond Construction

## 2. Wetland Impacts

If there are wetland impacts proposed on the site, then complete this question for each wetland area impacted.

"W." will be used in the table below to represent the word "wetland".

2a. Site #* (?)	2a1 Reason * (?)	2b. Impact type * (?)	2c. Type of W.*	2d. W. name *		<b>4</b> (0)	2g. Impact area *
Site 2	Mechanized Clearing	Р	Bottomland Hardwood Forest	WA	Yes	Both	0.008 (acres)
Site 2	Fill	Р	Bottomland Hardwood Forest	WA	Yes	Both	0.003 (acres)
Site 3	Mechanized Clearing	Р	Bottomland Hardwood Forest	WA	No	Both	0.024 (acres)
Site 4	Excavation	Р	Bottomland Hardwood Forest	WA	No	Both	0.002 (acres)
Site 4	Mechanized Clearing	Р	Bottomland Hardwood Forest	WA	No	Both	0.001 (acres)

### 2g. Total Temporary Wetland Impact

0.000

#### 2g. Total Permanent Wetland Impact

0.038

#### 2g. Total Wetland Impact

0.038

### 2h. Comments:

A portion of the wetland impacts include the removal of the old roadway bed for hydraulic purposes. The roadway bed itself is outside of the wetland, but there will be clearing town to the banks. The mechanized clearing has been taken to the easement line.

### 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.

	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	Bent Removal	Temporary	Dewatering	Town Creek	Perennial	Both	90 Average (feet)	25 (linear feet)

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

3i	Total juri	sdictional	ditch is	mnact in	sauare 1	eet

0

3i. Total permanent stream impacts:

1

3i. Total temporary stream impacts:

25

3i. Total stream and ditch impacts:

25

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     Neuse	▼ Tar-Pamlico
□ Catawba	☐ Randleman
Goose Creek	Jordan Lake
Other	

6b. Impact Type * (?)	6c. Per or Temp*(?)	6d. Stream name *	6e. Buffer mitigation required?*	6f. Zone 1 impact *	6g. Zone 2 impact*
Bridge-Allowable	Р	Town Creek	No	7,141 (square feet)	1,730 (square feet)
Road Crossing-Allowable	P	Town Creek	No	4,202 (square feet)	3,668 (square feet)

## 6h. Total buffer impacts:

	Zone 1	Zone 2
Total Temporary impacts:	0.00	0.00
B		
	Zone 1	Zone 2
Total Permanent impacts:	11,343.00	5,398.00
<b>K</b>		
	Zone 1	Zone 2
Total combined buffer impacts:	11,343.00	5,398.00

#### 6i. Comments:

Road crossing impacts on the west side of bridge are predominately from the removal of an old roadway. This area will be graded to surrounding elevations and revegetated with native species.

Supporting Documentation - i.e. Impact Maps, Plan Sheet, etc.

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

File must be PDF

## 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:\*

There will be no permanent impact to jurisdictional streams from this project. The only in-water permanent impact is due to interior bents (2). See stormwater management plan for more information.

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

NCDOT's Design Standards in Sensitive Watersheds will be employed during construction. An off-site detour will be used during construction.

#### 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?

© No

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

Impacts for this project are minimal and compensatory mitigation is not proposed

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

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

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

#### 1. Diffuse Flow Plan

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

⊙ Yes C 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)

☐ 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.

#### **Diffuse Flow Documentation**

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

File type must be PDF

## 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 C 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 O N

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 C N

NEPA or SEPA Final Approval Letter

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

FILETYPEMUST BEPDF

## 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)?\*

C 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?\*

C Yes	⊙ No						
3b. If you answered "no," provide a short narrative description.  Due to the minimal transportation impact resulting from this bridge replacement, this project will neither influence nearby land uses nor stimulate growth. Therefore, a detailed indirect or cumulative effects study will not be necessary.							
4. Sewage Disposal (DWR Re	equirement)						
4a. Is sewage disposal required by DWR fo ○ Yes ○ No ⊙ N/A	r this project?*						
5. Endangered Species and D	Designated Critical Habitat (Corps Requirement)						
5a. Will this project occur in or near an are	a with federally protected species or habitat? *						
• Yes	C No						
• Yes	cerning Endangered Species Act impacts?*  © No						
<b>5c. If yes, indicate the USFWS Field Office</b> Raleigh	you have contacted.						
5d. Is another Federal agency involved?*	- "						
O Yes	⊙ No	C Unknown					
5e. Is this a DOT project located within Div  ⊙ Yes ○ No	sion's 1-8? "						
N.C. Natural Heritage Program database; USFV which include red-cockaded woodpecker (RCW exists within the study area, however no specim conclusions of No Effect. Habitat for the bald ea	5j. What data sources did you use to determine whether your site would impact Endangered Species or Designated Critical Habitat?*  N.C. Natural Heritage Program database; USFWS-Raleigh Field Office website; biological surveys for protected species listed for Edgecombe County, which include red-cockaded woodpecker (RCW), dwarf wedgemussel, Tar River spinymussel and yellow lance. Habitat for the Tar River spinymussel exists within the study area, however no specimens were observed during surveys conducted on July 3, 2019. All species received biological conclusions of No Effect. Habitat for the bald eagle is present within 1.0 mile of the study area, however no birds or nests were observed within 660 feet of the study area on July 2016. The Northern long-eared bat is addressed by the PBO.						
Consultation Documentation Upload  Click the upload button or drag and drop files here to attach  File type must be PDF	document						
6. Essential Fish Habitat (Cor	ps Requirement)						
6a. Will this project occur in or near an are	a designated as an Essential Fish Habitat?*						
C Yes	⊙ No						
<b>6b. What data sources did you use to deter</b> NMFS county index	rmine whether your site would impact an Essential Fish Habitat? *						
7. Historic or Prehistoric Cult	ural Resources (Corps Requirement)						
Link to the State Historic Preservation Office His	storic Properties Map (does not include archaeological data: http://gis.ncdcr.gov/h	poweb/					
	a that the state, federal or tribal governments have designated as having in North Carolina history and archaeology)? *	historic or cultural preservation status (e.g., National Historic					
C Yes	⊙ No						
<b>7b. What data sources did you use to deter</b> NEPA documentation	rmine whether your site would impact historic or archeological resources'	?*					
7c. Historic or Prehistoric Information Uplo Cick the upload button or drag and drop files here to attach File must be PDF							
8. Flood Zone Designation (Co	orps Requirement)						
Link to the FEMA Floodplain Maps: https://r	nsc.fema.gov/portal/search						
8a. Will this project occur in a FEMA-design	nated 100-year floodplain?*  O No						
<b>8b. If yes, explain how project meets FEM.A</b> NCDOT Hydraulics Unit coordination with FEMA							
8c. What source(s) did you use to make the FEMA maps	floodplain determination?*						

## **Miscellaneous**



#### Comments

#### Miscellaneous attachments not previously requested.

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

File must be PDF or KIVIZ

## Signature



## ${\ensuremath{\overline{\hspace{-.05cm} \mathcal{U}}}}$ By checking the box and signing below, I certify that:

- 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. Riverbank, III

#### Date

10/24/2019



This form is intended for use by anyone requesting a jurisdictional determination (JD) from the U.S. Army Corps of Engineers, Wilmington District (Corps). Please include all supporting information, as described within each category, with your request. You may submit your request to the appropriate Corps Field Office (or project manager, if known) via mail, electronic mail, or facsimile. A current list of county assignments by Field Office and project manager can be found on-line at: <a href="http://www.saw.usace.army.mil/Missions/RegulatoryPermitProgram.aspx">http://www.saw.usace.army.mil/Missions/RegulatoryPermitProgram.aspx</a>, by telephoning: 910-251-4633, or by contacting any of the field offices listed below:

## ASHEVILLE REGULATORY FIELD OFFICE

US Army Corps of Engineers 151 Patton Avenue, Room 208

Asheville, North Carolina 28801-5006 General Number: (828) 271-7980

Fax Number: (828) 281-8120

## RALEIGH REGULATORY FIELD OFFICE

US Army Corps of Engineers 3331 Heritage Trade Drive, Suite 105 Wake Forest, North Carolina 27587 General Number: (919) 554-4884 Fax Number: (919) 562-0421

### WASHINGTON REGULATORY FIELD OFFICE

US Army Corps of Engineers 2407 West Fifth Street

Washington, North Carolina 27889 General Number: (910) 251-4610 Fax Number: (252) 975-1399

### WILMINGTON REGULATORY FIELD OFFICE

US Army Corps of Engineers 69 Darlington Avenue

Wilmington, North Carolina 28403

General Number: 910-251-4633 Fax Number: (910) 251-4025

## INSTRUCTIONS:

All requestors must complete Parts A, B, C, D, E and F.

NOTE TO CONSULTANTS AND AGENCIES: If you are requesting a JD on behalf of a paying client or your agency, please note the specific submittal requirements in **Part G**.

<u>NOTE ON PART D – PROPERTY OWNER AUTHORIZATION:</u> Please be aware that all JD requests must include the current property owner authorization for the Corps to proceed with the determination, which may include inspection of the property when necessary. This form must be signed by the current property owner to be considered a complete request.

NOTE ON PART D - NCDOT REQUESTS: Property owner authorization/notification for JD requests associated with North Carolina Department of Transportation (NCDOT) projects will be conducted according to the current NCDOT/USACE protocols.

NOTE TO USDA PROGRAM PARTICIPANTS: A Corps approved or preliminary JD may not be valid for the wetland conservation provisions of the Food Security Act of 1985. If you or your tenant are USDA Program participants, or anticipate participation in USDA programs, you should also request a certified wetland determination from the local office of the Natural Resources Conservation Service, prior to starting work.

Street Address:	N/A Linear Transportation Project						
City, State:	Pinetops, North Carolina						
County:	Edgecombe						
Directions:	See Figure 1: Vicinity Map						
Parcel Index Number	r(s) (PIN): N/A (Linear Transportation Project)						
REQUESTOR INFO	ORMATION						
Name:	NCDOT; ATTN: Chris Rivenbark, Natural Environment Section						
Mailing Address:	1598 Mail Service Center; Raleigh, NC 27699-1598						
Telephone Number:	(919) 707-6152						
Electronic Mail Addr	ress <sup>1</sup> : crivenbark@ncdot.gov						
Select one:	Select one:						
✓ I am the current property owner.							
I am an Autho	orized Agent or Environmental Consultant <sup>2</sup>						
Interested Buy	Interested Buyer or Under Contract to Purchase						
Other, please	explain.						
DDODEDTV AWNI	ER INFORMATION						
INOIENIIOWNI							
Name:	NCDOT; ATTN: Chris Rivenbark, Natural Environment Section						
	1598 Mail Service Center						
Name: Mailing Address:	1598 Mail Service Center Raleigh, NC 27699-1598						
Name: Mailing Address: Telephone Number:	1598 Mail Service Center Raleigh, NC 27699-1598 (919) 707-6152						
Name: Mailing Address:	1598 Mail Service Center Raleigh, NC 27699-1598 (919) 707-6152						
Name: Mailing Address: Telephone Number: Electronic Mail Addr	1598 Mail Service Center Raleigh, NC 27699-1598 (919) 707-6152						
Name: Mailing Address: Telephone Number: Electronic Mail Addr	1598 Mail Service Center Raleigh, NC 27699-1598  (919) 707-6152  crivenbark@ncdot.gov						
Name: Mailing Address: Telephone Number: Electronic Mail Addr	1598 Mail Service Center Raleigh, NC 27699-1598  (919) 707-6152  crivenbark@ncdot.gov						

### PROPERTY OWNER CERTIFICATION<sup>4</sup> D.

I, the undersigned, a duly authorized owner of record of the property/properties identified herein do authorize representatives of the Wilmington District, U.S. Army Corps of Engineers (Corps) to enter upon the property herein described for the purpose of conducting on-site investigations and issuing a determination associated with Waters of the U.S. subject to Federal jurisdiction under Section 404 of the Clean Water Act and/or Section 10 of the Rivers and Harbors Act of 1899.						
Property Owner (please print)  Date						
Property Owner Signature						
E. JURISDICTIONAL DETERMINATION TYPE						
Select One:						
I am requesting that the Corps provide a <u>preliminary</u> JD for the property id This request does include a delineation.	lentified herein					
I am requesting that the Corps provide a <u>preliminary</u> JD for the property id This request does NOT include a delineation.	lentified herein					
I am requesting that the Corps investigate the property/project area for the absence of WoUS <sup>5</sup> and provide an <u>approved JD</u> for the property identified request does NOT include a request for a verified delineation.	-					
I am requesting that the Corps delineate the boundaries of all WoUS on a parea and provide an approved JD (this may or may not include a survey plant and provide an approved JD (this may or may not include a survey plant and provide a						
I am requesting that the Corps evaluate and approve a delineation of WoUs by others) on a property/project area and provide an approved JD (may or include a survey plat).	*					

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<sup>&</sup>lt;sup>4</sup> For NCDOT requests following the current NCDOT/USACE protocols, skip to Part E. <sup>5</sup> Waters of the United States

F.	ALL 1	REQUESTS						
<b>√</b>	_	f Property or Project Area (attached). This Map must clearly depict the boundaries area of evaluation.						
<b>√</b>	Size o	f Property or Project Area 11.24 acres						
<b>√</b>		verify that the property (or project) boundaries have recently been surveyed and marked a licensed land surveyor <u>OR</u> are otherwise clearly marked or distinguishable.						
G.	JD RI	EQUESTS FROM CONSULTANTS OR AGENCIES						
(1)	Prelim	inary JD Requests:						
	$\checkmark$	Completed and signed <u>Preliminary Jurisdictional Determination Form<sup>6</sup>.</u>						
	$\checkmark$	Project Coordinates: 35.822437 Latitude -77.633820 Longitude						
	Maps	(no larger than 11x17) with Project Boundary Overlay:						
	$\checkmark$	Large and small scale maps that depict, at minimum: streets, intersections, towns						
	$\checkmark$	Aerial Photography of the project area						
	$\checkmark$	USGS Topographic Map						
	<b>✓</b>	Soil Survey Map						
		Other Maps, as appropriate (e.g. National Wetland Inventory Map, Proposed Site Plan, previous delineation maps, LIDAR maps, FEMA floodplain maps)						

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<sup>&</sup>lt;sup>6</sup> See Appendix A of this Form. From Regulatory Guidance Letter No. 08-02, dated June 26, 2008

Deline	eation Information (when applicable) <sup>7</sup> :		
Wetla ✓	nds: Wetland Data Sheets <sup>8</sup>	Tribut	caries: USACE Assessment Forms
$\checkmark$	Upland Data Sheets	$\checkmark$	Other Assessment Forms (when appropriate)
	Landscape Photos, if taken		
$\checkmark$	Field Sketch overlain on legible Map that in	ncludes	
	<ul> <li>All aquatic resources (for sites with</li> <li>Locations of wetland data points and</li> <li>Locations of photo stations</li> <li>Approximate acreage/linear footage</li> </ul>	d/or trib	outary assessment reaches
(2) Appro	oved JDs including Verification of a Delineat	ion:	
	Project Coordinates: Latitu	de	Longitude
Maps	(no larger than 11x17) with Project Boundary	y Overla	ay:
	Large and small scale maps that depict, at n	ninimur	m: streets, intersections, towns
	Aerial Photography of the project area		
	USGS Topographic Map		
	Soil Survey Map		
	Other Maps, as appropriate (e.g. National V previous delineation maps)	Vetland	Inventory Map, Proposed Site Plan,

 $\underline{\text{http://www.usace.army.mil/Missions/CivilWorks/RegulatoryProgramandPermits/reg\_supp.aspx}}$ 

Wetland and Stream Assessment Methodologies can be found at:

http://portal.ncdenr.org/c/document library/get file?uuid=76f3c58b-dab8-4960-ba43-45b7faf06f4c&groupId=38364 and, http://www.saw.usace.army.mil/Portals/59/docs/regulatory/publicnotices/2013/NCSAM Draft User Manual 130318.pdf

 $<sup>^{\</sup>rm 7}$  1987 Manual Regional Supplements and Data forms can be found at:

<sup>&</sup>lt;sup>8</sup> Delineation information must include, at minimum, one wetland data sheet for each wetland/community type.

Deline	eation Information (when applicable):						
Wetla	nds: Wetland Data Sheets <sup>9</sup>	Tribut	aries: USACE Assessment Forms				
	Upland Data Sheets		Other Assessment Forms (when appropriate)				
	Landscape Photos, if taken						
	Field Sketch overlain on legible Map that includes:						
	<ul> <li>All aquatic resources (for sites with multiple resources, label and identify</li> <li>Locations of wetland data points and/or tributary assessment reaches</li> <li>Locations of photo stations</li> <li>Approximate acreage/linear footage of aquatic resources</li> </ul>						
Suppo	orting Jurisdictional Information (for Approve	ed JDs o	only)				
	Approved Jurisdictional Determination For Form(s)")	rm(s) (al	so known as "Rapanos				
	Map(s) depicting the potential (or lack of potential) hydrologic connection(s), adjacency, etc. to navigable waters.						

