

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

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

April 11, 2020 Ver 3.1

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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

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

Halifax

#### 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-5662

#### WBS #\*

45617.1.1 (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)

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

Nationwide Permit (NWP)

Regional General Permit (RGP)

Standard (IP)

This form may be used to initiate the standard/individual permit process with the Corps. Please contact your Corps representative concerning submittals for standard permits. All required items that are not provided in the E-PCN can be added to the miscellaneous upload area located at the bottom of this form.

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

○ Yes ⊙ No

Nationwide Permit (NWP) Number:	23 - Categorical Exclusions
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:*	
401 Water Quality Certification - Regular	401 Water Quality Certification - Express
<ul> <li>Non-404 Jurisdictional General Permit</li> <li>Individual Permit</li> </ul>	Riparian Buffer Authorization
1e. Is this notification solely for the record because writte	n approval is not required?
	*
For the record only for DWR 401 Certification:	○ Yes ⊙ No
For the record only for Corps Permit:	C Yes © No

If. Is this an after-the-fact pe	rmit application?*	
◯ Yes	⊙ No	
1g. Is payment into a mitigati	on bank or in-lieu fee program proposed for mitig	jation of impacts?
If so, attach the acceptance letter from	mitigation bank or in-lieu fee program	
• Yes	○ No	
Acceptance Letter Attachme	nt	
Click the upload button or drag and drop	files here to attach document	
B-5662 - RW - RO 07 (UNDER)	pdf	468.49KB
FILETYPEMUST BEPDF		
1h. Is the project located in a	nny of NC's twenty coastal counties?*	
O Yes	⊙ No	
lj. 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:**\* gcashin@ncdot.gov

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

Owner (Check all that apply)

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

OYes ⊙No

#### 2. Owner Information

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

2b. Deed book and page no.:

2c. Responsible party:

(for Corporations)

2d. Address\*

1000 Birch Ridge Drive

Address Line 2

<mark>City</mark> Raleigh

Postal / Zip Code

27604

2e. Telephone Number:\*

(xxx)xxx-xxxx

(919)707-6107

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:\* Bridge No. 93 on NC 561 over Conoconnara Swamp (B-5662 Central)

1b. Subdivision name:

#### **1c. Primary Contact Phone:**\* (xxx)xxx-xxxx (919)707-6107

Applicant (other than owner)

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State / Province / Region NC Country USA 1c. Nearest municipality / town:\*

#### Halifax

2. Project Identification	
2a. Property Identification Number:	2b. Property size:
(tax PIN or parcel ID)	(in acres)

### 2c. Project Address

Street Address	
Address Line 2	

City Postal / Zip Code

State / Province / Region

#### 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:*	Longitude:*
36.269174	-77.483784
ex: 34.208504	-77.796371

#### 3. Surface Waters

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

Conconnara Swamp

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

С

#### Surface Water Lookup

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

Roanoke

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

030101070203

#### **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 of agricultural fields and low density residential areas interspersed with forestland along stream corridors.

Note that the consultant who prepared the NRTR mapped the entire project site as wetland site WA, not a wetland/stream complex with a definable stream channel.

#### 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) Click 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 pdf

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

8.3

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

(intermittent and perennial)

#### 200 feet

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

The purpose of this project is to replace a structurally deficient bridge built in 1939.

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

Bridge No. 93 will be replaced on the existing alignment. The roadway grade of the new bridge will be approximately the same as the existing structure. The new bridge will be approximately 110 feet long with two 12-foot lanes and 4-foot paved shoulders. Due to high traffic volumes, traffic will be detoured on-site during construction. The temporary detour will be 90 feet long and include two ten-foot lanes and two-foot shoulders.

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

 $(\land)$ 

4j. Please upload project drawings fo			
Oick the upload button or drag and drop files here t 20200401 B-5662 Environmental Pern		5.39MB	
File type must be pdf			
5. Jurisdictional Determin	ations		
5a. Have the wetlands or streams be	en delineated on the property or proposed impact are	s?*	
© Yes	C No	C Unknown	
	ne wetland line was adjusted in April 2020 by Chad Coggins wetland boundary under typical water level conditions.		
5b. If the Corps made a jurisdictional	determination, what type of determination was made? fied ⓒ Unknown ⓒ NA	¢	
Corps AID Number: Example: SAW-2017-99999			
5c. If 5a is yes, who delineated the ju	risdictional areas?		
Name (if known):	Beth Reed and Ross Sullivan		
Agency/Consultant Company:	Kimley-Horn		
Other:			
5d1. Jurisdictional determination up	load		
Click the upload button or drag and drop files here t			
_TIP_B5662_PreliminaryJD_Request_28 File type must be PDF	SJUL2016.pdf	9.96MB	
6. Future Project Plans			
6a. Is this a phased project?*			
C Yes	© No		
		to be used, to authorize any part of the proposed project or related activity? T the Army authorization but don't require pre-construction notification.	ĥis
D. Proposed Impacts	Inventory		$\bigcirc$
1. Impacts Summary			
1a. Where are the impacts associate	d with your project? (check all that apply):		
▼ Wetlands	Streams-tributaries	☐ Buffers	

## 2. Wetland Impacts

C Open Waters

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

Pond Construction

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

2a. Site # <sup>*</sup> (?)	2a1 Reason * (?)	2b. Impact type * (?)	2c. Type of W. <sup>*</sup>	2d. W. name *			2g. Impact area <sup>*</sup>
1	Roadway fill	Р	Riverine Swamp Forest	WA	Yes	Both	0.732 (acres)
1	Excavation	Р	Riverine Swamp Forest	WA	Yes	Both	0.003 (acres)
1	Mechanized clearing	Р	Riverine Swamp Forest	WA	Yes	Both	0.164 (acres)
1	Temporary fill	т	Riverine Swamp Forest	WA	Yes	Both	0.034 (acres)

#### 2g. Total Temporary Wetland Impact

0.034

#### 2g. Total Permanent Wetland Impact

0.899

**2g. Total Wetland Impact** 0.933

# E. Impact Justification and Mitigation

#### 1. Avoidance and Minimization

	to avoid or minimize the proposed impact	
3:1 slopes will be constructed in wetlands for the bridge replacement. The temporary detour will be built using 2:1 slopes in wetlands.		
1b. Specifically describe measures taken	to avoid or minimize the proposed impact	s through construction techniques: *
The temporary detour fill will be removed, the	area will be regraded to adjacent wetland eleva	ation and replanted with riparian vegetation. Best
Management Practices for Construction and I	Maintenance Activities will be adhered to. See a	ttached SMP for additional information.
2. Compensatory Mitigation fo	r Impacts to Waters of the U.S.	or Waters of the State
2a. Does the project require Compensate	ory Mitigation for impacts to Waters of the	J.S. or Waters of the State?
© Yes	C No	
2c. If yes, mitigation is required by (chec	k 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 Pay	nent to In-lieu Fee Program	
4a. Approval letter from in-lieu fee progr	am is attached.	
⊙ Yes ⊂ No		
4b. Stream mitigation requested: (linear feet)		4c. If using stream mitigation, what is the stream temperature:
NC Stream Temperature Classification Maps	can be found under the Mitigation Concepts ta	b on the Wilmington District's RIBITS website.
		4e. Riparian wetland mitigation requested:
4d. Buffer mitigation requested (DWR on	ly):	(acres)
(square feet)		0.899

4f. Non-riparian wetland mitigation requested: (acres)

0.899 4g. Coastal (tidal) wetland mitigation requested: (arres)

4h. Comments

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

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\*\*\* 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?

O Yes

No

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

#### If no, explain why:

The project is in the Roanoke River Basin where there are no applicable buffer protection rules.

#### 2. Stormwater Management Plan

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

⊙ Yes ⊂ No

Comments:

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G. Supplementary Information
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#### 1. Environmental Documentation

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

C No

No
 No

No
 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.)\* O Yes O No

#### Comments:\*

The CE prepared for this project does not require State Clearing House circulation.

#### 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

#### 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

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

Due to minimal transportation impact resulting from the bridge replacement the 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 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 are	a with federally protected species or habi	tat?*
© Yes	© No	
5b. Have you checked with the USFWS con	cerning Endangered Species Act impacts	?*
Yes	C No	
5c. If yes, indicate the USFWS Field Office Raleigh	you have contacted.	
5d. Is another Federal agency involved?*		
• Yes	C No	O Unknown
What Federal Agency is involved? NOAA Fisheries		
5e. Is this a DOT project located within Division's 1-8?*		
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 website, field surveys. Biological Conclusions of No Effect were reached for the red-cockaded woodpecker, dwarf wedgemussel and Tar River spinymussel. Coordination with NOAA Fisheries resulted in a No Effect call for Atlantic Sturgeon. The Northern long-eared bat will be addressed by the Programmatic Biological Opinion.		
Consultation Documentation Upload		
Click the upload button or drag and drop files here to attach	document	

File type must be PDF

#### 6. Essential Fish Habitat (Corps Requirement)

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

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

#### 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/hpoweb/

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)?\*

**7b. What data sources did you use to determine whether your site would impact historic or archeological resources?**\* Coordination with the State Historic Preservation Office and field surveys.

7c. Historic or Prehistoric Information Upload

Click the upload button or drag and drop files here to attach document File must be PDF

#### 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

C No

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

Hydraulics Unit coordination with FEMA.

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

FEMA maps.

# **Miscellaneous**

#### Comments

A copy of the CE can be found at: https://xfer.services.ncdot.gov/pdea/EnvironmentalDocs/Documents/

#### Miscellaneous attachments not previously requested.

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

File must be PDF or KIVZ

#### Signature

#### \*

#### 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. Rivenbank, III

Date 4/23/2020



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# Jurisdictional Determination Request



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: <u>http://www.saw.usace.army.mil/Missions/RegulatoryPermitProgram.aspx</u>, 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.

<u>NOTE TO CONSULTANTS AND AGENCIES</u>: 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.

<u>NOTE ON PART D - NCDOT REQUESTS</u>: 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.

<u>NOTE TO USDA PROGRAM PARTICIPANTS</u>: 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.

# A. PARCEL INFORMATION

Street Address:	N/A Linear Transportation Project
City, State:	Halifax, North Carolina
County:	Halifax
Directions:	See Figure 1: Vicinity Map

Parcel Index Number(s) (PIN):

N/A (Linear Transportation Project)

# **B. REQUESTOR INFORMATION**

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 Address <sup>1</sup> :	crivenbark@ncdot.gov

Select one:



I am the current property owner.

I am an Authorized Agent or Environmental Consultant<sup>2</sup>



Interested Buyer or Under Contract to Purchase

Other, please explain.

# C. PROPERTY OWNER INFORMATION

Name:	NCDOT; ATTN: Chris Rivenbark, Natural Environment Section
Mailing Address:	1598 Mail Service Center
<u> </u>	Raleigh, NC 27699-1598
Telephone Number:	(919) 707-6152
Electronic Mail Address <sup>3</sup> :	crivenbark@ncdot.gov

Proof of Ownership Attached (e.g. a copy of Deed, County GIS/Parcel/Tax Record data)

<sup>1</sup> If available

<sup>&</sup>lt;sup>2</sup> Must attach completed Agent Authorization Form

<sup>&</sup>lt;sup>3</sup> If available

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

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:

 $\boldsymbol{\checkmark}$ 

I am requesting that the Corps provide a <u>preliminary</u> JD for the property identified herein. This request does include a delineation.

I am requesting that the Corps provide a <u>preliminary</u> JD for the property identified herein. This request does NOT include a delineation.

I am requesting that the Corps investigate the property/project area for the presence or absence of WoUS<sup>5</sup> and provide an <u>approved JD</u> for the property identified herein. This request does NOT include a request for a verified delineation.

I am requesting that the Corps delineate the boundaries of all WoUS on a property/project area and provide an <u>approved JD</u> (this may or may not include a survey plat).

I am requesting that the Corps evaluate and approve a delineation of WoUS (conducted by others) on a property/project area and provide an <u>approved JD</u> (may or may not include a survey plat).

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

<sup>&</sup>lt;sup>5</sup> Waters of the United States

# F. ALL REQUESTS

Map of Property or Project Area (attached). This Map must clearly depict the boundaries of the area of evaluation.



|

Size of Property or Project Area <sup>13.15</sup> acres

I verify that the property (or project) boundaries have recently been surveyed and marked by a licensed land surveyor <u>OR</u> are otherwise clearly marked or distinguishable.

# G. JD REQUESTS FROM CONSULTANTS OR AGENCIES

(1) Preliminary JD Requests:



Completed and signed <u>Preliminary Jurisdictional Determination Form<sup>6</sup></u>.



Project Coordinates: <u>36.268964</u> Latitude <u>-77.483907</u> Longitude

Maps (no larger than 11x17) with Project Boundary Overlay:



Large and small scale maps that depict, at minimum: streets, intersections, towns



Aerial Photography of the project area



USGS Topographic Map



Soil Survey Map



Other Maps, as appropriate (e.g. National Wetland Inventory Map, Proposed Site Plan, previous delineation maps, LIDAR maps, FEMA floodplain maps)

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

# Jurisdictional Determination Request

Deline	eation Information (when applicable) <sup>7</sup>							
Wetlat	nds: Wetland Data Sheets <sup>8</sup>	Tribut	aries: USACE Assessment Forms					
$\checkmark$	Upland Data Sheets Other Assessment Forms (when appropriate)							
	Landscape Photos, if taken							
$\checkmark$	<ul> <li>Field Sketch overlain on legible Map that includes:</li> <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> </ul>							
	<ul> <li>Locations of workand data points and/or modulary assessment reaches</li> <li>Locations of photo stations</li> <li>Approximate acreage/linear footage of aquatic resources</li> </ul>							
(2) Appro	ved JDs including Verification of a D	elineation:						
	Project Coordinates: Latitude Longitude							
Maps	Maps (no larger than 11x17) with Project Boundary Overlay:							
	Large and small scale maps that depi	ct, at minimun	n: streets, intersections, towns					
	Aerial Photography of the project area							
	USGS Topographic Map							
	Soil Survey Map							
	Other Maps, as appropriate (e.g. Nat previous delineation maps)	ional Wetland	Inventory Map, Proposed Site Plan,					

 <sup>&</sup>lt;sup>7</sup> 1987 Manual Regional Supplements and Data forms can be found at: <u>http://www.usace.army.mil/Missions/CivilWorks/RegulatoryProgramandPermits/reg\_supp.aspx</u>
 Wetland and Stream Assessment Methodologies can be found at: <u>http://portal.ncdenr.org/c/document\_library/get\_file?uuid=76f3c58b-dab8-4960-ba43-45b7faf06f4c&groupId=38364</u> and,

http://www.saw.usace.army.mil/Portals/59/docs/regulatory/publicnotices/2013/NCSAM\_Draft\_User\_Manual\_130318.pdf <sup>8</sup> Delineation information must include, at minimum, one wetland data sheet for each wetland/community type.

Delineation Information (when applicable):

	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	rting Jurisdictional Information (for Approve	ed JDs o	only)					
	Approved Jurisdictional Determination Form Form(s)")	m(s) (al	so known as "Rapanos					
	Map(s) depicting the potential (or lack of potential) hydrologic connection(s),							

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 hardcopy submittals include <u>at least one original Plat (to scale) that is no larger than 11"x17"</u> (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) PLATS 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:
<ul> <li>Must include acreage (or square footage) of wetland polygons</li> <li>Must identify each wetland polygon using an alphanumeric system</li> </ul>

 Jurisdictional Determination Request
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 <u>not</u> jurisdictional.
Must include and survey all existing conveyances (pipes, culverts, etc.) that transport WoUS

# Jurisdictional Determination Request

# (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) GPS SURVEYS

For Surveys prepared using a Global Positioning System (GPS), the Survey must include all of 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**

- A. REPORT COMPLETION DATE FOR PRELIMINARY JURISDICTIONAL DETERMINATION (JD):\_\_\_\_\_
- B. NAME AND ADDRESS OF PERSON REQUESTING PRELIMINARY JD: NCDOT; ATTN: Chris Rivenbark, Natural Environment Section 1598 Mail Service Center; Raleigh, NC 27699-1598

# C. DISTRICT OFFICE, FILE NAME, AND NUMBER:

# D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION:

# (USE THE ATTACHED TABLE TO DOCUMENT MULTIPLE WATERBODIES AT DIFFERENT SITES)

Stat	e: NC	County/parish/b	orough: <u>Hali</u>	fax	City: Halifax		
		linates of site (lat	•		,	_°W.	
Univ	/ersal Tra	ansverse Mercate	or: <u>18</u>				
Nan	ne of nea	rest waterbody:	Conoconnara Sv	vamp			
Ν	von-wetla	mate) amount of and waters: linear feet:					acres.
(	Cowardir	Class: <u>N/A</u>					
S	Stream F	low: <u>N/A</u>					
١	Netlands	: <u>8.3</u> a	cres.				
(	Cowardir	Class: Palustrine					
wate	•	water bodies on	the site tha	at have been i	dentified as	Sect	ion 10

Non-Tidal: N/A

E. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):
Office (Desk) Determination. Date:
Field Determination. Date(s):
SUPPORTING DATA. Data reviewed for preliminary JD (check all that apply - checked items should be included in case file and, where checked and requested, appropriately reference sources below): Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: NCDOT
<ul> <li>Data sheets prepared/submitted by or on behalf of the applicant/consultant.</li> <li>Office concurs with data sheets/delineation report.</li> <li>Office does not concur with data sheets/delineation report.</li> </ul>
Data sheets prepared by the Corps:
Corps navigable waters' study:
U.S. Geological Survey Hydrologic Atlas:
USGS NHD data
USGS 8 and 12 digit HUC maps
U.S. Geological Survey map(s). Cite scale & quad name: 1:24,000 - Boones Crossroads
USDA Natural Resources Conservation Service Soil Survey. Citation: Halifax County, 2006
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): <u>NC Statewide Orthoimagery Project (2015)</u> or
Other (Name & Date): Previous determination(s). File no. and date of response letter:
Other information (please 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.