<sup>&</sup>lt;sup>9</sup> Delineation information must include, at minimum, one wetland data sheet for each wetland/community type.

## I. REQUESTS FOR CORPS APPROVAL OF SURVEY PLAT

Prior to final production of a Plat, the Wilmington District recommends that the Land Surveyor electronically submit a draft of a Survey Plat to the Corps project manager for review.

Due to storage limitations of our administrative records, the Corps requires that all hard-copy submittals include at least one original Plat (to scale) that is no larger than 11"x17" (the use of match lines for larger tracts acceptable). Additional copies of a plat, including those larger than 11"x17", may also be submitted for Corps signature as needed. The Corps also accepts electronic submittals of plats, such as those transmitted as a Portable Document Format (PDF) file. Upon verification, the Corps can electronically sign these plats and return them via e-mail to the requestor.

(1) P	LATS SUBMITTED FOR APPROVAL
	Must be sealed and signed by a licensed professional land surveyor
	Must be to scale (all maps must include both a graphic scale and a verbal scale)
	Must be legible
	Must include a North Arrow, Scale(s), Title, Property Information
	Must include a legible WoUS Delineation Table of distances and bearings/metes and bounds/GPS coordinates of all surveyed delineation points
	Must clearly depict surveyed property or project boundaries
	Must clearly identify the known surveyed point(s) used as reference (e.g. property corner, USGS monument)
	When wetlands are depicted:

Version: December 2013 Page 8

Must include acreage (or square footage) of wetland polygons Must identify each wetland polygon using an alphanumeric system

When tributaries are depicted:
<ul> <li>Must include either a surveyed, approximate centerline of tributary with approximate width of tributary OR surveyed Ordinary High Water Marks (OHWM) of tributary</li> <li>Must identify each tributary using an alphanumeric system</li> <li>Must include linear footage of tributaries and calculated area (using approximate widths or surveyed OHWM)</li> <li>Must include name of tributary (based on the most recent USGS topographic map) or, when no USGS name exists, identify as "unnamed tributary"</li> </ul>
all depicted WoUS (wetland polygons and tributary lines) must intersect or tie-to surveyed project/property boundaries
Must include the location of wetland data points and/or tributary assessment reaches
Must include, label accordingly, and depict acreage of all waters not currently subject to the requirements of the CWA (e.g. "isolated wetlands", "non-jurisdictional waters"). NOTE: An approved JD must be conducted in order to make an official Corps determination that a particular waterbody or wetland is not jurisdictional.
Must include and survey all existing conveyances (pipes, culverts, etc.) that transport WoUS

(2) CERTIFICATION LANGUAGE					
When the entire actual Jurisdictional Boundary is depicted:					
include the following Corps Certification language:					
"This certifies that this copy of this plat accurately depicts the boundary of the jurisdiction of Section 404 of the Clean Water Act as determined by the undersigned on this date.  Unless there is a change in the law or our published regulations, the determination of Section 404 jurisdiction may be relied upon for a period not to exceed five (5) years from this date. The undersigned completed this determination utilizing the appropriate Regional Supplement to the 1987 U.S. Army Corps of Engineers Wetlands Delineation Manual."					
Regulatory Official:					
Title:					
Date:					
USACE Action ID No.:					
When uplands may be present within a depicted Jurisdictional Boundary: include the following Corps Certification language:					
"This certifies that this copy of this plat identifies all areas of waters of the United States regulated pursuant to Section 404 of the Clean Water Act as determined by the undersigned on this date. Unless there is change in the law or our published regulations, this determination of Section 404 jurisdiction may be relied upon for a period not to exceed five years from this date. The undersigned completed this determination utilizing the appropriate Regional Supplement to the 1987 U.S. Army Corps of Engineers Wetlands Delineation Manual."					
Regulatory Official:					
Title:					
Date:					
USACE Action ID No.:					

(3) <b>G</b>	SPS SURVEYS
	urveys prepared using a Global Positioning System (GPS), the Survey must include the above, as well as:
	be at sub-meter accuracy at each survey point.
	include an accuracy verification: One or more known points (property corner, monument) shall be located with the GPS and cross-referenced with the existing traditional property survey (metes and bounds).
	include a brief description of the GPS equipment utilized.

# ATTACHMENT A PRELIMINARY JURISDICTIONAL DETERMINATION FORM

## **BACKGROUND INFORMATION**

D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION:  (USE THE ATTACHED TABLE TO DOCUMENT MULTIPLE WATERBODIES AT DIFFER	NAL
D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION:  (USE THE ATTACHED TABLE TO DOCUMENT MULTIPLE WATERBODIES AT DIFFER SITES)  State: NC County/parish/borough: Edgecombe City: Pinetops  Center coordinates of site (lat/long in degree decimal format): Lat. 35.822437 °N; Long. 77.633820 °W.  Universal Transverse Mercator: 18	Y JD:
(USE THE ATTACHED TABLE TO DOCUMENT MULTIPLE WATERBODIES AT DIFFER SITES)  State: NC County/parish/borough: Edgecombe City: Pinetops  Center coordinates of site (lat/long in degree decimal format): Lat. 35.822437 °N; Long. 77.633820 °W.  Universal Transverse Mercator: 18	
State: NC County/parish/borough: Edgecombe City: Pinetops  Center coordinates of site (lat/long in degree decimal format): Lat. 35.822437 °N; Long. 77.633820 °W.  Universal Transverse Mercator: 18	
Center coordinates of site (lat/long in degree decimal format):  Lat. 35.822437 °N; Long. 77.633820 °W.  Universal Transverse Mercator: 18	RENT
Lat. 35.822437 °N; Long. 77.633820 °W.  Universal Transverse Mercator: 18	
Name of nearest waterbody: Town Creek	
Identify (estimate) amount of waters in the review area:  Non-wetland waters:  330 linear feet: 90 width (ft) and/or N/A	acres
Cowardin Class: Riverine	
Stream Flow: Perennial (Town Creek, SB)	
Wetlands: 0.5 acres.	
Cowardin Class: Palustrine	
Name of any water bodies on the site that have been identified as Section waters:  Tidal: N/A  Non-Tidal: N/A	on 10

E.	REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):
	Office (Desk) Determination. Date:
	Field Determination. Date(s):
(chec where	CORTING DATA. Data reviewed for preliminary JD k all that apply - checked items should be included in case file and, e checked and requested, appropriately reference sources below):  Maps, plans, plots or plat submitted by or on behalf of the plicant/consultant: NCDOT
ap	Data sheets prepared/submitted by or on behalf of the plicant/consultant.  Office concurs with data sheets/delineation report.  Office does not concur with data sheets/delineation report.  Data sheets prepared by the Corps:
	Corps navigable waters' study:
	U.S. Geological Survey Hydrologic Atlas:
	USGS NHD data
	USGS 8 and 12 digit HUC maps
$\checkmark$	U.S. Geological Survey map(s). Cite scale & quad name: 1:24,000 - Pinetops
$\checkmark$	USDA Natural Resources Conservation Service Soil Survey. Citation: Edgecombe County Area, 1979
	National wetlands inventory map(s). Cite name:
	State/Local wetland inventory map(s):
	FEMA/FIRM maps:
	100-year Floodplain Elevation is:(National Geodectic Vertical Datum of 1929)
	Photographs: Aerial (Name & Date): NC Statewide Orthoimagery Project (2015) or Other (Name & Date): Previous determination(s). File no. and date of response letter:  Other information (please specify):
1 1	Outer intomation (picase specify)

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

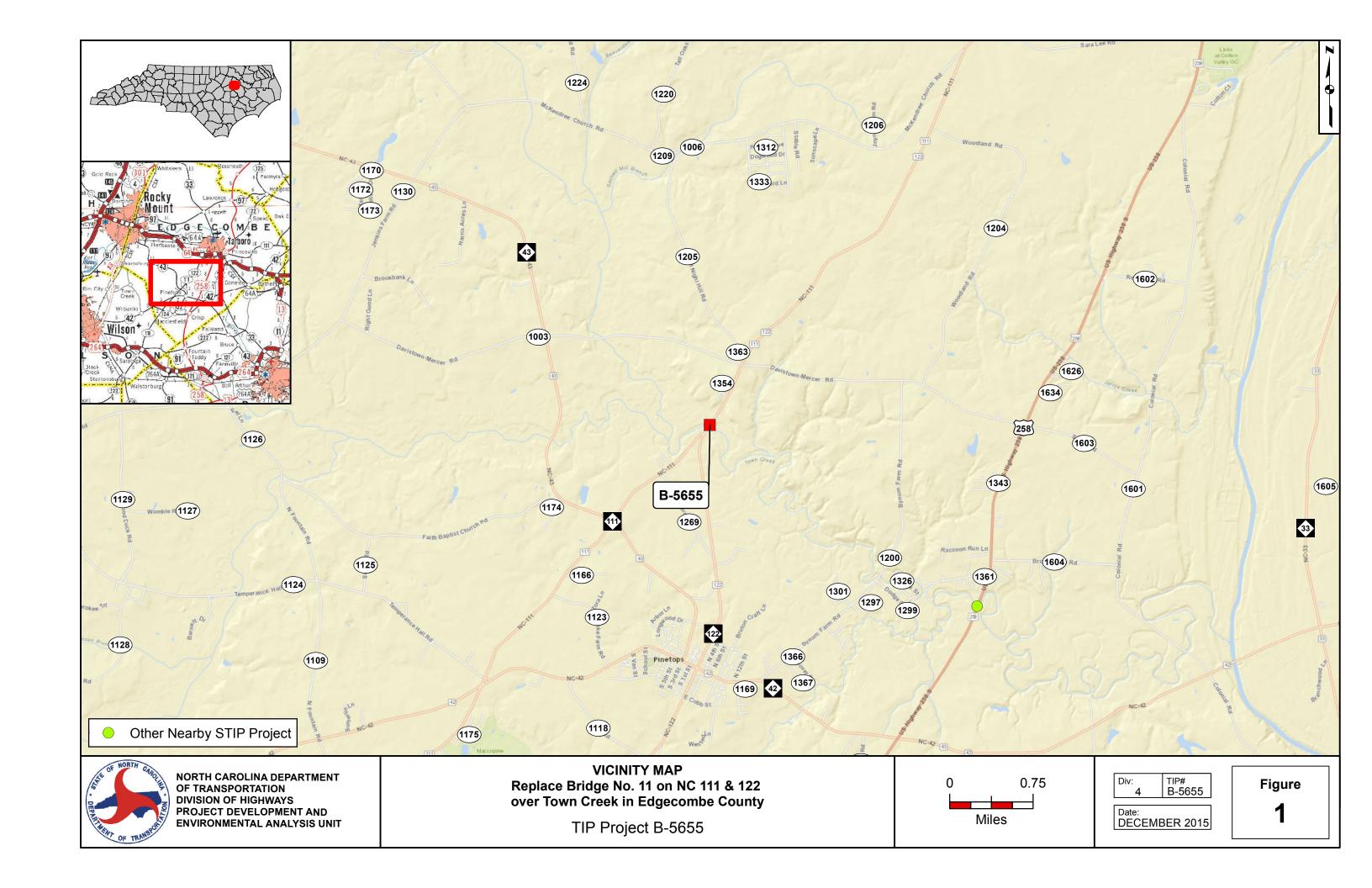
This preliminary JD finds that there "may be" waters of the United States on the subject project site, and identifies all aquatic features on the site that could be affected by the proposed activity, based on the following information:

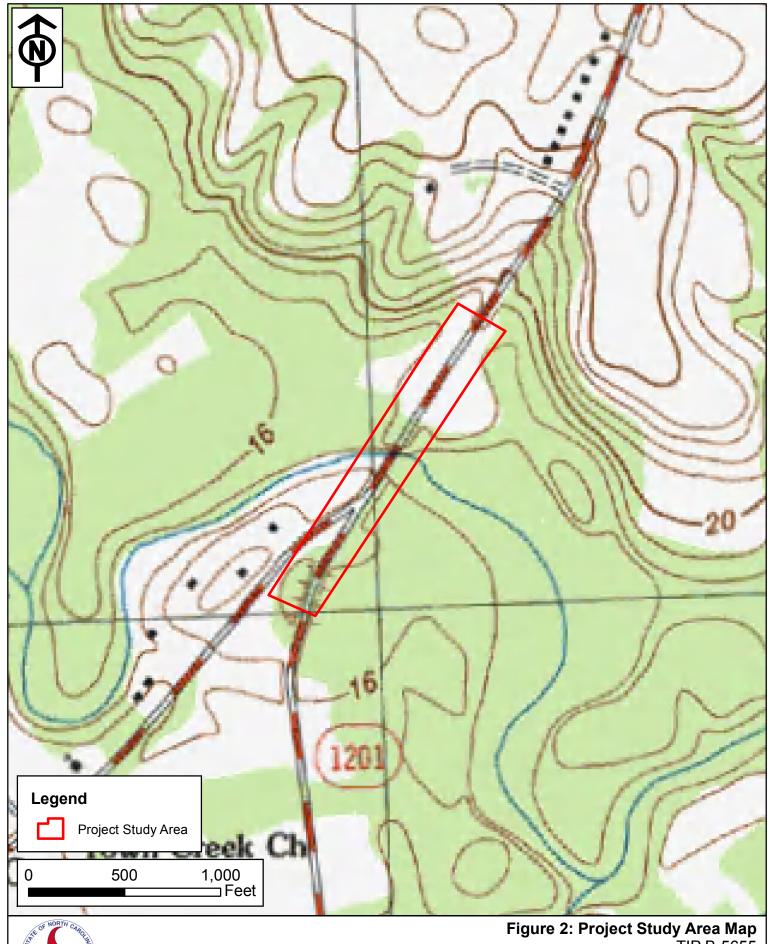
IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations.

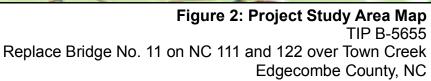
Signature and date of Regulatory Project Manager (REQUIRED)

Signature and date of person requesting preliminary JD (REQUIRED, unless obtaining the signature is impracticable)

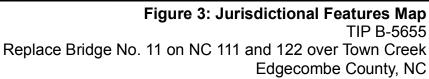
Site number	Latitude	Longitude	Cowardin Class	Estimated amount of aquatic resource in review area	Class of aquatic resource
Town	35.822467	-77.633723	Riverine	330 linear	Non-section
Creek				feet	10 – non-tidal
WA	35.822207	-77.633551	Palustrine	0.3 acre	Non-section
					10 – wetland
WB	35.820577	-77.634923	Palustrine	0.2 acre	Non-section
					10 – wetland











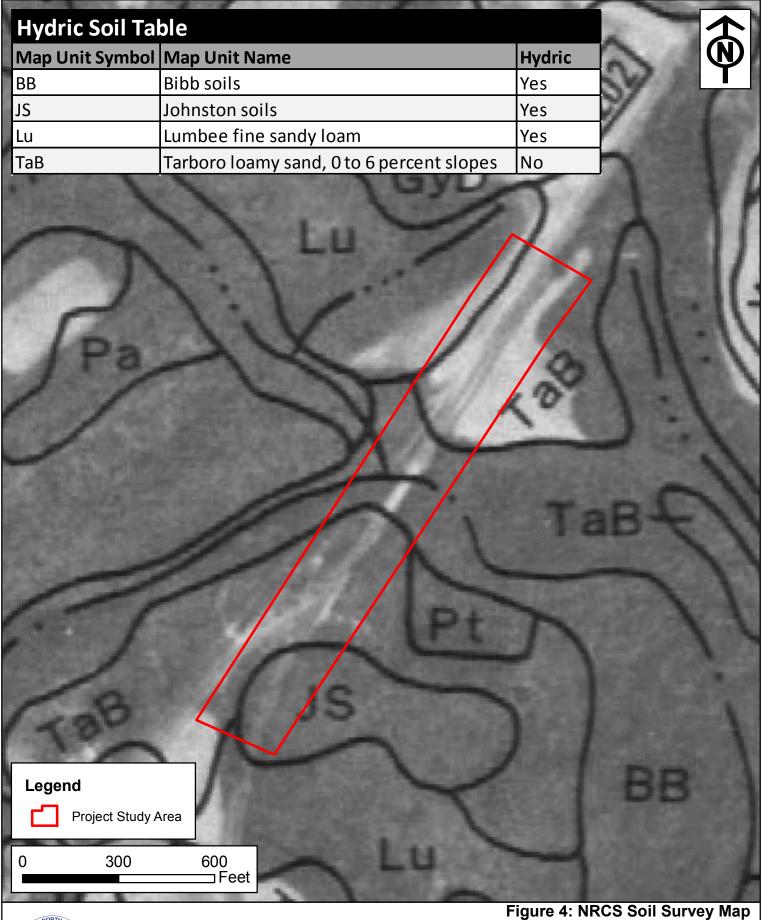




Figure 4: NRCS Soil Survey Map Edgecombe County, 1979

TIP B-5655

Replace Bridge No. 11 on NC 111 and 122 over Town Creek Edgecombe, NC

## North Carolina Division of Water Quality - Stream Identification Form, Version 4.11

Date:	6/8/2016	Project/Site:	Town Creek TIP #B-5655	Latitude:	35.822419	Town Creek B-5655
Evaluator:	R. Sullivan (Kimley-Horn) W. Sullivan (Kimley-Horn)	County:	Edgecombe	Longitude:	-77.633795	
Total Poir Stream is at le	ast intermittent	Stream Deter	mination (circle one) itermittent Perennial		Pinetopes Quad	