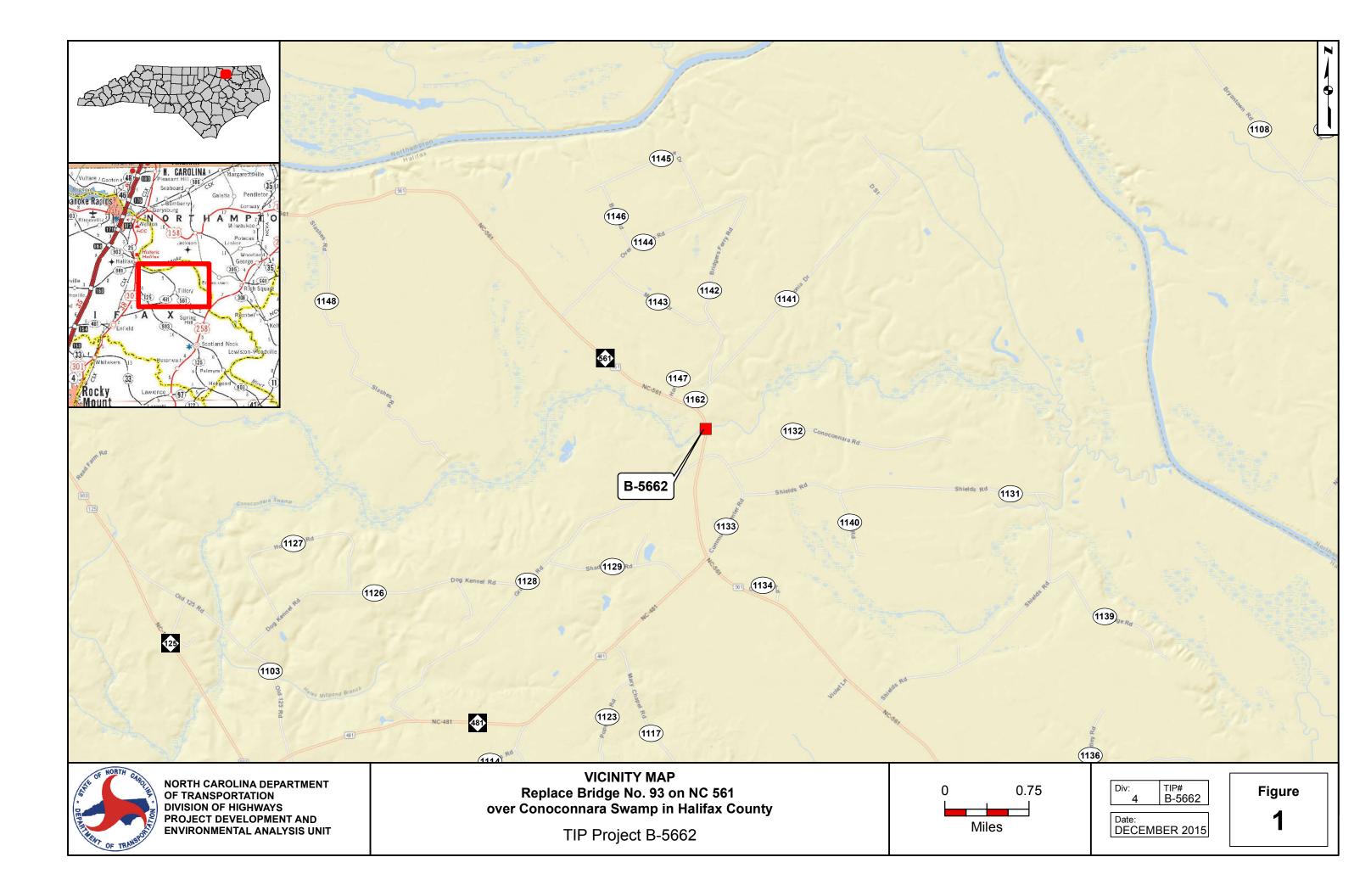
2. In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "pre-construction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has 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.

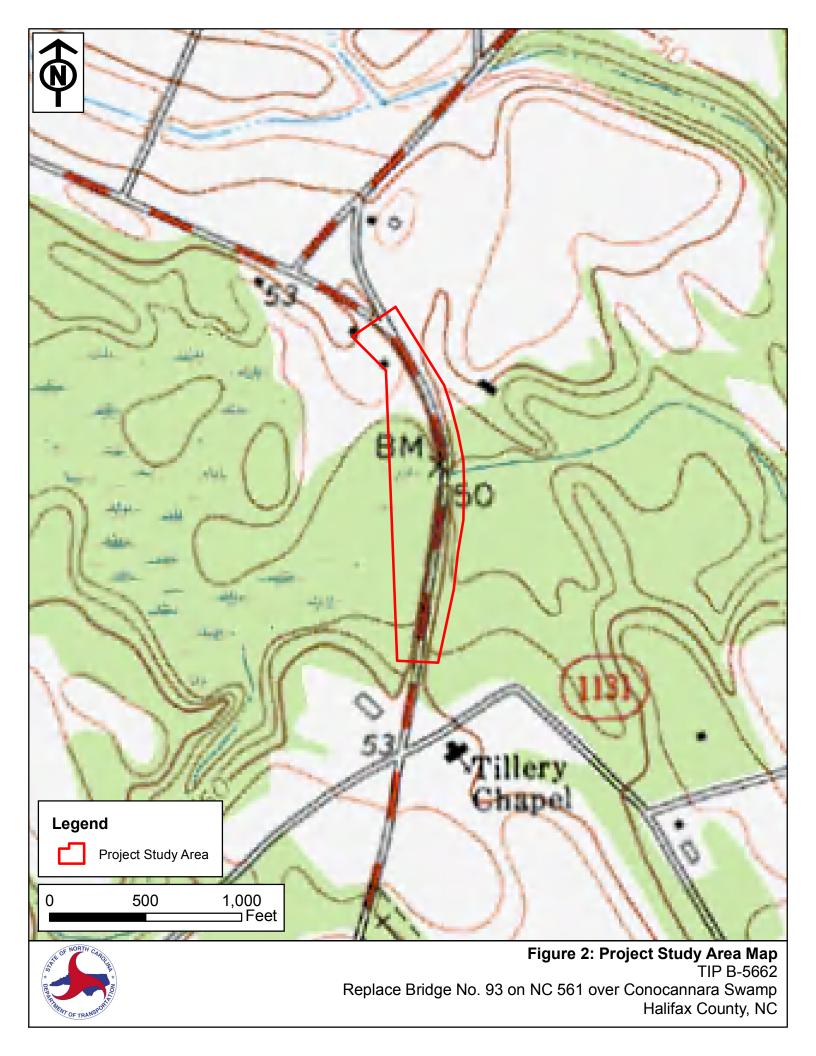
This preliminary JD finds that there *"may be"* waters of the United States on the subject project site, and identifies all aquatic features on the site that could be affected by the proposed activity, based on the following information:

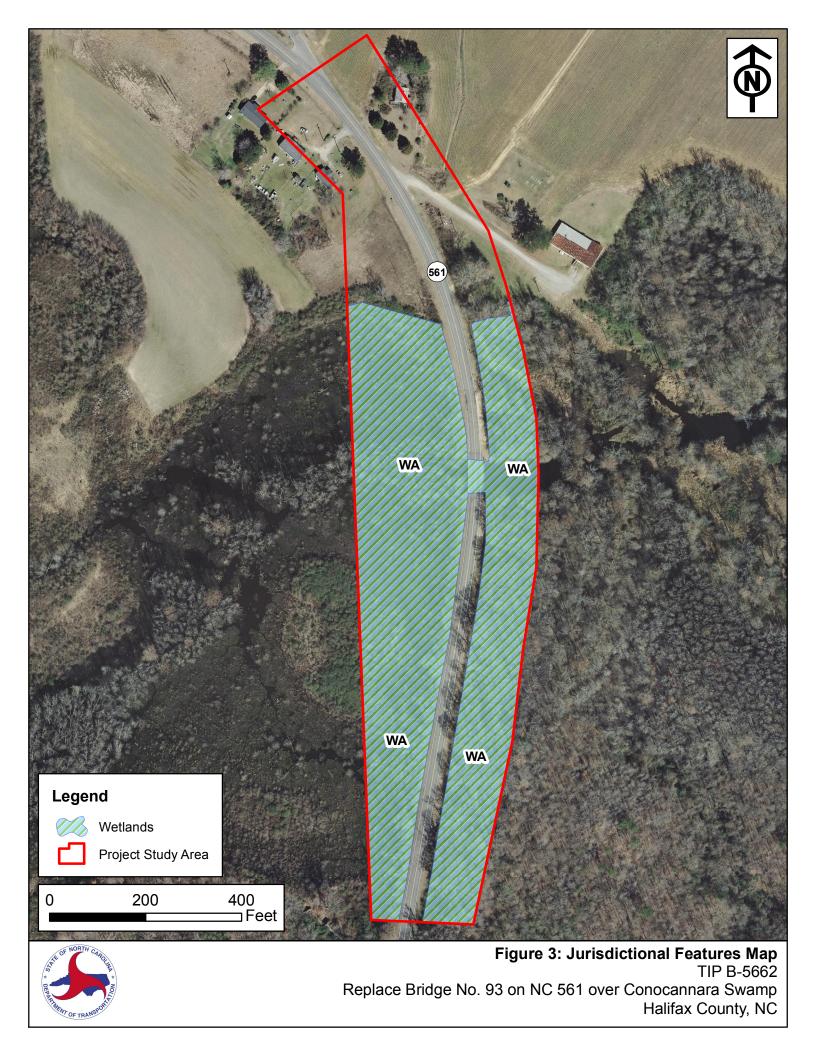
# IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations.

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
WA	36.269013	-77.484191	Palustrine	8.3 acres	Non-section
					10 – wetland









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

Project/Site: TIP# B-5662	City/County: Halifax		Sampling Date: <u>6/7/2016</u>
Applicant/Owner: NCDOT		State: NC	Sampling Point: WA-UP
Investigator(s): R. Sullivan & W. Sullivan (Kimley-Horn)	Section, Township, Range: H	alifax	
Landform (hillslope, terrace, etc.): Slight hillslope	Local relief (concave, convex,	none): Convex	Slope (%): 2%
Subregion (LRR or MLRA): LRR P Lat: 36.2	70110 Long:	77.483610	Datum: NAD83
Soil Map Unit Name: CwA - Chewacla and Wehadkee soils,	0 to 1 percent slopes	NWI classifica	ation: None
Are climatic / hydrologic conditions on the site typical for this time of y		(If no, explain in Re	
		Circumstances" p	
Are Vegetation Soil or Hydrology naturally pr	oblematic? (If needed, e	explain any answer	s in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	g sampling point location	ons, transects,	important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Remarks: Data point WA-UP was taken on a slight hills WA-WET.	Is the Sampled Area within a Wetland?	Yes	N₀ ✓
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicat	tors (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		Surface Soil (	
Surface Water (A1) Aquatic Fauna (B1	13)	Sparsely Veg	etated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B1	5) (LRR U)	Drainage Pat	terns (B10)
Saturation (A3) Hydrogen Sulfide		Moss Trim Lin	A CONTRACTOR AND A CONTRACTOR A
	neres along Living Roots (C3)		Vater Table (C2)
Sediment Deposits (B2) Presence of Redu		Crayfish Burr	
	ction in Tilled Soils (C6)		sible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface Iron Deposits (B5) Other (Explain in F		Geomorphic I	
Iron Deposits (B5) Other (Explain in F Inundation Visible on Aerial Imagery (B7)	(emarks)	Shallow Aquit FAC-Neutral	
Water-Stained Leaves (B9)			oss (D8) (LRR T, U)
Field Observations:		ophagnamm	
Surface Water Present? Yes No Depth (inches	s)-		
Water Table Present? Yes Yes No Depth (inclusion)	a): 15"		
Saturation Present? Yes Yes No Depth (inches	s): 15" Wetland H	lydrology Presen	t? Yes No
(includes capillary fringe)		3.11	
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspections), if ava	llable:	
Remarks:			
No hydrology indicators were observed.			

# VEGETATION (Four Strata) – Use scientific names of plants.

	Sampling	Point <sup>.</sup>	WA-UP
--	----------	--------------------	-------

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30'</u> )		<u>Species?</u>		
1. Platanus occidentalis	35%	Y	FACW	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2. Liquidambar styraciflua	30%	Y		
			FAC	Total Number of Dominant 9
3. <u>Acer rubrum</u>	30%	<u>Y</u>	FAC	Species Across All Strata: (B)
4. Fagus grandifolia	5%	<u>N</u>	FACU	Demonstrat Demois and On a size
5				Percent of Dominant Species 88.9% (A/B)
6				
				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8				
	100%	= Total Co	ver	OBL species x 1 =
50% of total cover: <u>50%</u>	6/20% of	f total cover	r: 20%	FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)				FAC species x 3 =
1. Ligustrum sinense	25%	Y	EAC	FACU species x 4 =
			FAC	UPL species x 5 =
2. Viburnum dentatum	10%	<u>Y</u>	FAC	
3. Rosa multiflora		<u>         N                           </u>	FACU	Column Totals: (A) (B)
4				
				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				$\overline{X}$ 2 - Dominance Test is >50%
8				
	40%	= Total Co		3 - Prevalence Index is ≤3.0 <sup>1</sup>
200				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover: <u>20</u> 9	<u>o</u> 20% of	i total cover	r: <u>8%</u>	
Herb Stratum (Plot size: <u>30'</u> )				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1. None				be present, unless disturbed or problematic.
				Definitions of Four Vegetation Strata:
2				Deminions of Four Vegetation Strata.
3				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
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine - All woody vines greater than 3.28 ft in
11				height.
12				
		= Total Co	ver	
50% of total cover:		f total cover		
	20700		•	
Woody Vine Stratum (Plot size: <u>30'</u> )	100/			
1. Smilax rotundifolia	10%	<u> </u>	FAC	
2. Campsis radicans	5%	<u> </u>	FAC	
3. Parthenocissus quinquefolia	5%	Y	FACU	
Toxicodendron radicans	5%	Y	FAC	
T				
5				Hydrophytic
	25%	= Total Co	ver	Vegetation
50% of total cover: <u>12.5</u>	% 20% of	f total cover	. 5%	Present? Yes Ves No
Remarks: (If observed, list morphological adaptations belo	w).			

## SOIL

Profile Desc Depth	ription: (Describ Matrix			n <b>ent the</b> i « Feature		r or confiri	m the absence of indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture Remarks
0-14"	10YR 4/4	100%					Sandy loam
14-18"	10YR 4/2	60%	10YR 4/4	40%	<u>C</u>	M	Sandy clay
18-24"	10YR 5/1	85%	10YR 4/5	15%	С	М	Sandy clay loam
						_	
					·		
					·		·
					·		
1							2
			=Reduced Matrix, MS LRRs, unless other			irains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils <sup>3</sup> :
			Polyvalue Be			IRRST	
	pipedon (A2)		Thin Dark Su				2 cm Muck (A10) (LRR S)
Black Hi	stic (A3)		Loamy Mucky	/ Mineral	(F1) (LR	R O)	Reduced Vertic (F18) (outside MLRA 150A, B)
	n Sulfide (A4)		Loamy Gleye		(F2)		Piedmont Floodplain Soils (F19) (LRR P, S, T)
	Layers (A5)	<b>B T</b> 10	Depleted Mat	. ,	-0)		Anomalous Bright Loamy Soils (F20)
	Bodies (A6) (LRR icky Mineral (A7) (I		Redox Dark S		,		(MLRA 153B) Red Parent Material (TF2)
	esence (A8) (LRR		Redox Depre				Very Shallow Dark Surface (TF12)
	ick (A9) (LRR P, T		Marl (F10) (L		<i>,</i>		Other (Explain in Remarks)
	d Below Dark Surfa	ce (A11)	Depleted Oct		-	-	
	ark Surface (A12)	(MIL D.A. 460)	Iron-Mangane		. ,	. ,	
	rairie Redox (A16) lucky Mineral (S1)	•	A) Umbric Surfa	· /	· ·		wetland hydrology must be present, unless disturbed or problematic.
	Bleyed Matrix (S4)	(,,,	Reduced Ver				•
	edox (S5)		Piedmont Flo				
	Matrix (S6)		Anomalous B	right Loai	my Soils	(F20) <b>(ML</b>	RA 149A, 153C, 153D)
	rface (S7) (LRR P, Layer (if observed						
Type:	Layer (II observed	<i>.</i>					
Depth (inc	ches):						Hydric Soil Present? Yes No
Remarks:							
No hydrio	c soil indicat	ors were	observed.				

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

Project/Site: TIP# B-5662	City/County: Halifax		Sampling Date: 6/7/2016
Applicant/Owner: NCDOT		State: NC	Sampling Point: WA-WET
Investigator(s): R. Sullivan & W. Sullivan (Kimley-Horn)	Section, Township, Range		
Landform (hillslope, terrace, etc.): Floodplain	Local relief (concave, con	17	Slope (%): 2%
Subregion (LRR or MLRA): LRR P Lat: 36.2		ng: -77.483563	Datum: NAD83
Soil Map Unit Name: CwA - Chewacla and Wehadkee soils,		15 - 17 - 17 - 17 - 17 - 17 - 17 - 17 -	ation: None
Are climatic / hydrologic conditions on the site typical for this time of yo		(If no, explain in R	
	Allena In March Mr. Lenand	ormal Circumstances" p	
Are Vegetation         Soil         or Hydrology         significantly           Are Vegetation         Soil         or Hydrology         naturally pr	Namba Margara And A	led, explain any answe	
SUMMARY OF FINDINGS – Attach site map showing	•		
Hydrophytic Vegetation Present?       Yes       ✓       No         Hydric Soil Present?       Yes       ✓       No         Wetland Hydrology Present?       Yes       ✓       No         Remarks:	Is the Sampled A within a Wetland?		No
Wetland WA is a large bottomland swamp na	amed Conocannar	a Swamp. No s	surface water was
present at data point WA-WET, but inches to		•	
the wetland.			
HYDROLOGY		Secondary India	tors (minimum of two required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)		Surface Soil	tors (minimum of two required) Cracks (B6)
Surface Water (A1)	) esse		getated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B1	101 second some and	Drainage Pat	
Saturation (A3)		Moss Trim Li	
Water Marks (B1)	neres along Living Roots (C	C3) Dry-Season	Water Table (C2)
Sediment Deposits (B2) Presence of Redu	ced Iron (C4)	🗸 Crayfish Bur	rows (C8)
	ction in Tilled Soils (C6)		sible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface			Position (D2)
Iron Deposits (B5)	Remarks)	Shallow Aqui	San San San San
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral	
Water-Stained Leaves (B9)		Sphaghumn	noss (D8) (LRR T, U)
Surface Water Present? Yes Ves No Depth (inches	1-2"		
Water Table Present? Yes Yes No Depth (inclusion)			
Saturation Present? Yes V No Depth (inches		and Hydrology Presen	t? Yes No
(includes capillary fringe)		-	
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspections), i	f available:	
Remarks:			
Wetland WA is a large bottomland swamp sy	stem that is flood	ed vear-round	No standing water
was observed at the wetland data point, but			<u> </u>
inches to several feet of water. Saturation an	u walei labie ODS		
burrows observed in WA.			