A. Geomorphology Subtotal = 19	Absent	Weak	Moderate	Strong	Score
1 <sup>a</sup> . Continuity of channel bed and bank	0	1	2	3	3
Sinuosity of channel along thalweg	0	1	2	3	3
3. In-channel structure: ex. riffle-pool, step-pool, ripple-pool sequence	0	1	2	3	1
Particle size of stream substrate	0	1	2	3	1
5. Active/relic floodplain	0	1	2	3	3
Depositional bars or benches	0	1	2	3	2
7. Recent alluvial deposits	0	1	2	3	2
8. Headcuts	0	1	2	3	0
9. Grade control	0	0.5	1	1.5	0
10. Natural valley	0	0.5	1	1.5	1
11. Second or greater order channel	No =	0	Yes	= 3	3

artificial ditches are not rated; see discussions in manual

B. Hydrology Subtotal =	8.5
-------------------------	-----

12. Presence of Baseflow	0	1	2	3	3
13. Iron oxidizing bacteria	0	1	2	3	0
14. Leaf litter	1.5	1	0.5	0	1
15. Sediment on plants or debris	0	0.5	1	1.5	0.5
16. Organic debris lines or piles	0	0.5	1	1.5	1
17. Soil-based evidence of high water table?	No = 0 Yes = 3		3		

## C. Biology Subtotal = 10.25

18. Fibrous roots in streambed	3	2	1	0	2		
19. Rooted upland plants in streambed	3	2	1	0	2		
20. Macrobenthos (note diversity and abundance)	0	1	2	3	0		
21. Aquatic Mollusks	0	1	2	3	1		
22. Fish	0	0.5	1	1.5	1.5		
23. Crayfish	0	0.5	1	1.5	1.5		
24. Amphibians	0	0.5	1	1.5	1.5		
25. Algae	0	0.5	1	1.5	0		
26. Wetland plants in streambed FACW = 0.75; OBL = 1.5; Other = 0							
*perennial streams may also be identified using other methods. See p. 35 of	manual.			-			

### Notes:

Town Creek is a coastal plain perennial stream within the study corridor. The bankful width is roughly 90' with a height of 6'. The water is slightly turbid and 2-5' deep. Town Creek has a moderate flow and a sand and silt substrate within the study area. No aquatic biology was observed, but the stream is large enough to support fish, crayfish, turtles, and other aquatic organisms.

## WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: TIP# B-5655	City/County: Lenoi	r	Sampling Date: <u>6/8/2016</u>				
Applicant/Owner: NCDOT	- 0000 1 0 € \$0000000 ± 000000000000000000000000	State: NC	Sampling Point: WA/WB-UP				
Investigator(s): R. Sullivan & W. Sullivan (K	imley-Horn) Section, Township,						
Landform (hillslope, terrace, etc.): Levee		e, convex, none): Convex	Slope (%): 3%				
Subregion (LRR or MLRA): LRR P		Long: -77.633525	Datum: NAD83				
Soil Map Unit Name: BB - Bibb soils			ation: None				
Are climatic / hydrologic conditions on the site typic	al for this time of year? Yes						
15 19560 W WAS 1991 10. 1991 10.	Ser contract the opening to seem and						
Are Vegetation Soil or Hydrology	AC SEC MANA PROJECT MAN	re "Normal Circumstances" p	PA (DG) 49 EV				
Are Vegetation Soil or Hydrology	naturally problematic? (If	needed, explain any answe	rs in Remarks.)				
SUMMARY OF FINDINGS - Attach site	map showing sampling poin	t locations, transects	, important features, etc.				
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks:	No No No Within a Wet	tel totali	No ✓				
	on a graph layer FOI from		naint and 2 Fl				
Data point WA/WB-UP was taker	on a creek levee 50. tron	n the wetland data	point and 2.5°				
higher in elevation.							
HYDROLOGY							
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)				
Primary Indicators (minimum of one is required; cl	neck all that apply)	Surface Soil	Cracks (B6)				
Surface Water (A1)	Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)					
High Water Table (A2)		Patterns (B10)					
Saturation (A3)	DE SECURITION OF	ss Trim Lines (B16)					
	Oxidized Rhizospheres along Living Ro						
	Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C		Crayfish Burrows (C8)				
Algal Mat or Crust (B4)	Thin Muck Surface (C7)		Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)				
	Other (Explain in Remarks)	Shallow Aquitard (D3)					
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral Test (D5)					
Water-Stained Leaves (B9)		Sphagnum n	noss (D8) (LRR T, U)				
Field Observations:	71						
Surface Water Present? Yes No No							
Water Table Present? Yes No	Depth (inches): >24"						
Saturation Present? Yes No (includes capillary fringe)	✓ Depth (inches): _>24"	Wetland Hydrology Presen	t? Yes No V				
Describe Recorded Data (stream gauge, monitoring	ng well, aerial photos, previous inspection	ons), if available:					
Remarks:							
No hydrology indicators were obs	served at WA/WB-UP.						
, ,	•						

201		Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: 30')		Species?		Number of Dominant Species 12
1. Ulmus americana	30%	<u>Y</u>	<u>FAC</u>	That Are OBL, FACW, or FAC: (A)
2. Carpinus caroliniana	30%	Y	<u>FAC</u>	Total Number of Dominant
3. Acer rubrum	15%_	Y	<u>FAC</u>	Species Across All Strata: 13 (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC:  (A/B)
6				
7				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
8	75%	 = Total Cov		OBL species x 1 =
500/ 5/ / 27 5/				FACW species x 2 =
50% of total cover: <u>37.5</u>	<u>70</u> 20% of	total cover:	15%	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 30')	<b>E</b> 0/	\ <u>/</u>		FACU species x 4 =
1. Viburnum rufidulum		<u>Y</u>	<u>UPL</u>	UPL species x 5 =
2. Ilex decidua	<u>5%</u>	<u>Y</u>	<u>FACW</u>	
3. Ligustrum sinense	5%	<u> </u>	<u>FAC</u>	Column Totals: (A) (B)
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7.				
8				X 2 - Dominance Test is >50%
·	15%	= Total Cov		3 - Prevalence Index is ≤3.0 <sup>1</sup>
500/ - 51-1-1 7 50				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover: <u>7.59</u>	<u>70</u> 20% of	total cover:	3%	
Herb Stratum (Plot size: 30' )	1 = 0/	V	<b>EAC</b>	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1. Microstegium vimineum	15%	<u>Y</u>	<u>FAC</u>	be present, unless disturbed or problematic.
2. <u>Murdannia keisak</u>	15%	<u>Y</u>	OBL	Definitions of Four Vegetation Strata:
3. Polygonum sp.	10%	Υ	<u>FAC</u>	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6.				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8.				
				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9				or size, and woody plants less than 5.20 it tail.
10				Woody vine - All woody vines greater than 3.28 ft in
11				height.
12	400/			
		= Total Cov		
50% of total cover: <u>20%</u>	<u>6</u> 20% of	total cover:	_8%_	
Woody Vine Stratum (Plot size: 30' )				
1. Bignonia capreolata	5%	Y	FAC_	
2. Smilax rotundifolia	5%_	Y	_FAC_	
3. Vitis rotundifolia	5%	Υ	FAC	
4 Toxicodendron radicans	5%	Y	FAC	
5.				
<u> </u>	200/-	= Total Cov		Hydrophytic Vegetation
5004 54 44 1004				Present? Yes No No
50% of total cover: 10%	<del></del> '	total cover:	470	
Remarks: (If observed, list morphological adaptations belo	w).			

Sampling Point: WA/WB-UP

Sampling Point: WA/WB-UP

	cription: (Describe	e to the dept				or confirm	n the absence	of indicators.)
Depth (inches)	Matrix Color (moist)		Redo Color (moist)	x Feature %		Loc <sup>2</sup>	Texture	Remarks
0-6"	7.5YR 4/3	100%					Sand	
6-24"	10YR 4/4	100%					Sandy loam	<u></u> 1
						-		
	-							
1Type: C=C	encontration D=Da	nlotion DM-	Poduced Metrix, M	S-Maakaa			2l contion:	DI - Doro Lining M-Metrix
	oncentration, D=De Indicators: (Appli					allis.		PL=Pore Lining, M=Matrix.  for Problematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Be			.RR S, T, I	_	fluck (A9) (LRR O)
Histic Ep	oipedon (A2)		Thin Dark Su				2 cm N	luck (A10) (LRR S)
	istic (A3)		Loamy Muck	-		t O)		ed Vertic (F18) (outside MLRA 150A,B)
<del>_</del>	en Sulfide (A4) d Layers (A5)		Loamy Gleye Depleted Ma	,	F2)			ont Floodplain Soils (F19) (LRR P, S, T) llous Bright Loamy Soils (F20)
	Bodies (A6) (LRR	P, T, U)	Redox Dark	` '	6)			RA 153B)
	ıcky Mineral (A7) <b>(L</b>		Depleted Da	,	,		`	arent Material (TF2)
	esence (A8) (LRR		Redox Depre	•	8)			hallow Dark Surface (TF12)
	ick (A9) (LRR P, T)		Marl (F10) (L	,	(BAL D. A. 4	F4.)	U Other (	(Explain in Remarks)
	d Below Dark Surfa ark Surface (A12)	ice (A11)	Depleted Oc Iron-Mangan	, ,	•	•	T) <sup>3</sup> Indic	ators of hydrophytic vegetation and
	rairie Redox (A16)	(MLRA 150A						land hydrology must be present,
Sandy N	lucky Mineral (S1)	(LRR O, S)	Delta Ochric	(F17) (ML	RA 151)	, ,	unle	ess disturbed or problematic.
1 1	Sleyed Matrix (S4)		Reduced Ve				•	
	Redox (S5) I Matrix (S6)		Piedmont Flo		, ,	•	,	4520)
	rface (S7) <b>(LRR P,</b>	S. T. U)	Alloillaious E	origini Loai	ily Solis (	F∠O) (IVILE	RA 149A, 153C,	, 193 <i>D)</i>
	Layer (if observed							
Туре:								
Depth (in	ches):						Hydric Soil	Present? Yes No V
Remarks:							•	
No hydri	c soil indicate	ors were	observed at	\Λ/Δ/\Λ	'R-I IP			
ivo ilyun	c son maicae	ors were	obscived at	vv/y vv	D 01.			

## WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: TIP# B-5655	City/County: Edgecombe	Sampling Date: 6/8/2016
Applicant/Owner: NCDOT	Stat	e: NC Sampling Point: WA/WB-WET
Investigator(s): R. Sullivan & W. Sullivan (Kimley-Horn)	Section, Township, Range: Spar	
Landform (hillslope, terrace, etc.): Floodplain wetland	Local relief (concave, convex, non	
Subregion (LRR or MLRA): LRR Lat: 35.8		7 S 15 15 15 15 15 15 15 15 15 15 15 15 15
Soil Map Unit Name: BB - Bibb soils	Long	NWI classification: PFO1/2F
Are climatic / hydrologic conditions on the site typical for this time of	ear? Yes No (If no	o, explain in Remarks.)
55 SHORD 65 6000 PRO 1000 PRO	Office to Miles At Miles Montage	cumstances" present? Yes V
Are Vegetation Soil or Hydrology naturally p	roblematic? (If needed, expla	ain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showin	g sampling point locations	, transects, important features, etc.
Hydrophytic Vegetation Present? Yes ✓ No	Is the Sampled Area	
Hydric Soil Present? Yes V No No	within a Wetland?	Yes V No
Wetland Hydrology Present? Yes No		
Remarks:		
WA/WB is a floodplain wetland along Town		
downstream of study area causing water to	impound upstream into	parts of the study area.
HYDROLOGY		
Wetland Hydrology Indicators:		condary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply	V	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B		Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)  Marl Deposits (B		Drainage Patterns (B10)
Saturation (A3) Hydrogen Sulfide		Moss Trim Lines (B16)
The state of the s	heres along Living Roots (C3)	Dry-Season Water Table (C2)
Sediment Deposits (B2)  Presence of Redu	The state of the s	Crayfish Burrows (C8)
	ction in Tilled Soils (C6)	Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface		Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in	Remarks)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	<u> </u>	FAC-Neutral Test (D5)
✓ Water-Stained Leaves (B9)		Sphagnum moss (D8) (LRR T, U)
Field Observations:  Surface Water Present?  Yes V  No Depth (inche	1-2"	
The state of the s		rology Present? Yes No
Saturation Present? Yes Ves No Depth (inche (includes capillary fringe)	s) wetland nyur	ology Present? Tes V No No
Describe Recorded Data (stream gauge, monitoring well, aerial pho	tos, previous inspections), if availab	le:
Remarks:		
		n of Town Cools and
Hydrology in wetland WA/WB is sourced from	•	g of Town Creek, and
backflow caused by a downstream beaver d	am.	

20'		Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: _30')	% Cover			Number of Dominant Species
1. Quercus lyrata	30%	Y	OBL_	That Are OBL, FACW, or FAC: (A)
2. Taxodium distichum	30%	<u>Y</u>	OBL_	Total Number of Dominant
3. Carpinus caroliniana	20%	<u>Y</u>	<u>FAC</u>	Species Across All Strata: 8 (B)
4. Acer rubrum	20%	Y	<u>FAC</u>	Derecht of Deminent Species
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)
6				
7.				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
	100%	- Total Co		OBL species x 1 =
50% of total cover: <u>50</u> %				FACW species x 2 =
· · · · · · · · · · · · · · · · · · ·	<u>0                                    </u>	total cove	20 70	FAC species x 3 =
Sapling/Shrub Stratum (Plot size: 30' )	Ε0/	V	EAC\\\	FACU species x 4 =
1. Ilex decidua				UPL species x 5 =
2				Column Totals: (A) (B)
3				Column Totals (A) (B)
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				X 2 - Dominance Test is >50%
8.				3 - Prevalence Index is ≤3.0¹
		Total Co	ver	
50% of total cover: <u>2.5</u> %	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
	<u> 20 /0 01</u>	total cove	· <u>1 70</u>	
<u>Herb Stratum</u> (Plot size: <u>30'</u> )  1. <i>Murdannia keisak</i>	70%	Υ	ΩĐI	Indicators of hydric soil and wetland hydrology must
	10%	N	OBL	be present, unless disturbed or problematic.
2. Polygonum sp.	10%		FAC	Definitions of Four Vegetation Strata:
3. Boehmeria cylindrica		N	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Saururus cernuus	10%_	N	OBL	more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8.				Herb – All herbaceous (non-woody) plants, regardless
9.				of size, and woody plants less than 3.28 ft tall.
10				
11.				Woody vine – All woody vines greater than 3.28 ft in
				height.
12	1000/			
F00		= Total Co		
50% of total cover: <u>50%</u>	<u>6</u> 20% of	total cove	·· <u>20%</u>	
Woody Vine Stratum (Plot size: 30')	100/	.,		
1. Smilax rotundifolia	_10%_	<u>Y</u>	<u>FAC</u>	
2. Toxicodendron radicans	5%	<u>Y</u>	<u>FAC</u>	
3				
4				
5.				Hydrophytic
	15% :	= Total Co	ver	Vegetation
50% of total cover: <u>7.5</u> %				Present? Yes V No
		total cove		
Remarks: (If observed, list morphological adaptations belo	W).			
Many of the trees observed have buttre	esses			

Sampling Point: WA/WB-WET

SOIL Sampling Point: WA/WB-WET

Profile Description: (Describe to the depth needed to document the indicator or confined between the indicat								
(inches) 0-4"	Color (moist)	<u>%</u>	Color (moist)	20/	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks
	10YR 4/3	98%	10YR 4/5	2%	. <u>C</u>	<u>M</u>	Loam	
4-24"	10YR 6/2	_ 90%_	10YR 5/5	10%	<u> </u>	<u>M</u>	Clay	**Concentrations
								increase with depth
Hydric Soil  Histosol  Histic Ep  Black Hi  Hydroge  Stratified  Organic  5 cm Mu  Muck Pr  1 cm Mu  Deplete  Thick Da  Coast P  Sandy M  Sandy M  Stripped  Dark Su  Restrictive  Type:  Depth (in  Remarks:	Indicators: (Appl (A1) pipedon (A2) istic (A3) en Sulfide (A4) d Layers (A5) Bodies (A6) (LRR ucky Mineral (A7) (Iresence (A8) (LRR P, T d Below Dark Surfa ark Surface (A12) rairie Redox (A16) Mucky Mineral (S1) Bleyed Matrix (S4) Redox (S5) d Matrix (S6) Irface (S7) (LRR P, Layer (if observed	P, T, U) LRR P, T, U U) (MLRA 150 (LRR O, S) S, T, U)	Redox Depre	rwise not rwise not rlow Surfa urface (S9 y Mineral ed Matrix (F3) Surface (F rk Surface essions (F .RR U) hric (F11) ese Mass ace (F13) (F17) (ML tic (F18) ( bodplain S Bright Loar	ed.) ce (S8) (I ) (LRR S, (F1) (LRI (F2)  6 (F7)  8) (MLRA 1 es (F12) (LRR P, 1 LRA 151) (MLRA 15 Goils (F19) my Soils	51) (LRR O, F T, U) (LRR O, F T, U) (MLRA 1 F20) (ML	Indicators  U)	PL=Pore Lining, M=Matrix.  for Problematic Hydric Soils³:  //uck (A9) (LRR O)  //uck (A10) (LRR S)  ed Vertic (F18) (outside MLRA 150A,B)  ont Floodplain Soils (F19) (LRR P, S, T)  alous Bright Loamy Soils (F20)  RA 153B)  arent Material (TF2)  challow Dark Surface (TF12)  (Explain in Remarks)  cators of hydrophytic vegetation and cland hydrology must be present, ess disturbed or problematic.  , 153D)  Present? Yes  No  No  No  No  No  No  No  No  No  N



## **North Carolina Department of Transportation**

# Highway Stormwater Program STORMWATER MANAGEMENT PLAN



Marcian 2.07: Balancad O	atabar 2046)			STOR		AGEMENT PLAN						OF IRANS	
WBS Element:         45610.1.1         TIP No.:         B-5655				FOR NCDOT PROJECTS  County(ies): Edgecombe							of	2	
WBO Liement.	111 110	B 0000	C	• • •					Page 1	<del>U.</del>			
MDC Flowers		45040.4.4			eneral Project I	mormation	Duningt	T	Deidas Daulassassat	Deter	40/0/	2040	
WBS Element:		45610.1.1		TIP Number:	B-5655	Camtractor / Danie	Project		Bridge Replacement	Date:	10/8/2	2019	
NCDOT Contact:	Address:	Tierre Peterson	D.,			Contractor / Design	<b>-</b>	Leah Young	<u> </u>				
		1000 Birch Ridge	Dr						of Neuse Road				
		Raleigh, NC						Suite 400	2				
		27610						Raleigh, NO					
-		(919) 707-6488						(919) 783-9					
	Email:	trpeterson@ncdo						<u>Leah.Youn</u>	<u>g@kci.com</u>				
City/Town:				ne		County(ies):	Edgeco						
River Basin(s):		Tar-Pa	amlico			CAMA County?	No	)					
Wetlands within Proje	ect Limits?	Yes											
				T	Project Desc								
Project Length (lin. m	iles or feet):	0.2	21	Surrounding L		Woods/rural reside	ential						
		Proposed Project Existing S							Existing Site	Site			
Project Built-Upon Ar	<u> </u>		1.0		ac.			0.9	ac.		_		
Typical Cross Section	n Description:	12' TRAVEL LAN	IES WITH 4' PAV	'ED SHOULDER A	T BRIDGE; 35.2	25' 001 10 001	APPROXIMA	IE 10' IRA	VEL LANES WITH 2' PAV	ED SHOULDE	R		
Annual Avg Daily Tra	, , , , , , , , , , , , , , , , , , , ,	Design/Future		6900	Year:		Existing:	not in OAFI In	5075			2020	
General Project Narra (Description of Minim			•				•		ong with a clear roadway w			•	
Quality Impacts)	iization of water	2-12' travel lanes with a 4' 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 jurisdictional stream or similar impacts. There will be no permanent channel changes. There											
			•		•				cavation under the bridge		_		
				•	•	*			npacts). The wetland exca		•		
									wetlands. There are 30' a				
									two, there is a total of 5,93				
									ER CONTROLS: The pro ional stream at non-erosiv				
				-		ng vegetated swales		•		e velocities. III	all bridge c	juaurants,	
		Todaway Tarion 10	trodiod vid vogot	atod roddway onod	naoro aria oxiotii	ig vogotatod owalot	prior to oritorii	ig the other					
					Waterbody Info	ormation							
Surface Water Body (1): Town			Creek	waterbody iiii	NCDWR Stream In	adox No.	.: 28-83b						
Surface Water Body (	1).			ſ	ation.	Class			20-0	วอม			
NCDWR Surface Wat	er Classification fo	r Water Body		Primary Classific									
				Supplemental Cla	assification:	Nutrient Sensitive	vvaters (NSvv)						
Other Stream Classification: None													
Impairments:	2	No		ANIADDOMONIC	1011								
Aquatic T&E Species	<u> </u>	Yes	Comments:	ANADROMOUS F	15H			D# D .:	an in Effect		T D /'		
NRTR Stream ID:		N/A							es in Effect:		Tar-Pamlio	0	
Project Includes Brid				Deck Drains Disc					Pads Provided in Buffer		Yes if no justif	v in the	
Deck Drains Discharg			No	(ii yes, provide	e justification in t	the General Project	ivarrative)	(if yes, d	lescribe in the General Pro General Proje		ii no, justif	y in the	
(If yes, provide	e justification in the (	eneral Project N	arrative)	ĺ					Jeneral Moje	or mairative)			



### **North Carolina Department of Transportation**

## THE OF HORTH CAROLING

### Highway Stormwater Program STORMWATER MANAGEMENT PLAN

(Version 2.07; Released October 2016)

October 2016) FOR NCDOT PROJECTS

WBS Element: TIP No.: B-5655 County(ies): Edgecombe Page 2 of 2

	Preformed Scour Holes and Energy Dissipators										
			Preforr	ned Scour Holes at		sipators	1				
Sheet No.	Station & Coordinates (Road and Non Road Projects)	Surface Water Body	Energy Dissipator Type	Riprap Type	Drainage Area (ac)	Conveyance Structure	Pipe/Structure Dimensions (in)	Q10 (cfs)	V10 (fps)	BMP Associated w/ Buffer Rules?	
4	STA 15+16.7 LT	(1)Town Creek	Rip Rap Pad at Outlet	Class 'B'	0.1	Pipe	15	0.4	1.3	Yes	
4	STA 15+28.2 RT	(1)Town Creek	Rip Rap Pad at Outlet	Class 'B'	0.1	Pipe	16	0.4	1.3	Yes	
4	STA 18+04.5 LT	(1)Town Creek	Rip Rap Pad at Outlet	Class 'B'	0.0	Pipe	17	0.3	1.2	Yes	
4	STA 18+21.4 RT	(1)Town Creek	Rip Rap Pad at Outlet	Class 'B'	0.1	Pipe	18	0.3	1.2	Yes	

**Additional Comments** 

Buffer Zones present within limits of project. See Buffer Permit Plans.

<sup>\*</sup> Refer to the NCDOT Best Management Practices Toolbox (2014), NCDOT Standards, the Federal Highway Administration (FHWA) Hydraulic Engineering Circular No. 14 (HEC-14), Third Edition, Hydraulic Design of Energy Dissipators for Culverts and Channels (July 2006), as applicable, for design guidance and criteria.

See Sheet 1-A For Index of Sheets See Sheet 1-B For Conventional Symbols - PROJECT VICINITY MAP DETOUR ROUTE

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

PERMIT DRAWING SHEET 1 OF 13

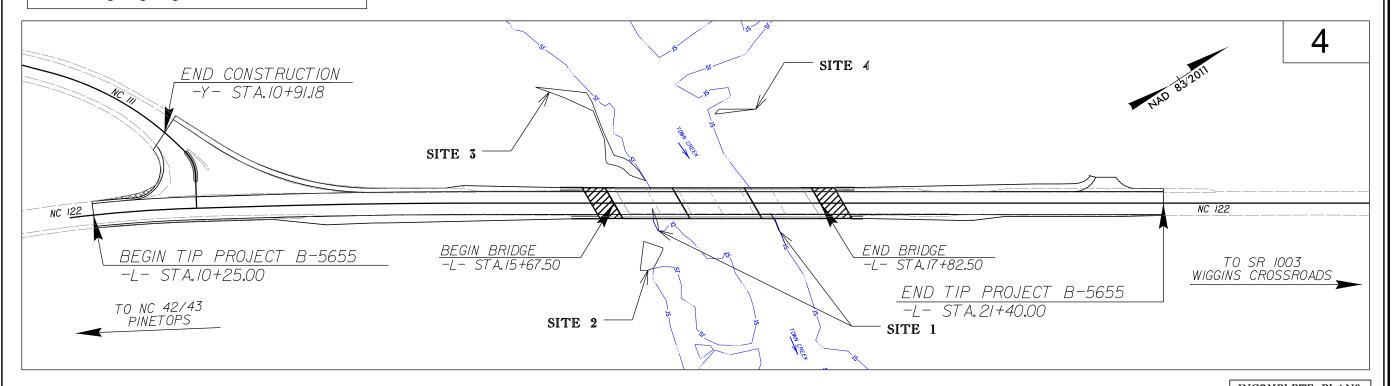
STATE	SIATE	PROJECT REPERENCE NO.	NO.	SHEETS				
N.C.		B-5655	1					
STAT	E PROJ.NO.	F. A. PROJ. NO.	DESCRIPT	DESCRIPTION				
45	610.1.1		P.E.					
45	610.2.1		ROW/L	JTIL.				
45	610.3.1		CONSTR.					
1								

### EDGECOMBE COUNTY

LOCATION: REPLACE BRIDGE NO. 11 OVER TOWN CREEK ON NC 111/NC 122

TYPE OF WORK: GRADING, DRAINAGE, PAVING AND STRUCTURE

# WETLAND AND STREAM IMPACTS



THIS PROJECT IS NOT WITHIN MUNICIPAL BOUNDARIES.
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.

INCOMPLETE PLANS DOCUMENT NOT CONSIDERED FINAL
JNLESS ALL SIGNATURES COMPLETED



**GRAPHIC SCALES** 

**PLANS** 

PROFILE (HORIZONTAL)

PROFILE (VERTICAL)

### **DESIGN DATA**

ADT 2020 = 5075 ADT 2040 = 6900 K = 10 %

**REGIONAL TIER** 

D = 55 %T = 4 %V = 60 MPHTTST = 2% DUAL 2% FUNC CLASS = MAJOR COLLECTOR

#### **PROJECT LENGTH**

LENGTH OF ROADWAY TIP PROJECT B-5655 LENGTH OF STRUCTURE TIP PROJECT B-5655 = .041 MILES TOTAL LENGTH OF TIP PROJECT B-5655

= .211 MILES

RIGHT OF WAY DATE: SEPTEMBER 3, 2019

Prepared in the Office of:

2018 STANDARD SPECIFICATIONS

KCI Associates of N.C., P.A. 4505 Falls of Neuse Road, Suite 40

LETTING DATE: MAY 19, 2020

DAVID STUTTS, P.E. NCDOT CONTACT: STRUCTURES MANAGEMENT UNIT

Plans Prepared For:

**DIVISION OF HIGHWAYS** 1000 Birch Ridge Dr. Raleigh NC, 27610

DEWAYNE L. SYKES, P.E.

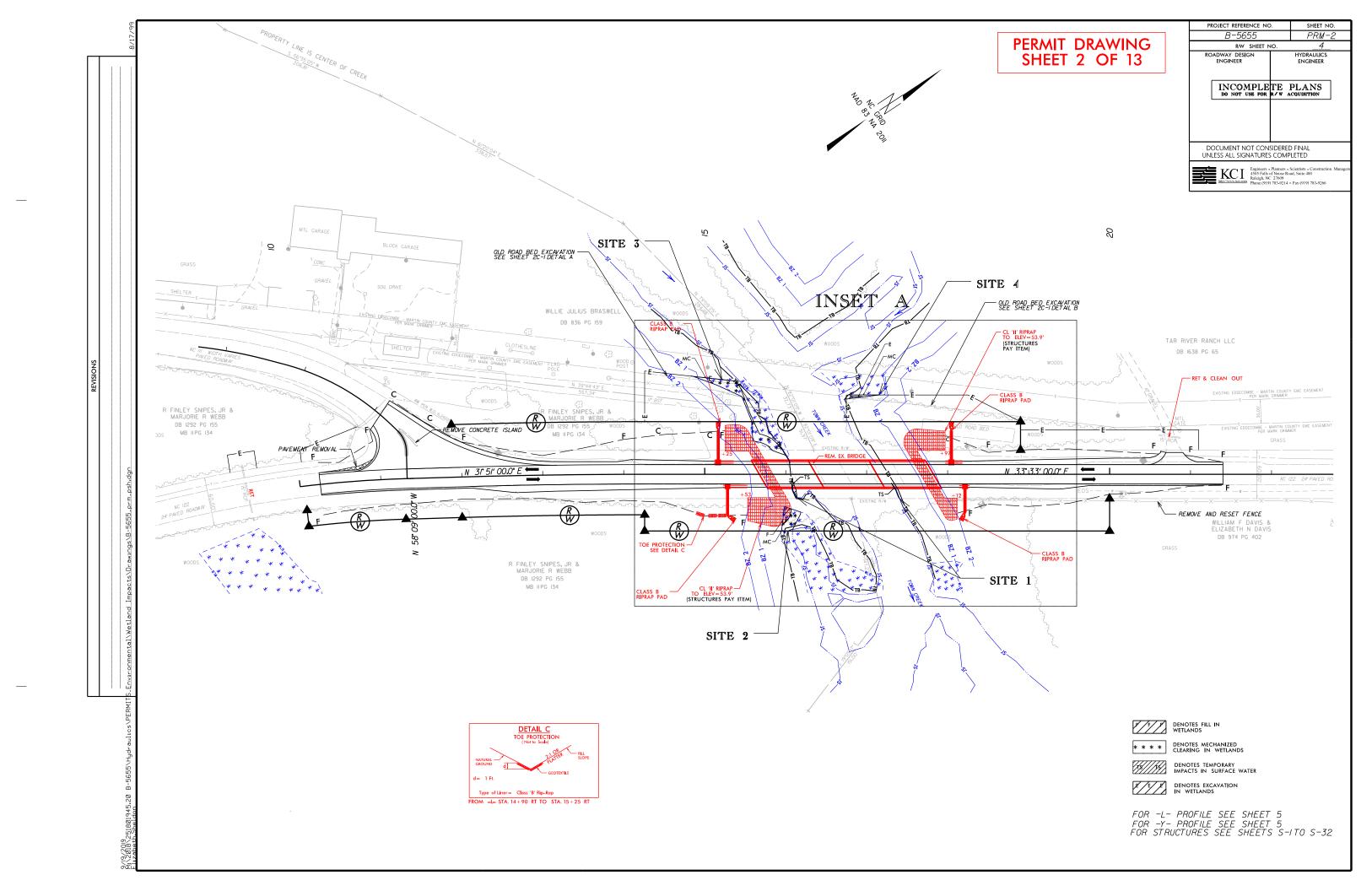
BRYAN E. HOUGH. P.E.