# VEGETATION (Four Strata) – Use scientific names of plants.

# Sampling Point: WA-WET

201	Absolute	Dominan	t Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30'</u> )		<u>Species</u>		Number of Dominant Species 8 (A)
1. <u>Platanus occidentalis</u>	30%	<u> </u>	FACW	That Are OBL, FACW, or FAC: 0 (A)
2. <u>Acer rubrum</u>	30%	<u> </u>	FAC	Total Number of Dominant 9
3. <u>Ulmus rubra</u>	15%	<u>N</u>	FAC	Species Across All Strata: 9 (B)
4. Fraxinus pennsylvanica	15%	<u>     N</u>	FACW	Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
6				
7				Prevalence Index worksheet:
8				Total % Cover of:Multiply by:
	90%	= Total Co	ver	OBL species x 1 =
50% of total cover: <u>45</u> %				FACW species x 2 =
Sapling/Shrub Stratum (Plot size: <u>30'</u> )	<u> </u>		<u></u>	FAC species x 3 =
1. Lindera benzoin	5%	Y	FACW	FACU species x 4 =
2. Quercus michauxii	5%	Y	FACW	UPL species x 5 =
3. Ilex opaca	<u> </u>	<u> </u>		Column Totals: (A) (B)
· · · ·	<u> </u>		FAC	
4. Liquidambar styraciflua			FAC	Prevalence Index = B/A =
5			·	Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7			. <u> </u>	$\frac{X}{X}$ 2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 <sup>1</sup>
	20%	= Total Co	ver	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover: <u>10</u> %				
Herb Stratum (Plot size:)				
1 Saururus cernuus	20%	Y	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3				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
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	200%	= Total Co		
50% (1.1.1.1.1.0)				
50% of total cover: <u>109</u>	<u>/o</u> 20% of	r total cove	r: <u>4%</u>	
<u>Woody Vine Stratum</u> (Plot size: <u>30'</u> )	1 - 0 /	N/	<b>-</b>	
1. Smilax rotundifolia	<u>15%</u>	<u> </u>	FAC	
2. Parthenocissus quinquefolia	5%	Y	FACU	
3				
4				
5.				Hydrophytic
	20%	= Total Co	ver	Vegetation
50% of total cover: <u>10</u> %				Present? Yes V
		l total cove	I. <u> </u>	
Remarks: (If observed, list morphological adaptations belo	W).			
Numerous buttresssed trees were obse	arved w	ithin W	ΙΔ	
US Army Corps of Engineers				Atlantic and Gulf Coastal Plain Region – Version 2.0

(in chec)	Matrix Color (moist)	%	Color (moist)	ox Feature	s Type	<sup>1</sup> Loc <sup>2</sup>	- Texture	Demarka
( <u>inches)</u>  -3"	10YR 4/3	100%		%	iype		Loam	Remarks
-6"	10YR 5/2	55%	10YR 5/5	45%	C		- Clay	
-18"	10YR 5/2	<u> </u>	10YR 5/4	40%	<u>C</u>	— <u>M</u>	Clay	
8-24"	·				$\frac{c}{c}$			
.0-24	10YR 6/1	65%	10YR 5/6	35%	<u> </u>	<u>M</u>	Clay	
Histosol Histic E Black Hi Hydroge Stratified Organic 5 cm Mu Muck Pr 1 cm Mu Depleted Thick Da Coast P Sandy M	Indicators: (Appl	icable to all P, T, U) LRR P, T, U U) ace (A11) (MLRA 150.	Redox Dep Marl (F10) ( Depleted O Iron-Manga	erwise not Below Surfa Surface (S9 ky Mineral yed Matrix ( atrix (F3) c Surface (F ark Surface (F ark Surface (F chric (F11) nese Mass face (F13) c (F17) (MI	ed.) ce (S8) ) (LRR : (F1) (LF (F2) =6) e (F7) 8) (MLRA es (F12 (LRR P, .RA 151	(LRR S, T S, T, U) RR O) 151) ) (LRR O, , T, U)	Indicators f , U) 1 cm M 2 cm M Reduce Piedmo Anomal (MLR Red Pa Very Sł Other (f P, T) <sup>3</sup> Indica wetł unie	PL=Pore Lining, M=Matrix. for Problematic Hydric Soils <sup>3</sup> : luck (A9) (LRR O) luck (A10) (LRR S) ed Vertic (F18) (outside MLRA 150A, ont Floodplain Soils (F19) (LRR P, S, lous Bright Loamy Soils (F20) tA 153B) arent Material (TF2) hallow Dark Surface (TF12) Explain in Remarks) ators of hydrophytic vegetation and and hydrology must be present, ess disturbed or problematic.
Dark Su	l Matrix (S6) rface (S7) <b>(LRR P,</b> Layer (if observed ches):					5 (F20) (ML	.RA 149A, 153C, Hydric Soil	
oil satu	ration and th	ne water	table was ol	bservec	l at 1	0" with	in the soil p	orofile.



ROY COOPER Governor MICHAEL S. REGAN Secretary TIM BAUMGARTNER Director

April 23, 2020

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-5662, Replace Bridge 91 on NC 561 over Conoconnara Swamp, Halifax County

The purpose of this letter is to notify you that the Division of Mitigation Services (DMS) will provide the compensatory wetland mitigation for the subject project. Based on the information supplied by you on April 22, 2020, the impacts are located in CU 03010107 of the Roanoke River basin in the Northern Inner Coastal Plain (NICP) Eco-Region, and are as follows:

Roanoke	Stream				Wetlands		Buffer (Sq. Ft.)	
<b>03010107</b> NICP	Cold	Cool	Warm	Riparian	Non- Riparian	Coastal Marsh	Zone 1	Zone 2
Impacts (feet/acres)	0	0	0	0.899	0	0	0	0

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

The impacts and associated mitigation needs were under projected by the NCDOT in the 2020 impact data. DMS will commit to implement sufficient compensatory wetland mitigation credits to offset the impacts associated with this project as determined by the regulatory agencies using the delivery timeline listed in Section F.3.c.iii of the In-Lieu Fee Instrument dated July 28, 2010. If the above referenced impact amounts are revised, then this mitigation acceptance letter will no longer be valid and a new mitigation acceptance letter will be required from DMS.

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

Sincerely,

Tizabeth Harmon

James B. Stanfill DMS Asset Management Supervisor

cc: Mr. Monte Matthews, USACE – Raleigh Regulatory Field Office Ms. Amy Chapman, NCDWR File: B-5662