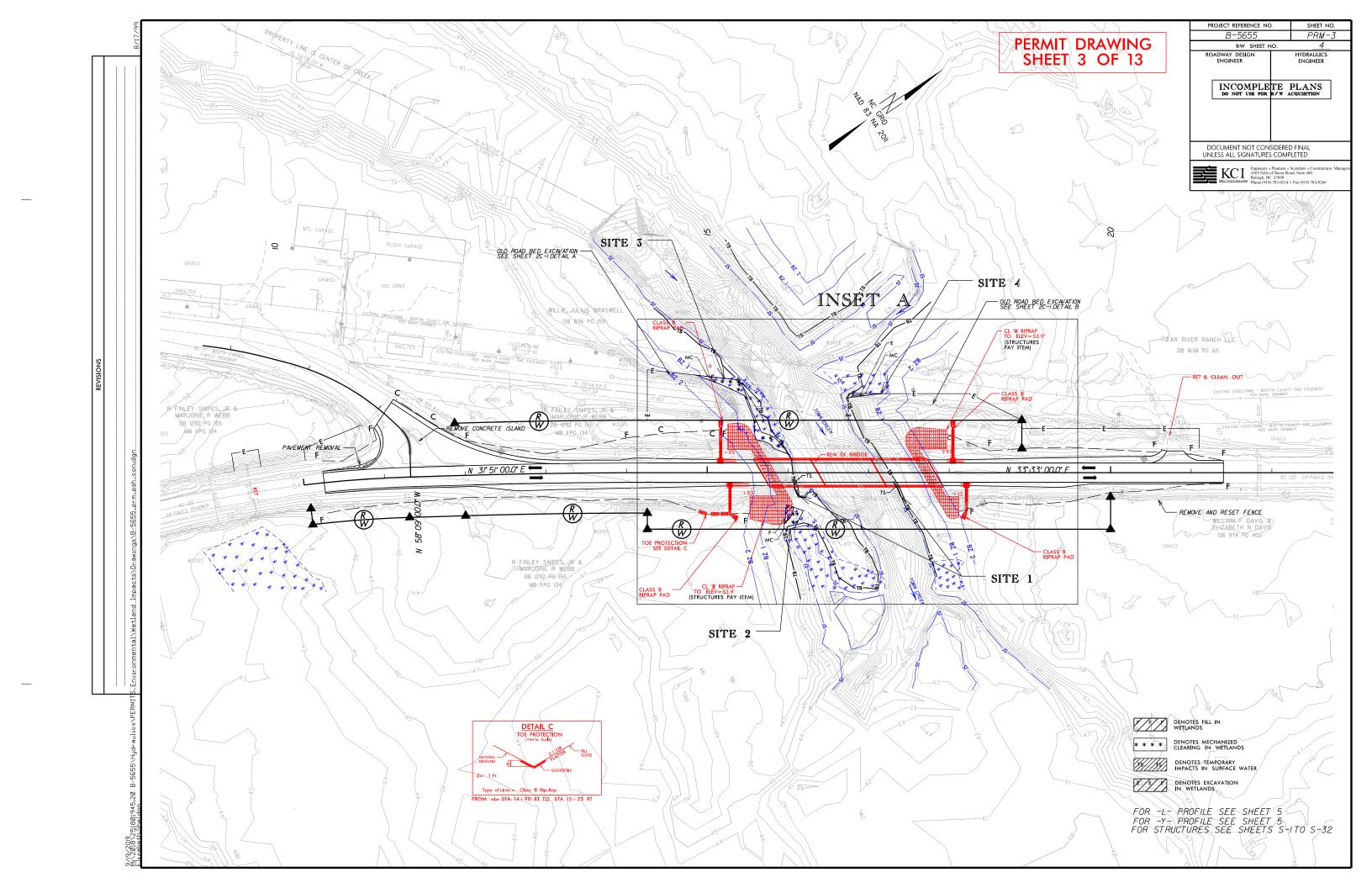
PROJECT DESIGN ENGINEER

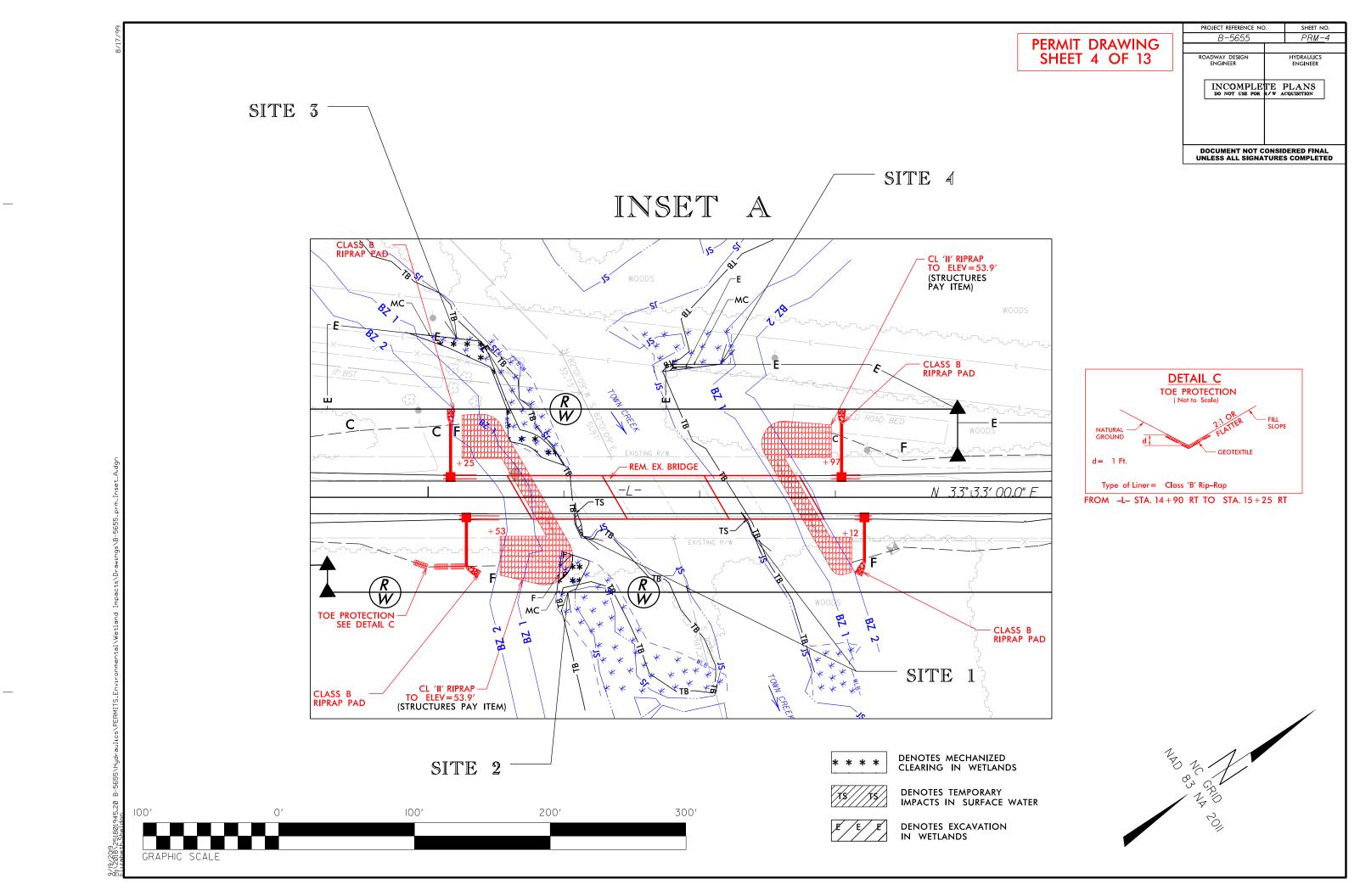
### HYDRAULICS ENGINEER

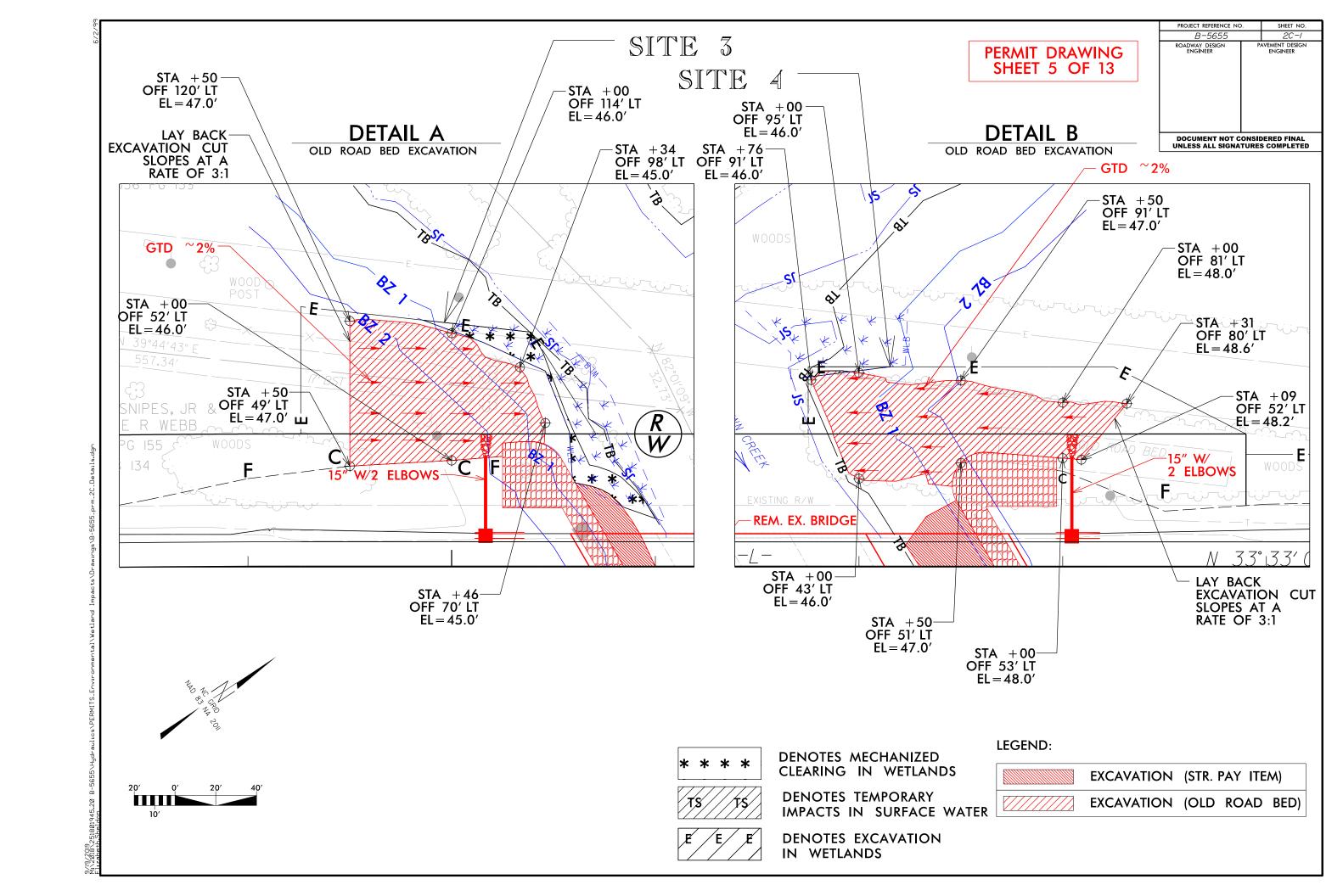
ROADWAY DESIGN ENGINEER

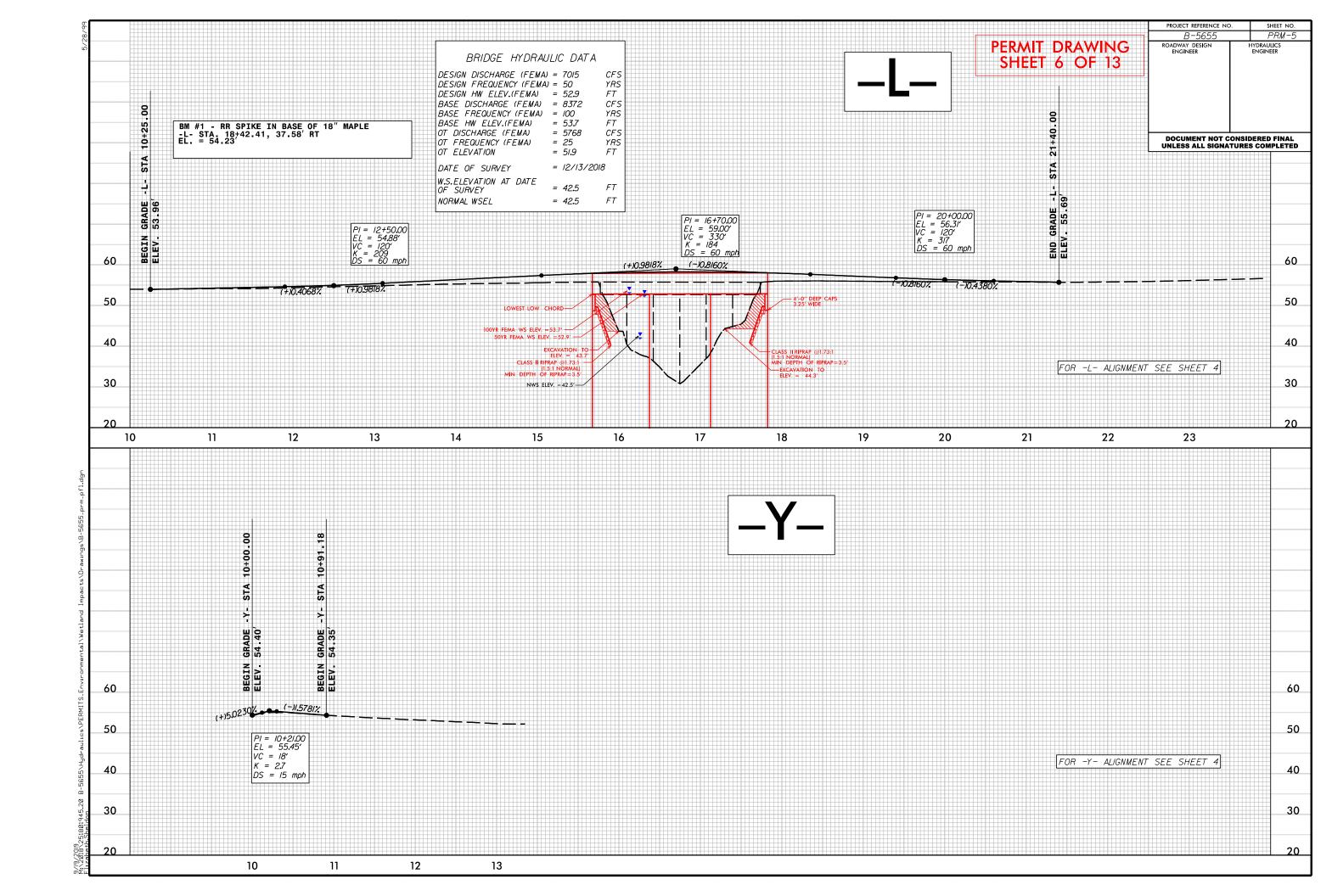


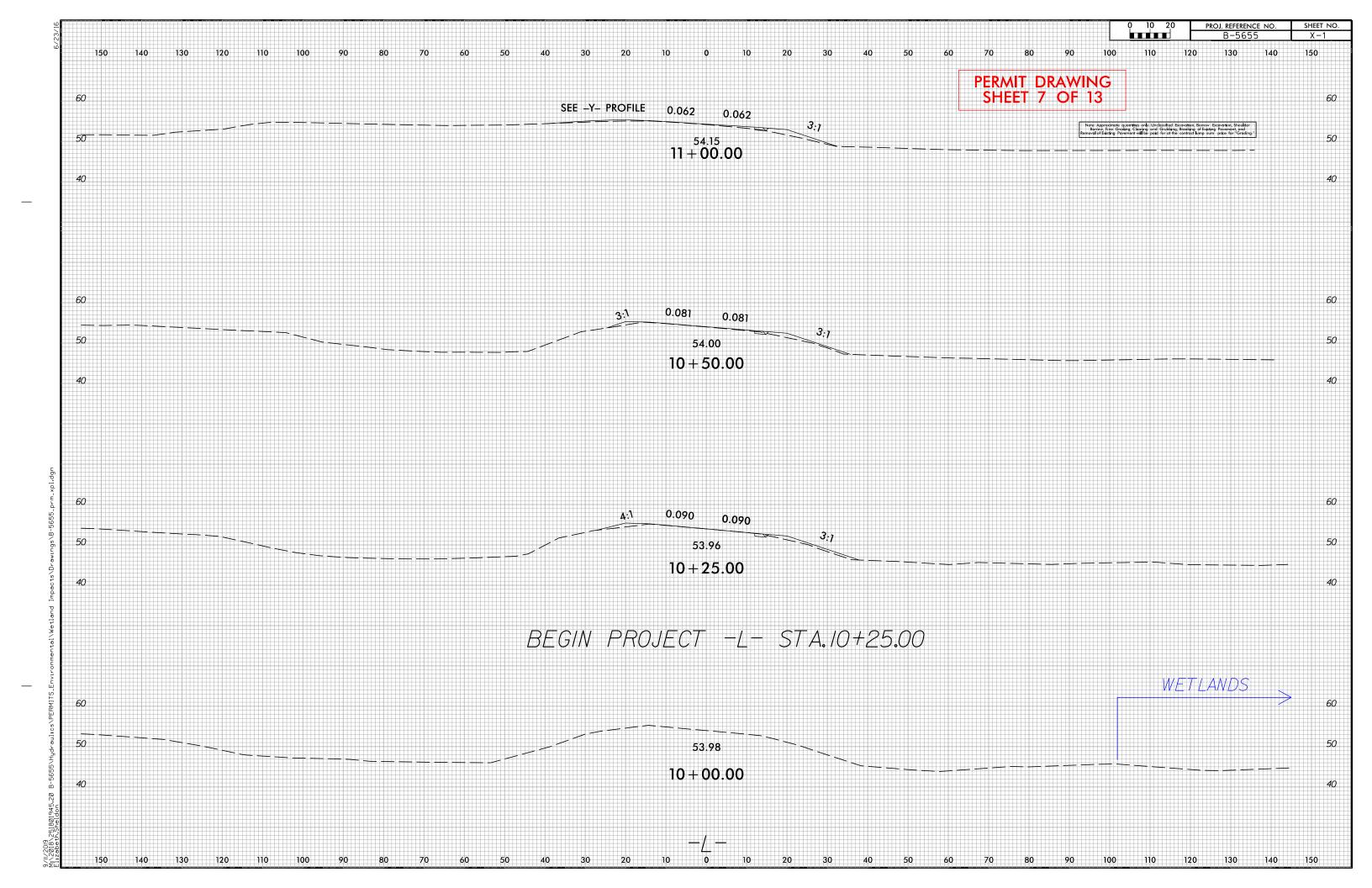


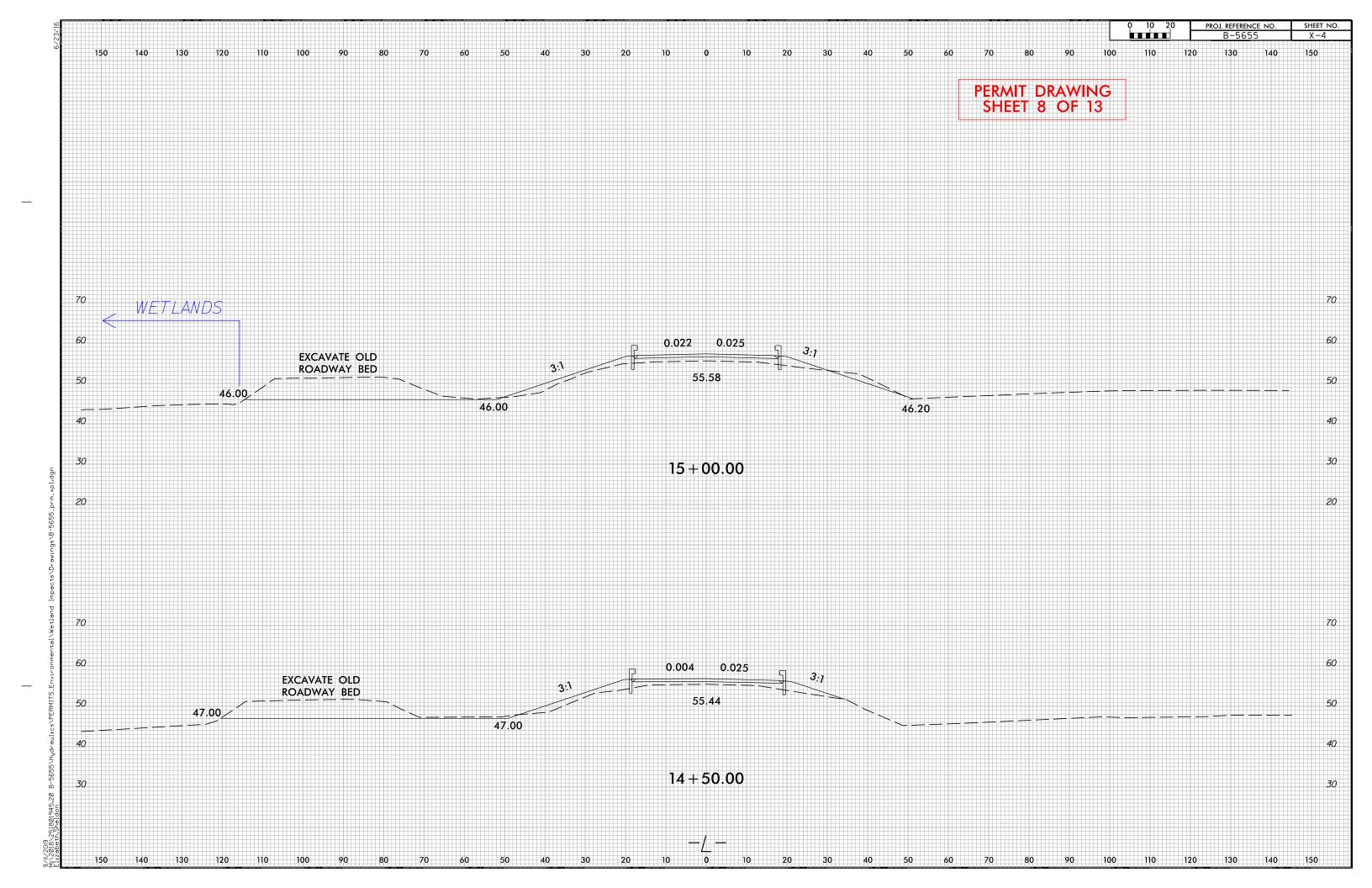


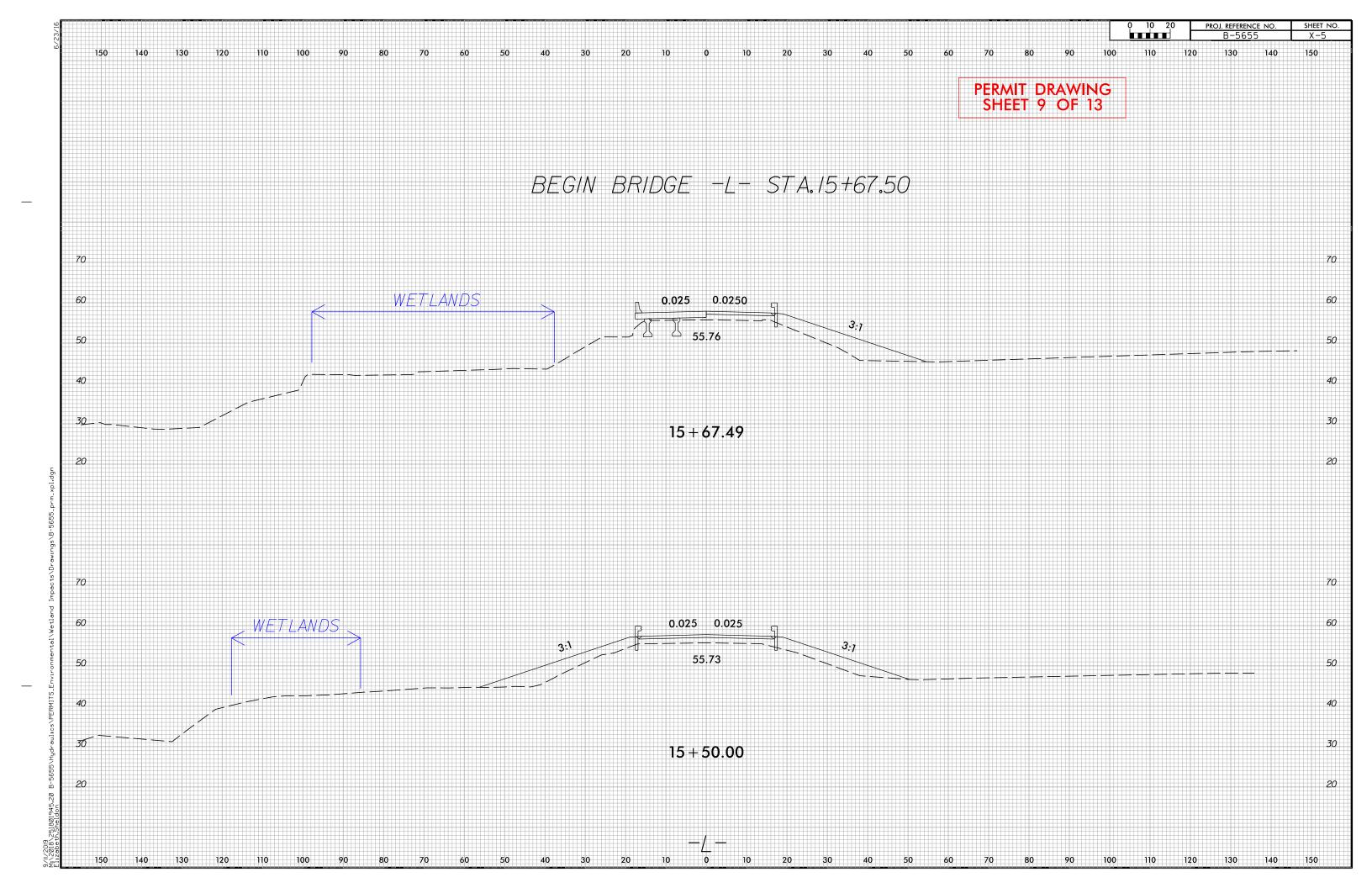


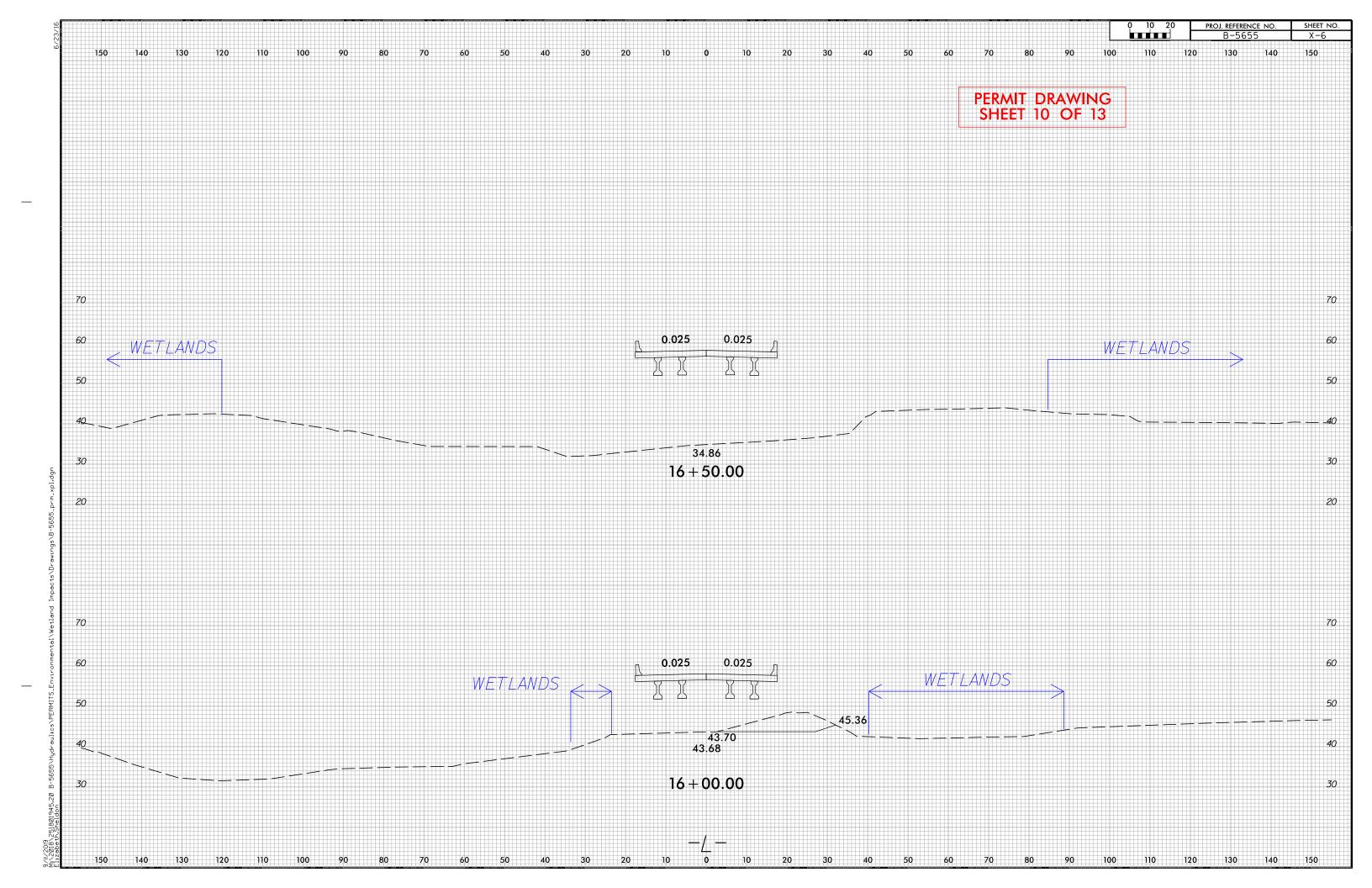


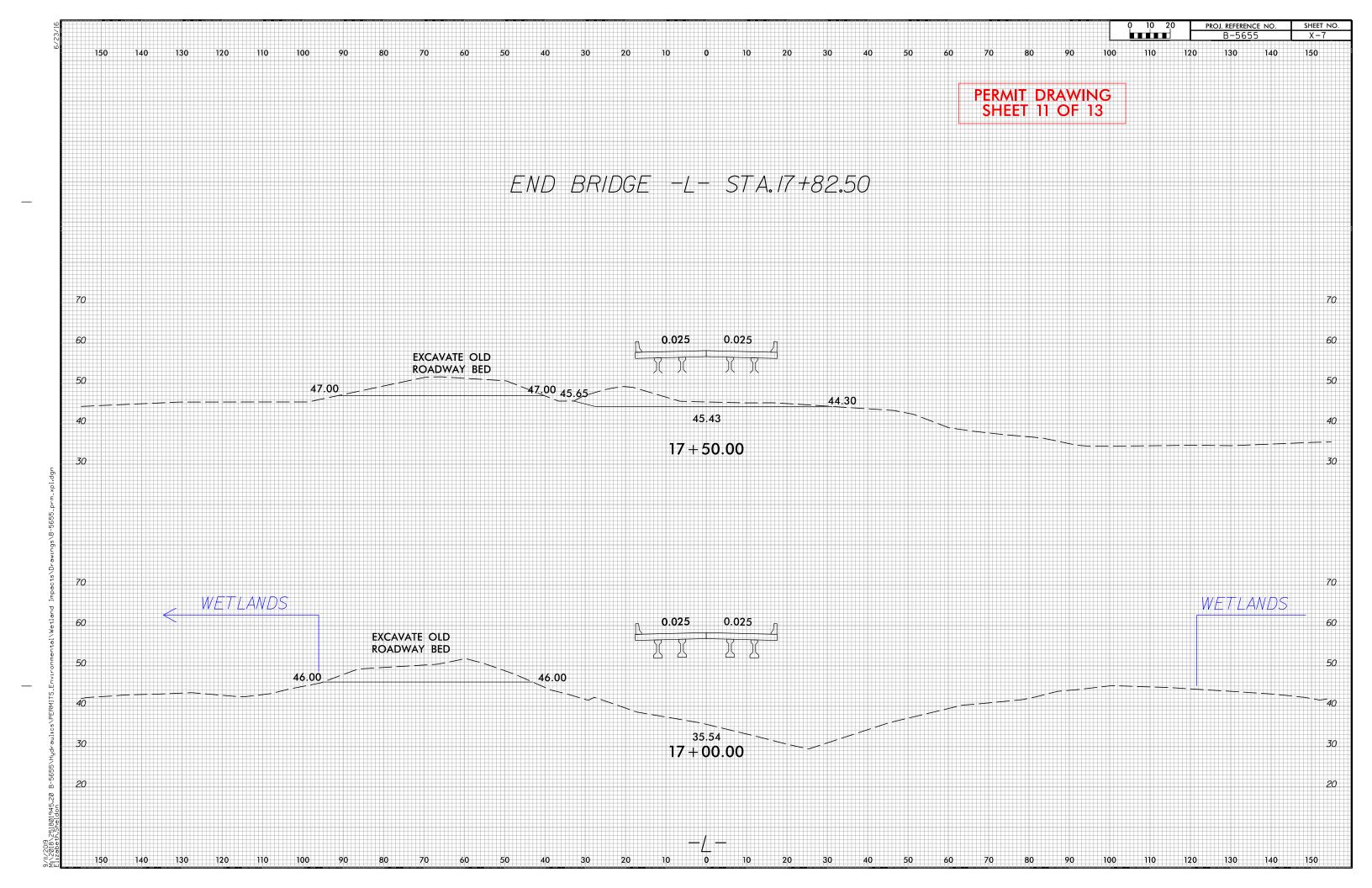


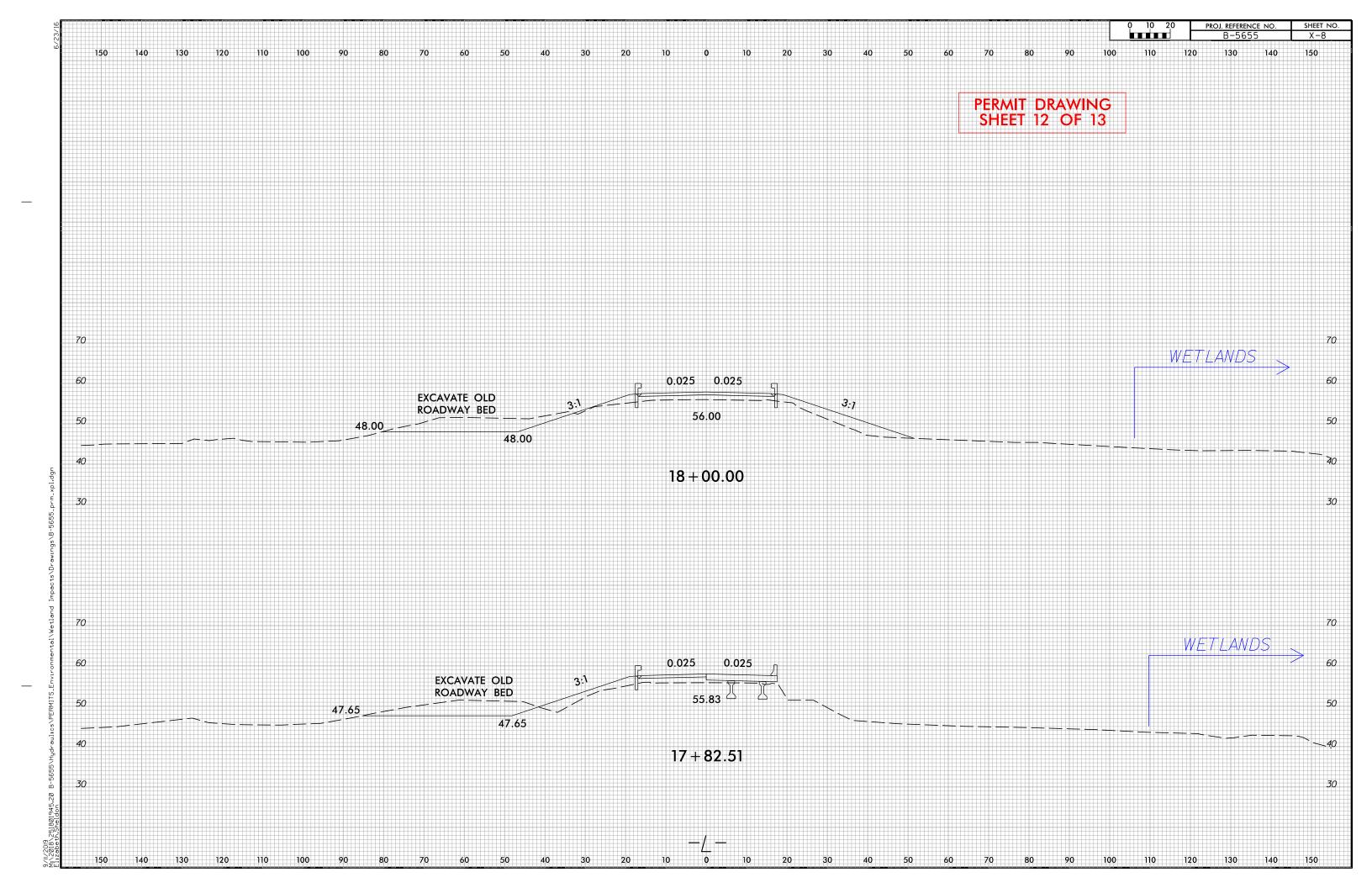












	WETLAND AND SURACE WATER IMPACTS SUMMARY											
				WE	TLAND IMP	ACTS			SURFACE	WATER IM	PACTS	
							Hand			Existing	Existing	
			Permanent	Temp.	Excavation	Mechanized	Clearing	Permanent	Temp.	Channel	Channel	Natural
Site	Station	Structure	Fill In	Fill In	in	Clearing	in	SW	SW	Impacts	Impacts	Stream
No.	(From/To)	Size / Type	Wetlands	Wetlands	Wetlands	in Wetlands	Wetlands	impacts	impacts	Permanent	•	Design
			(ac)	(ac)	(ac)	(ac)	(ac)	(ac)	(ac)	(ft)	(ft)	(ft)
1	STA 16+06.0 RT TO	BENT REMOVAL	1						< 0.01		25	
	STA 17+42.36 RT	FROM BRIDGE										
2	STA 15+94.80 RT TO	A 15+94.80 RT TO CLEARING DUE TO				< 0.01						
	STA 16+18.58 RT ROADWAY											
2	STA 15+95.78 RT TO FILL IN WETLAND		< 0.01									
	STA 16+06.55 RT DUE TO ROADWAY											
3	STA 14+85.96 LT TO CLEARING DUE TO					0.02						
	STA 16+00.12 LT	ROADWAY										
4	STA 16+72.72 LT TO	WETLAND EXCAVATION			< 0.01	< 0.01						
	STA 17+15.29 LT	DUE TO ROADWAY										
TOTAL	S*:		< 0.01		< 0.01	0.03	_		< 0.01	0	25	0

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

NOTES:

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
10/8/2019
EDGECOMBE COUNTY
B-5655
45610.1.1

SHEET

13

OF

F 13

See Sheet 1A For Index of Sheets See Sheet 1B For Conventional Symbols 1301 1166 VICINITY MAP DETOUR ROUTE

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

### PERMIT DRAWING SHEET 1 OF 5

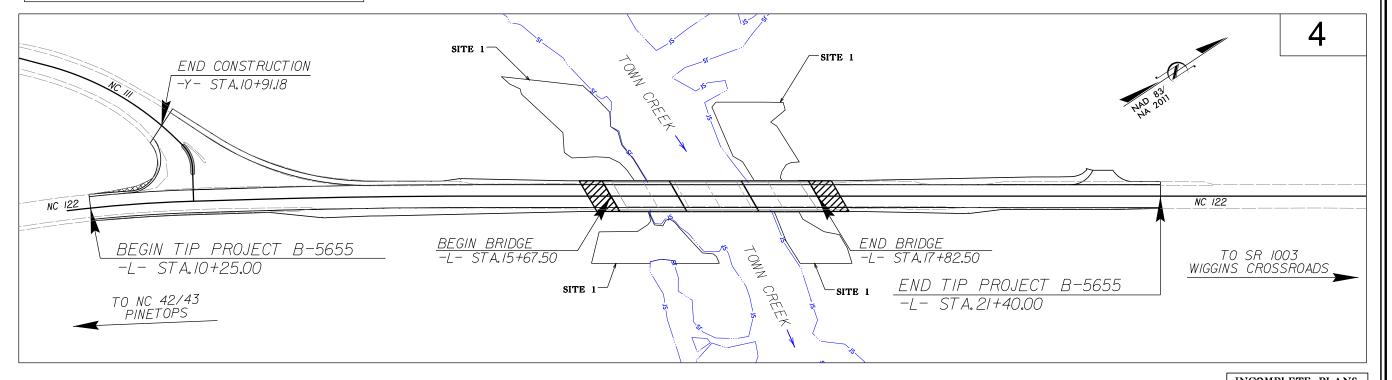
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	N.C.		B-	5655		1		
	STAT	E PROJ. NO.		F. A. PROJ. NO.		DESCRIPT	ION	
	45	610.1.1				P.E.		
	45	610.2.1				ROW/U	TIL.	
	45610.3.1					CONSTR.		

### EDGECOMBE COUNTY

LOCATION: REPLACE BRIDGE NO. 11 OVER TOWN CREEK ON NC 111/NC 122