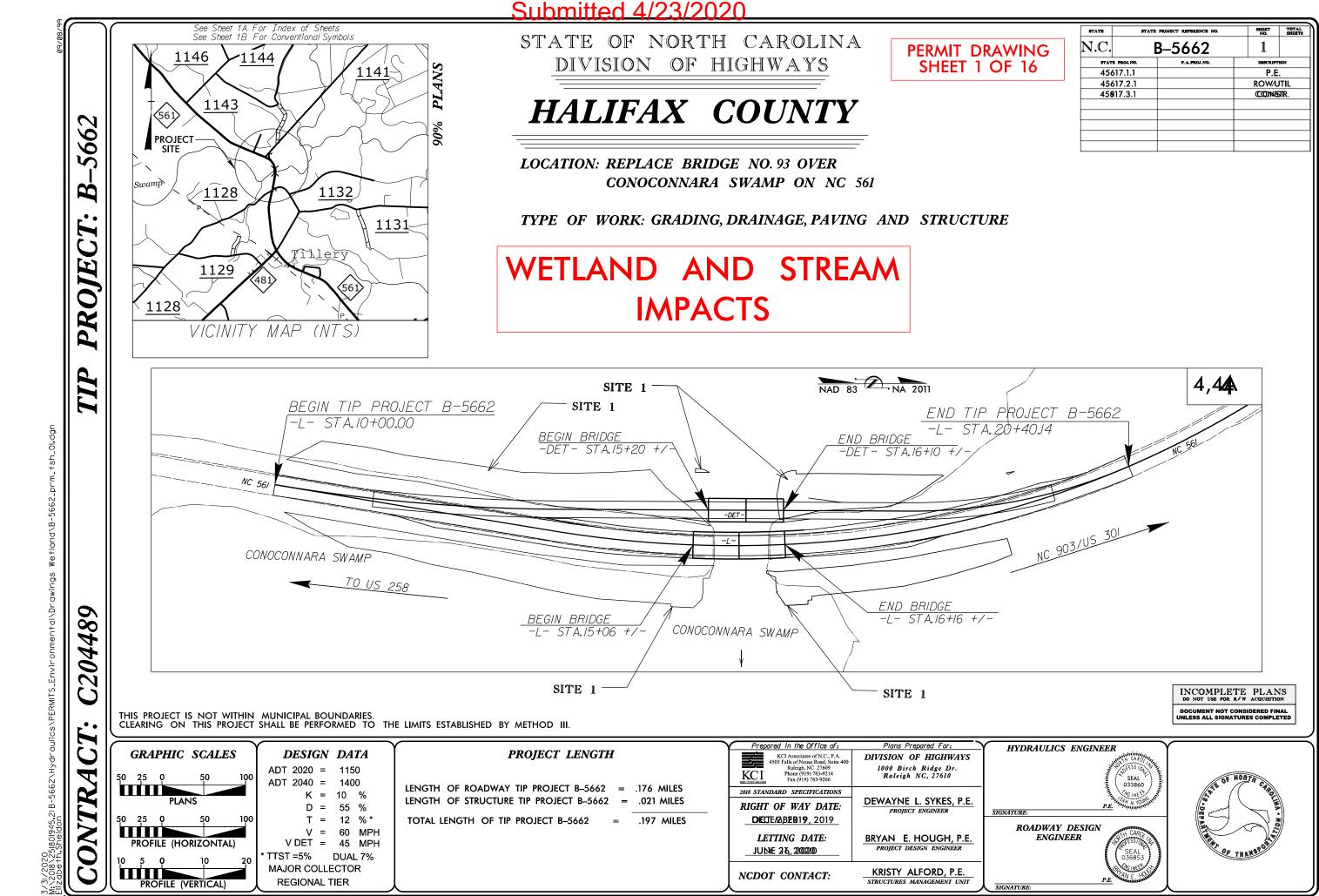


North Carolina Department of Environmental Quality | Division of Mitigation Services 217 W. Jones Street | 1652 Mail Service Center | Raleigh, North Carolina 27699-1652 919.707.8976

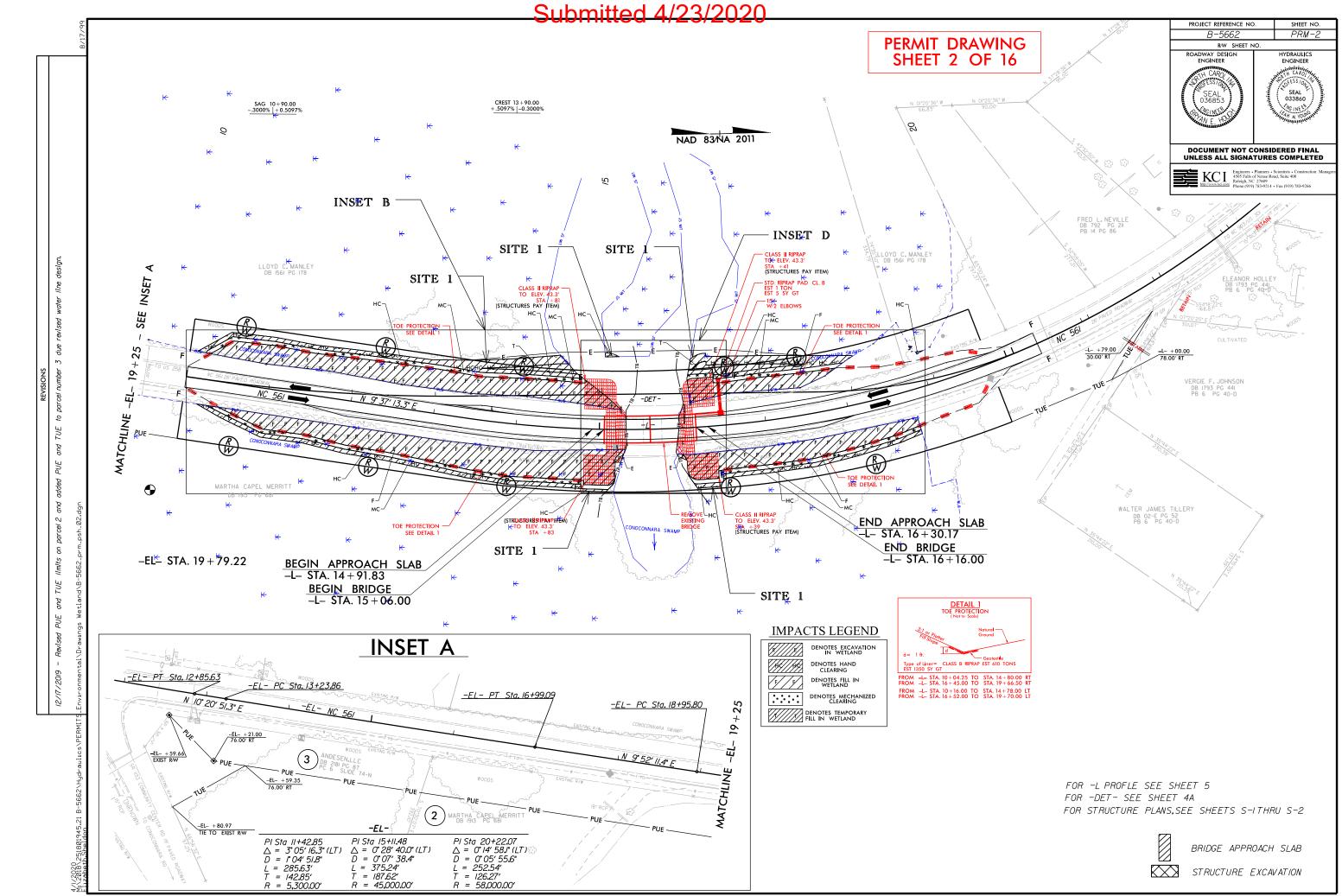
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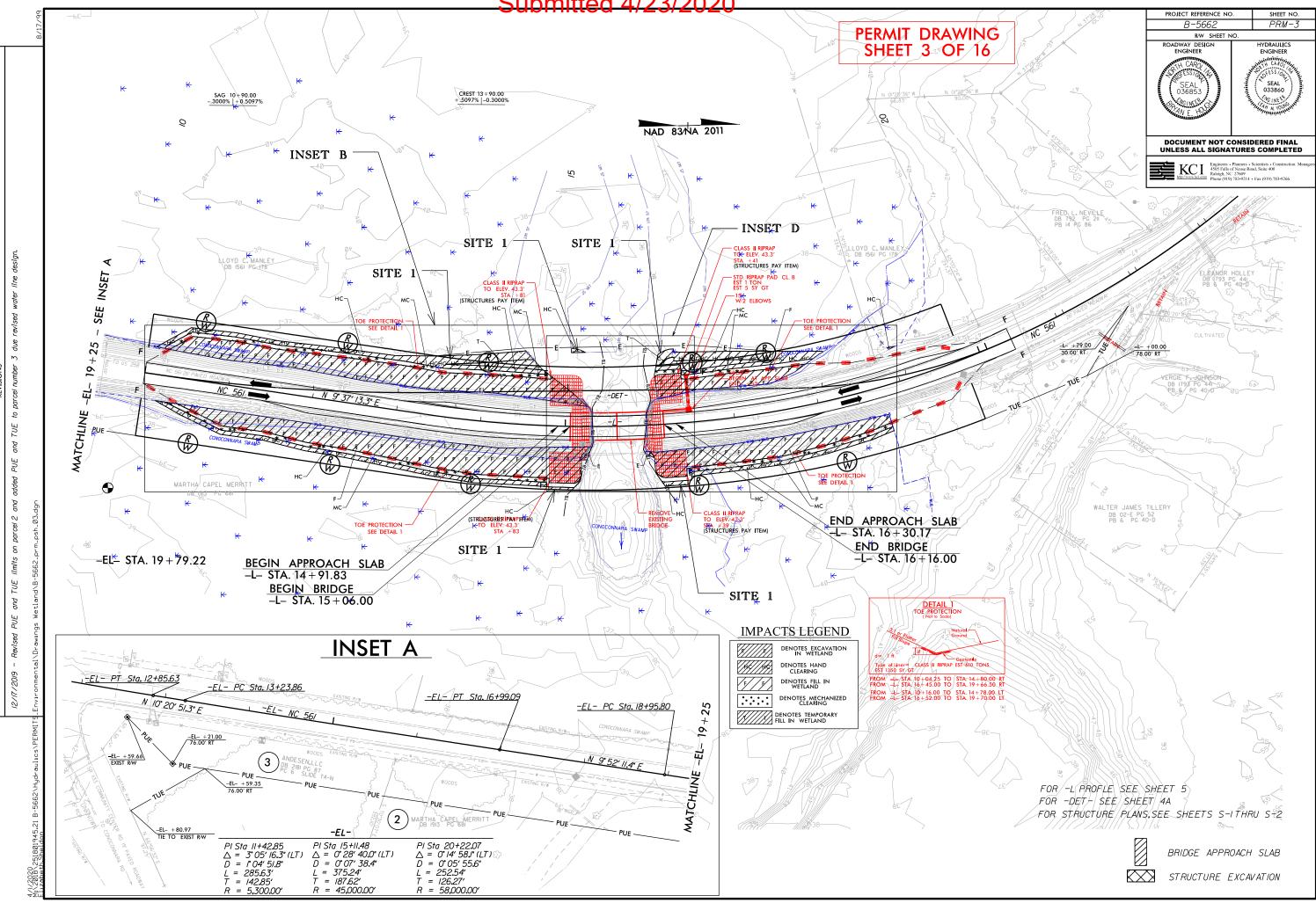
NCDOT									
Highway – – –			North Care	olina Departm	ent of Transportatio	on			
Stormwater				ghway Stormw	ater Program				
Version 2.07; Released October 2016)			STOR	FOR NCDOT I					
<b>WBS Element:</b> 45617.1.1	TIP No.:	B-5662		County(ies):					Pag
			Ge	eneral Project					
WBS Element:	45617.1.1		TIP Number:	B-5662		Project	Type	Bridge Replace	ement
NCDOT Contact:	Tierre Peterson			0002	Contractor / Desig		Leah Young	<u> </u>	
	1000 Birch Ridge	Dr						of Neuse Road	
	Raleigh, NC						Suite 400		
	27610						Raleigh, NC	27609	
Phone	. <mark>(919) 707-6488</mark>					Phone:	(919) 783-9		
	trpeterson@ncdot.	aov			1		Leah.Young		
City/Town:			one		County(ies):	Hali			
River Basin(s):	Roand				CAMA County?	N			
Wetlands within Project Limits?	Yes				,	1	-		
·				Project Des	cription				
Project Length (lin. miles or feet):	0.20	)	Surrounding L		Wetlands/Rural Re	sidential/Agric	ultural		
			Proposed Project					Exis	ting Site
Project Built-Upon Area (ac.)		0.7		ac.			0.6		ac.
Typical Cross Section Description:	12' TRAVEL LANE		VED SHOULDER A		25' OUT TO OUT	APPROXIMA		VEL LANES WI	
Annual Avg Daily Traffic (veh/hr/day): General Project Narrative: (Description of Minimization of Water Quality Impacts)	travel lanes with a bridge, end bents, There are wetlands roadway fill results	blace Halifax C 4' paved should caps, and asso s present over t in 0.73 acres c	der. The proposed b ociated roadway fill w the extent of the proj	and its approad ridge will have vill not result in ect. The remov 01 acres in exc	2040 thes. The proposed 1.5:1 sloping riprap a any jurisdictional stru- val of the existing stru- avation in wetlands,	abutments and eam or similar ucture, excava	110' long wi 4' caps at th environment tion under th	ne end bents. P al impacts. The e bridge, placer	lacement and re will be no p ment of riprap
	The proposed bride	ge does not rec	quire deck drains. Th	e runoff from tl	es of hand clearing i ne bridge discharges , roadway runoff is tr	n wetlands due through a pipe	e to the cons e/inlet syster	n in the northwe	letour bridge. est quadrant c
Surface Water Body (1):	The proposed bridg	ge does not rec m at non-erosiv	quire deck drains. Th	e runoff from tl	ne bridge discharges , roadway runoff is tr ormation	n wetlands due through a pipe eated via vege	e to the cons e/inlet syster	n in the northwe	letour bridge. est quadrant o I existing veg
Surface Water Body (1):	The proposed bridg jurisdictional stream the stream.	ge does not rec m at non-erosiv	quire deck drains. Th re velocities. In all br	e runoff from tl idge quadrants Waterbody Inf	ormation	n wetlands due through a pipe eated via vege	e to the cons e/inlet syster	n in the northwe	letour bridge. est quadrant o I existing veg