TYPE OF WORK: GRADING, DRAINAGE, PAVING AND STRUCTURE

**BUFFER IMPACTS** 



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INCOMPLETE PLANS DOCUMENT NOT CONSIDERED FINAL
JNLESS ALL SIGNATURES COMPLETED



**GRAPHIC SCALES** 

**PLANS** 

PROFILE (HORIZONTAL)

PROFILE (VERTICAL)

### **DESIGN DATA**

ADT 2020 = 5075 ADT 2040 = 6900 K = 10 %

D = 55 %T = 4 %V = 60 MPH

(TTST = 2% + DUAL 2%)FUNC CLASS = MAJOR COLLECTOR **REGIONAL TIER** 

### **PROJECT LENGTH**

LENGTH OF ROADWAY TIP PROJECT B-5655 LENGTH OF STRUCTURE TIP PROJECT B-5655 = .041 MILES TOTAL LENGTH OF TIP PROJECT B-5655

RIGHT OF WAY DATE: = .211 MILES SEPTEMBER 3, 2019

LETTING DATE: MAY 19, 2020

NCDOT CONTACT:

Prepared in the Office of:

2018 STANDARD SPECIFICATIONS

KCI Associates of N.C., P.A. 4505 Falls of Neuse Road, Suite 40

DAVID STUTTS, P.E. STRUCTURES MANAGEMENT UNIT

BRYAN E. HOUGH. P.E.

PROJECT DESIGN ENGINEER

Plans Prepared For:

DIVISION OF HIGHWAYS

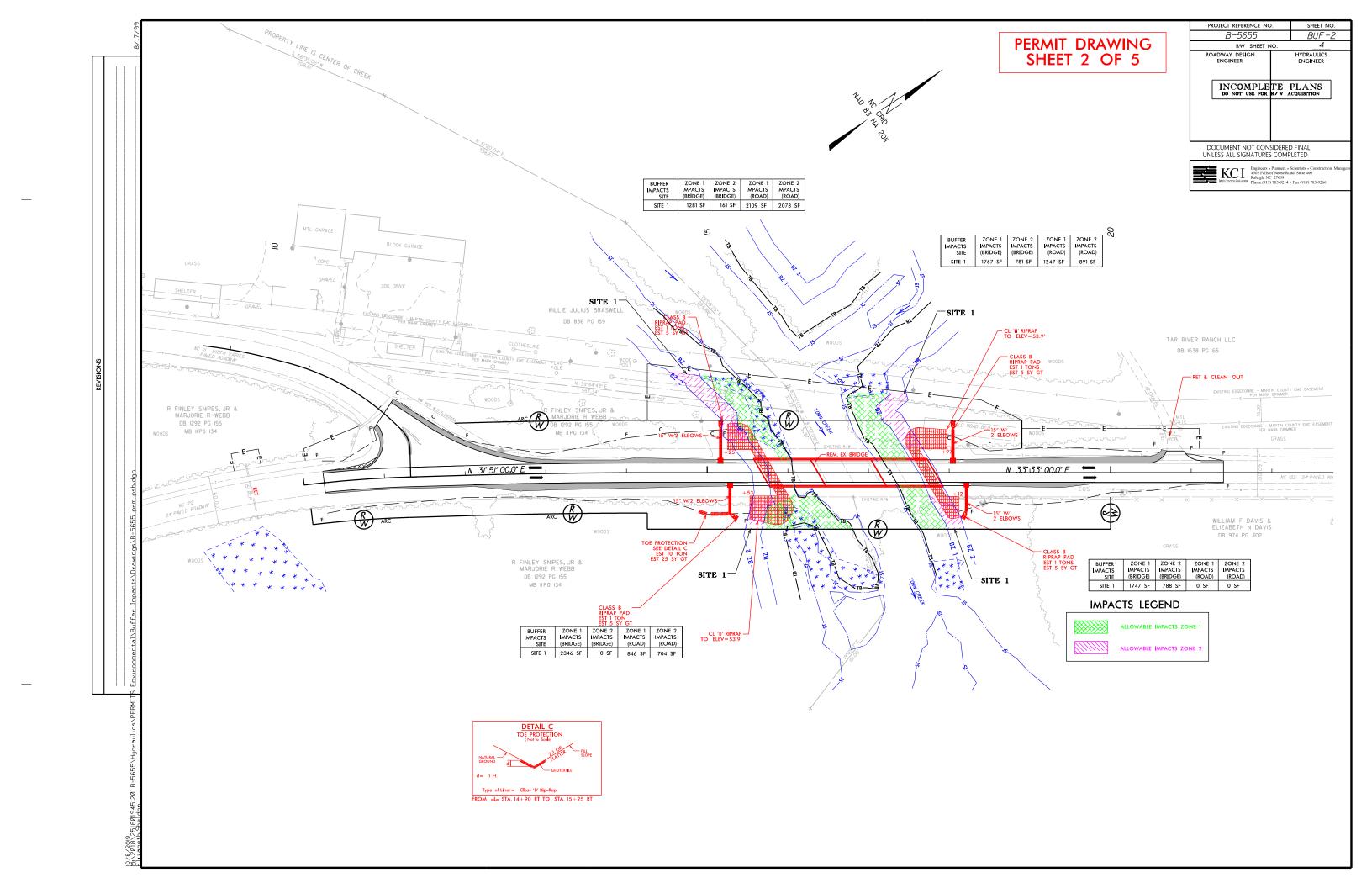
1000 Birch Ridge Dr. Raleigh NC, 27610

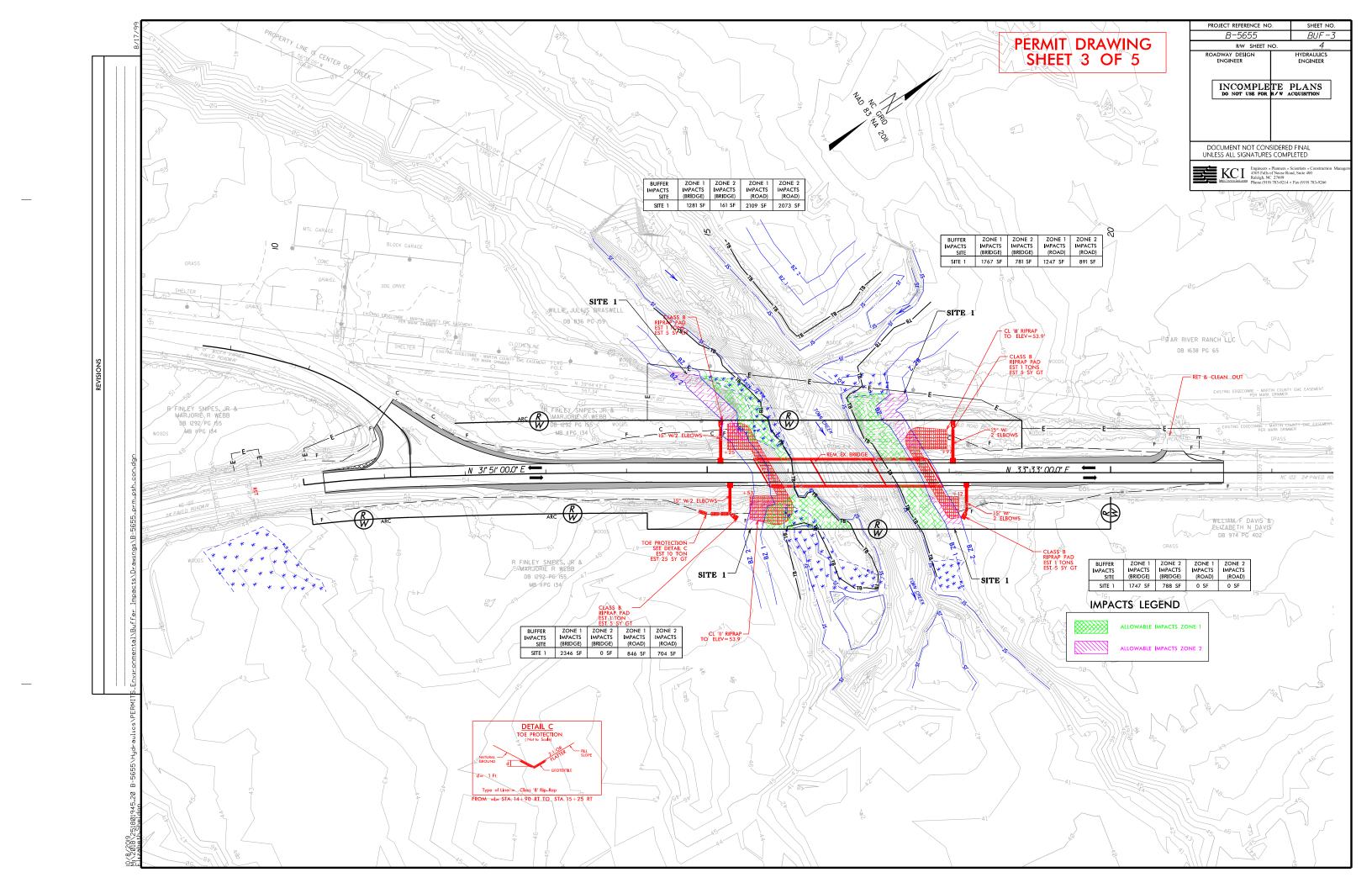
DEWAYNE L. SYKES, P.E.