Surface Water Body (1): NCDWR Surface Water Classification fo	The proposed bridg jurisdictional stream the stream.	ge does not rec m at non-erosiv	quire deck drains. Th	Waterbody Inf ation:	ne bridge discharges , roadway runoff is tr ormation	n wetlands due through a pipe eated via vege adex No.:	e to the cons e/inlet syster	n in the northwe	letour bridge. est quadrant o I existing veg
NCDWR Surface Water Classification for	The proposed bridg jurisdictional stream the stream.	ge does not rec m at non-erosiv	quire deck drains. The velocities. In all break of the second sec	Waterbody Inf ation:	ormation NCDWR Stream Ir Class	n wetlands due through a pipe eated via vege adex No.:	e to the cons e/inlet syster	n in the northwe	letour bridge. est quadrant o I existing veg
NCDWR Surface Water Classification for Other Stream Classification:	The proposed bridg jurisdictional stream the stream.	ge does not rec m at non-erosiv CONOCONN	quire deck drains. The velocities. In all break of the second sec	Waterbody Inf ation:	ormation NCDWR Stream Ir Class	n wetlands due through a pipe eated via vege adex No.:	e to the cons e/inlet syster	n in the northwe	letour bridge. est quadrant o I existing veg
NCDWR Surface Water Classification for Other Stream Classification: mpairments:	The proposed bridg jurisdictional stream the stream.	ge does not rec m at non-erosiv CONOCONN	Auire deck drains. The velocities. In all bread of the second sec	Waterbody Inf ation:	ormation NCDWR Stream Ir Class	n wetlands due through a pipe eated via vege adex No.:	e to the cons e/inlet syster	n in the northwe	letour bridge. est quadrant o I existing veg
NCDWR Surface Water Classification for Other Stream Classification: Impairments: Aquatic T&E Species?	The proposed bridg jurisdictional stream the stream.	ge does not reo m at non-erosiv CONOCONN e e	Auire deck drains. The velocities. In all bread of the second sec	Waterbody Inf ation:	ormation NCDWR Stream Ir Class	n wetlands due through a pipe eated via vege adex No.:	e to the cons e/inlet system etated roadwa	n in the northwe	letour bridge. est quadrant c
	The proposed bridg jurisdictional stream the stream.	ge does not reo m at non-erosiv CONOCONN e e	Auire deck drains. The velocities. In all bread of the second sec	Waterbody Inf ation: Issification:	ormation NCDWR Stream Ir Class None	n wetlands due through a pipe eated via vege adex No.:	e to the cons e/inlet system etated roadwa	n in the northwe	letour bridge. est quadrant of d existing vege 23-33
NCDWR Surface Water Classification fo Other Stream Classification: Impairments: Aquatic T&E Species? NRTR Stream ID:	The proposed bridg jurisdictional stream the stream.	ge does not reo m at non-erosiv CONOCONN e e e Comments	Average of the second s	Waterbody Inf ation: assification: harge Over Bu	ormation NCDWR Stream Ir Class None	n wetlands due through a pipe eated via vege dex No.: C	e to the cons e/inlet system atated roadwa bately roadwa roadwa roadwa roadwa roadwa roadwa roadwa r	n in the northwe ay shoulder and es in Effect: Pads Provideo escribe in the C	letour bridge. est quadrant of a existing vege 23-33