### HYDRAULICS ENGINEER

ROADWAY DESIGN ENGINEER







			RIPARIAN				ACTS					Dite	
				TYPE		А	LLOWABL	.E	ſ	MITIGABLI	<u> </u>		FER CEMENT
Site No.	Station (From/To)	Structure Size / Type	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	STA 15+30 TO	215' BRIDGE		Х		1281.0	161.0	1442.0	,	,	,	, ,	
	STA 16+04 LT												
1	STA 14+53 TO	ROAD CROSSING	X			2109.0	2073.0	4182.0					
	STA 15+76 LT												
1	STA 15+89 TO	215' BRIDGE		Х		2346.0	0.0	2346.0					
	STA 16+81 RT												
1	STA 15+47 TO	ROAD CROSSING	X			846.0	704.0	1550.0					
	STA 16+07 RT												
1	STA 17+37 TO	215' BRIDGE		Х		1747.0	788.0	2535.0					
	STA 18+19 RT												
1	STA 16+85 TO	215' BRIDGE		Х		1767.0	781.0	2548.0					
	STA 17+64 LT												
1	STA 16+73 TO	ROAD CROSSING	Х			1247.0	891.0	2138.0					
	STA 17+49 LT												
TOTAL 6						44242		40=::					
TOTALS	o*:					11343	5398	16741	0	0	0	0	0

NOTES:

NC DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS 10/8/2019 EDGECOMBE COUNTY B-5655 45610.1.1

SHEET OF 5

	WETLANDS IN BUFFER IMPACTS SUMMARY									
				NDS IN FERS						
SITE NO.	STATION (FROM/TO)		ZONE 1 (ft²)	ZONE 2 (ft <sup>2</sup> )						
1	STA 14+85 TO		1017							
	STA 15+75 LT									
2	STA 15+58 TO		778							
	STA 16+00 LT									
1	STA 16+73 TO		100							
	STA 17+15 LT									
2	STA 15+95 TO		853							
	STA 16+42 RT									
TOTAL:			1731	0						

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
10/8/2019
EDGECOMBE COUNTY
B-5655
45610.1.1
SHEET 5 OF 5

See Sheet 1A For Index of Sheets See Sheet 1B For Conventional Symbols 1301 1166 VICINITY MAP DETOUR ROUTE

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

### PERMIT DRAWING SHEET 1 OF 5

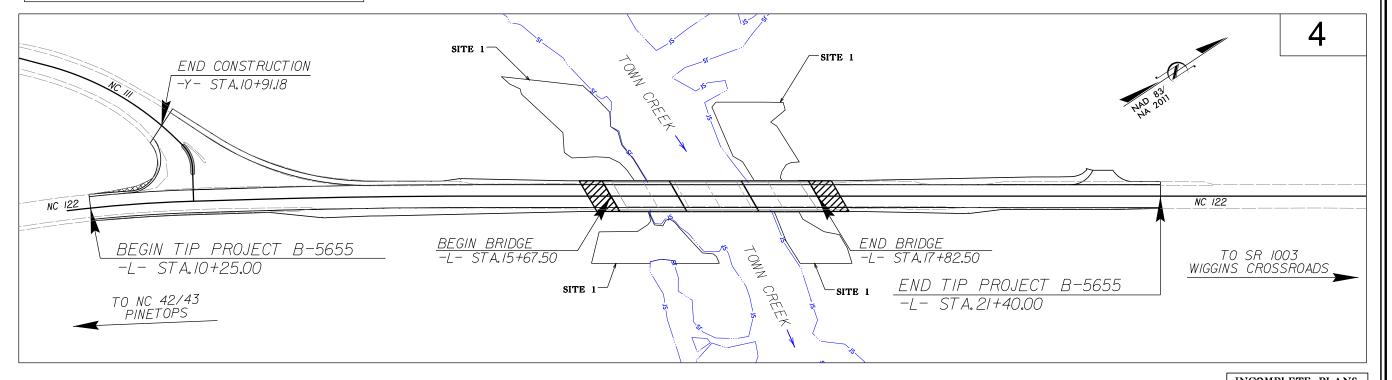
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	N.C.		B-	5655		1		
	STAT	E PROJ. NO.		F. A. PROJ. NO.		DESCRIPT	ION	
	45	610.1.1				P.E.		
	45	610.2.1				ROW/U	TIL.	
	45610.3.1					CONSTR.		

### EDGECOMBE COUNTY

LOCATION: REPLACE BRIDGE NO. 11 OVER TOWN CREEK ON NC 111/NC 122

TYPE OF WORK: GRADING, DRAINAGE, PAVING AND STRUCTURE

**BUFFER IMPACTS** 



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INCOMPLETE PLANS DOCUMENT NOT CONSIDERED FINAL
JNLESS ALL SIGNATURES COMPLETED



**GRAPHIC SCALES** 

**PLANS** 

PROFILE (HORIZONTAL)

PROFILE (VERTICAL)

### **DESIGN DATA**

ADT 2020 = 5075 ADT 2040 = 6900 K = 10 %

D = 55 %T = 4 %V = 60 MPH

(TTST = 2% + DUAL 2%)FUNC CLASS = MAJOR COLLECTOR **REGIONAL TIER** 

### **PROJECT LENGTH**

LENGTH OF ROADWAY TIP PROJECT B-5655 LENGTH OF STRUCTURE TIP PROJECT B-5655 = .041 MILES TOTAL LENGTH OF TIP PROJECT B-5655

RIGHT OF WAY DATE: = .211 MILES SEPTEMBER 3, 2019

LETTING DATE: MAY 19, 2020

NCDOT CONTACT:

Prepared in the Office of:

2018 STANDARD SPECIFICATIONS

KCI Associates of N.C., P.A. 4505 Falls of Neuse Road, Suite 40

DAVID STUTTS, P.E. STRUCTURES MANAGEMENT UNIT

BRYAN E. HOUGH. P.E.

PROJECT DESIGN ENGINEER

Plans Prepared For:

DIVISION OF HIGHWAYS

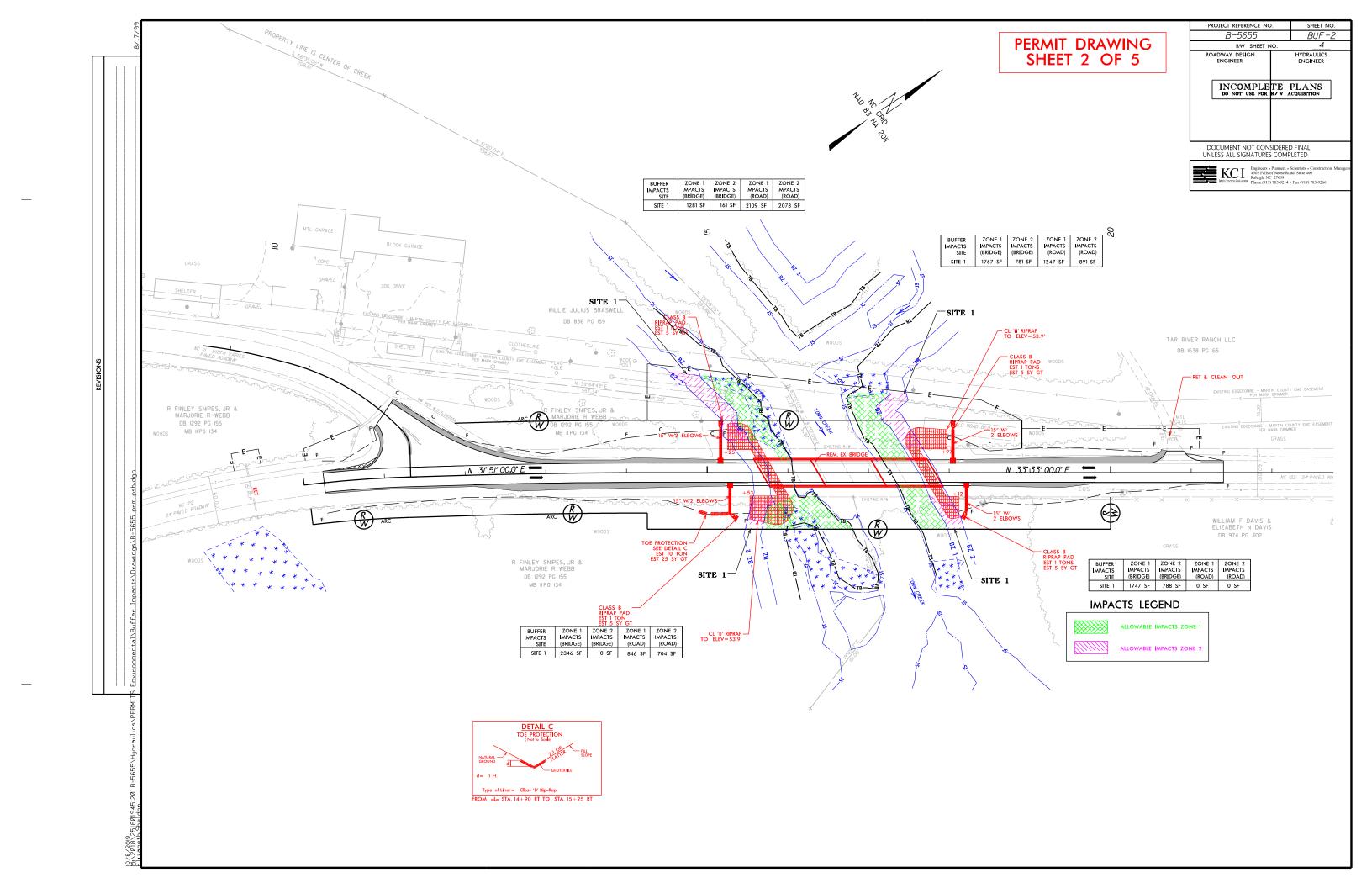
1000 Birch Ridge Dr. Raleigh NC, 27610

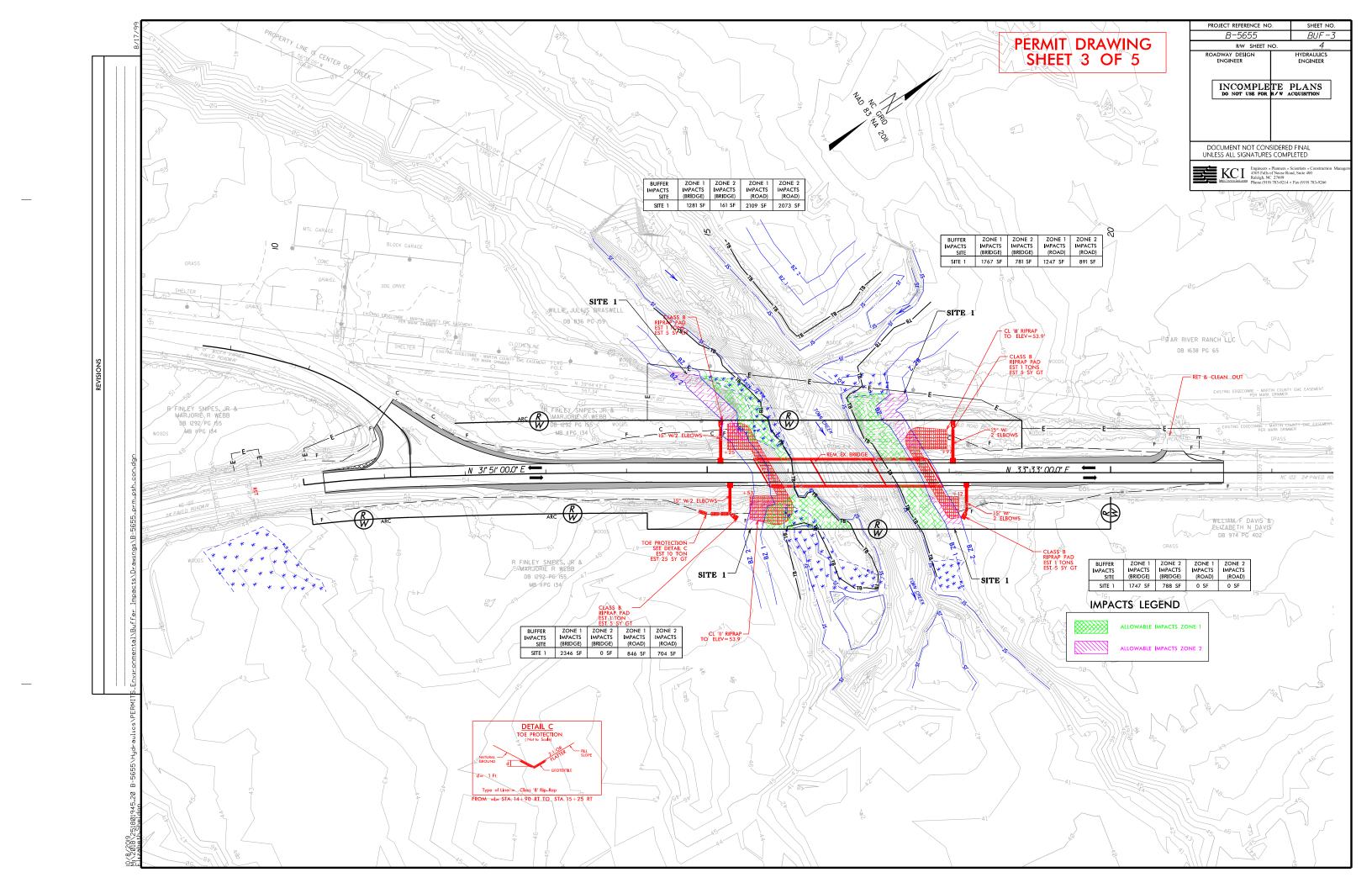
DEWAYNE L. SYKES, P.E.

### HYDRAULICS ENGINEER

ROADWAY DESIGN ENGINEER







•	<u>-</u>					IMP	ACTS					RHE	FFER
				TYPE		ALLOWABLE			MITIGABLE			REPLACEMENT	
Site No.	Station (From/To)	Structure Size / Type	ROAD CROSSING	BRIDGE	PARALLEL IMPACT	ZONE 1 (ft <sup>2</sup> )	ZONE 2 (ft <sup>2</sup> )	TOTAL (ft²)	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
1	STA 15+30 TO	215' BRIDGE		Х		1281.0	161.0	1442.0				, ,	
	STA 16+04 LT												
1	STA 14+53 TO	ROAD CROSSING	X			2109.0	2073.0	4182.0					
	STA 15+76 LT												
1	STA 15+89 TO	215' BRIDGE		Х		2346.0	0.0	2346.0					
	STA 16+81 RT												
1	STA 15+47 TO	ROAD CROSSING	X			846.0	704.0	1550.0					
	STA 16+07 RT												
1	STA 17+37 TO	215' BRIDGE		Х		1747.0	788.0	2535.0					
	STA 18+19 RT												
1	STA 16+85 TO	215' BRIDGE		Х		1767.0	781.0	2548.0					
	STA 17+64 LT												
1	STA 16+73 TO	ROAD CROSSING	Х			1247.0	891.0	2138.0					
	STA 17+49 LT												
OTALS						11343	5398	16741				0	

NOTES:

NC DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS 10/8/2019 EDGECOMBE COUNTY B-5655 45610.1.1

SHEET OF 5

	WETLANDS IN BUFFER IMPACTS SUMMARY									
				NDS IN FERS						
SITE NO.	STATION (FROM/TO)		ZONE 1 (ft <sup>2</sup> )	ZONE 2 (ft <sup>2</sup> )						
1	STA 14+85 TO		1017							
	STA 15+75 LT									
2	STA 15+58 TO		778							
	STA 16+00 LT									
1	STA 16+73 TO		100							
	STA 17+15 LT									
2	STA 15+95 TO		853							
	STA 16+42 RT									
TOTAL:			1731	0						

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
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SHEET 5 OF 5