	AND THE REAL PROPERTY OF THE R
age 1	of 1
Date:	2/27/2020
Date.	3/27/2020
D SHOULDER	
Year:	2020
32'. This structure d construction of t permanent chanr p for bank stabiliz- ng will be limited to s. STORMWATER of the project outs getated swales pri	provides 2'-12' he proposed nel changes. ation, and o 5' off roadway c CONTROLS: side of the
1	N/A
	N/A
ect Narrative; if no, Narrative)	, justify in the

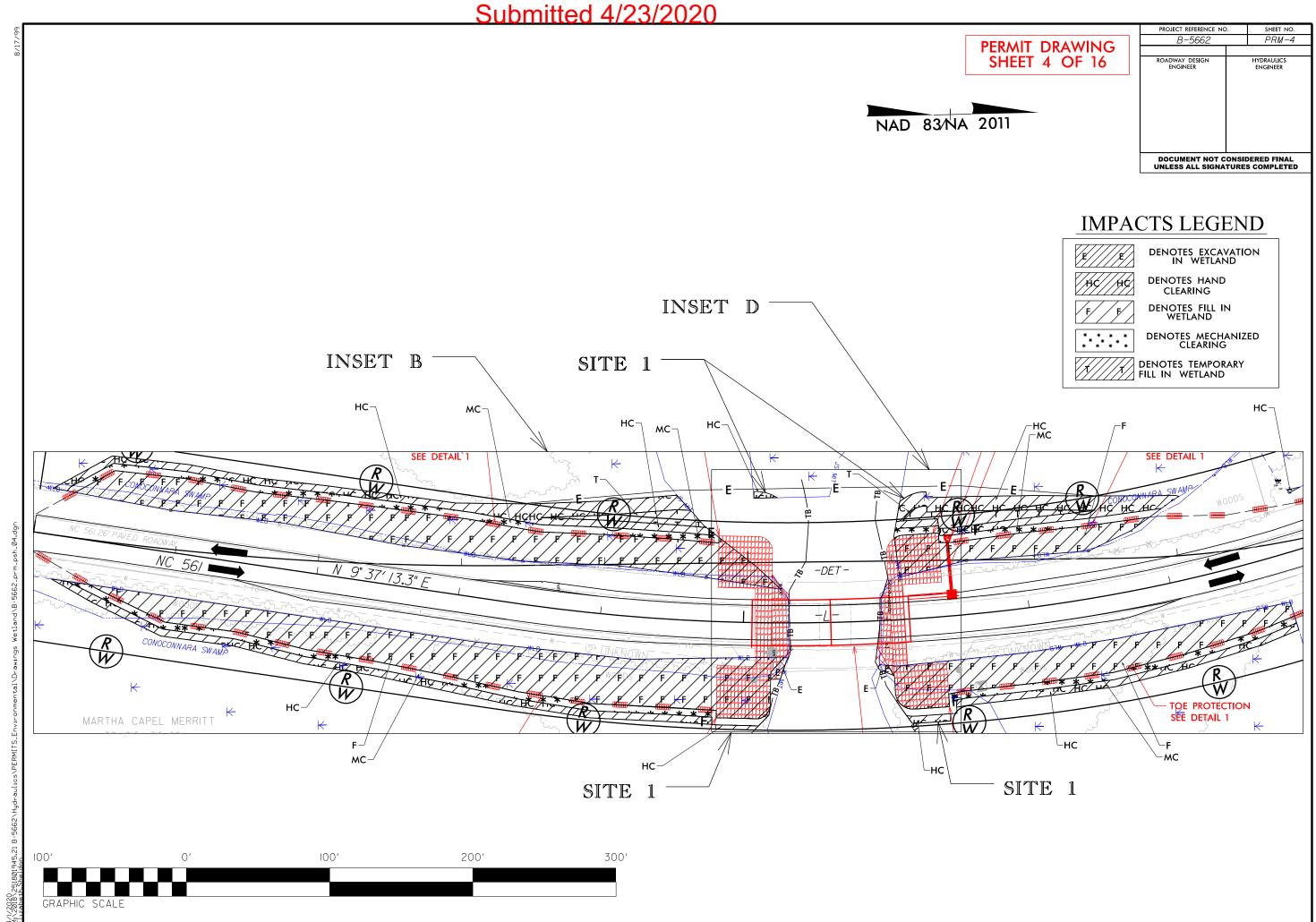


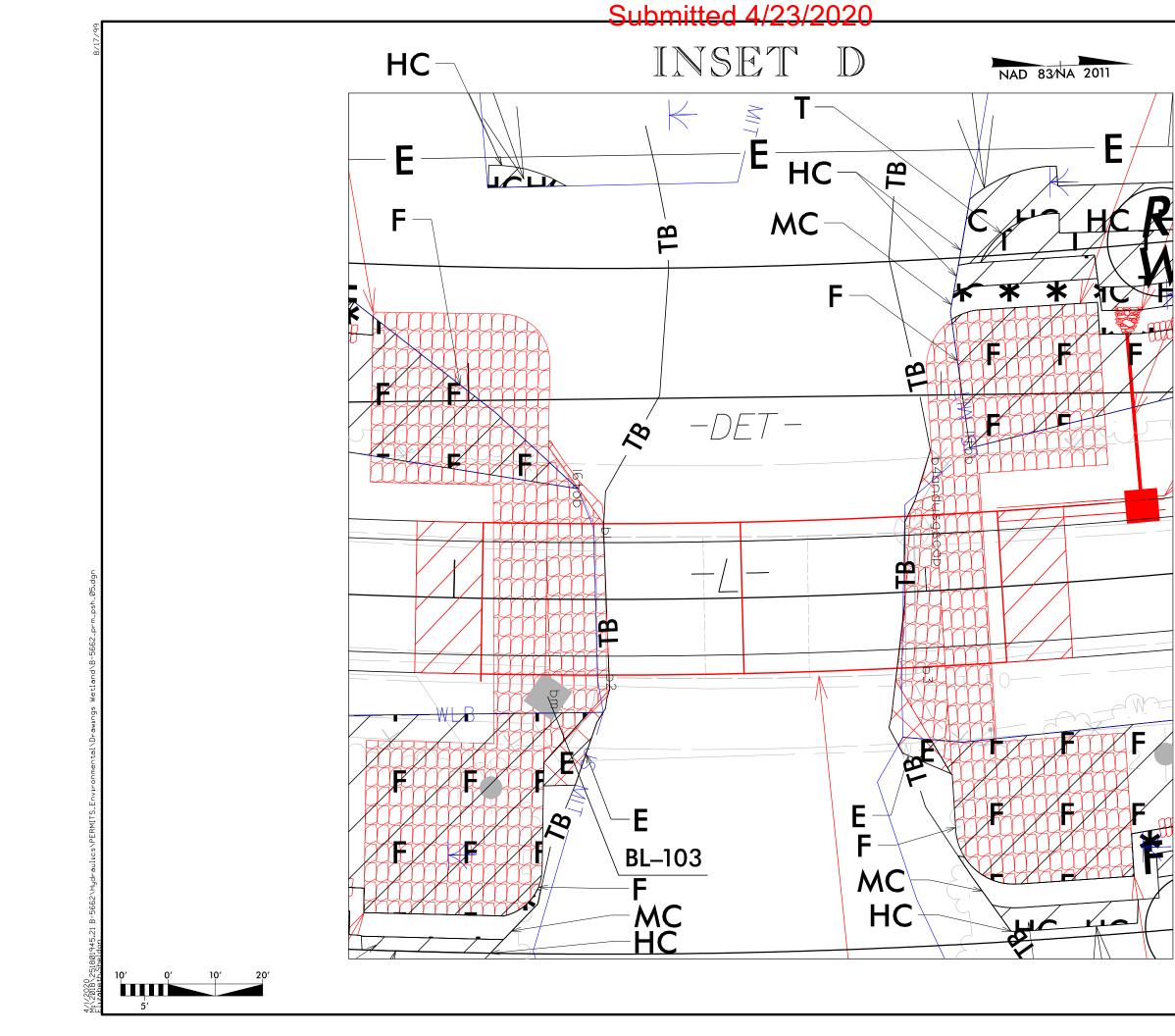
STATE	STATE		SHEET NO.	TOTAL SHEETS	
N.C.	I	1			
STAT	E PROJ.NO.	F. A. PROJ. NO.		DESCRIPT	ION
450	617.1.1		P.E.		
450	517.2.1		ROW/UTIL		ITIL
458	5917.3.1			COME	JTR.



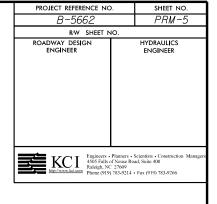














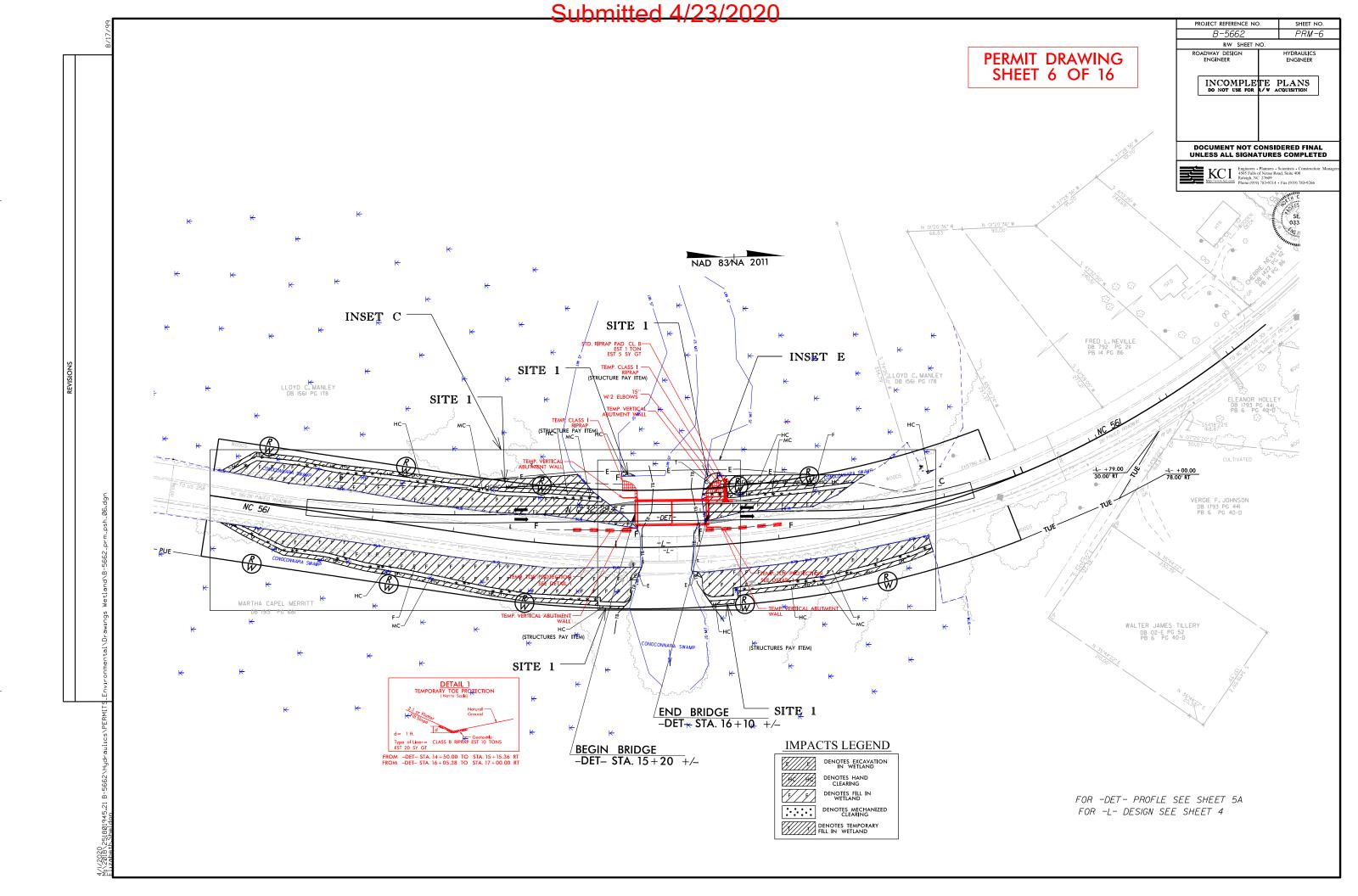


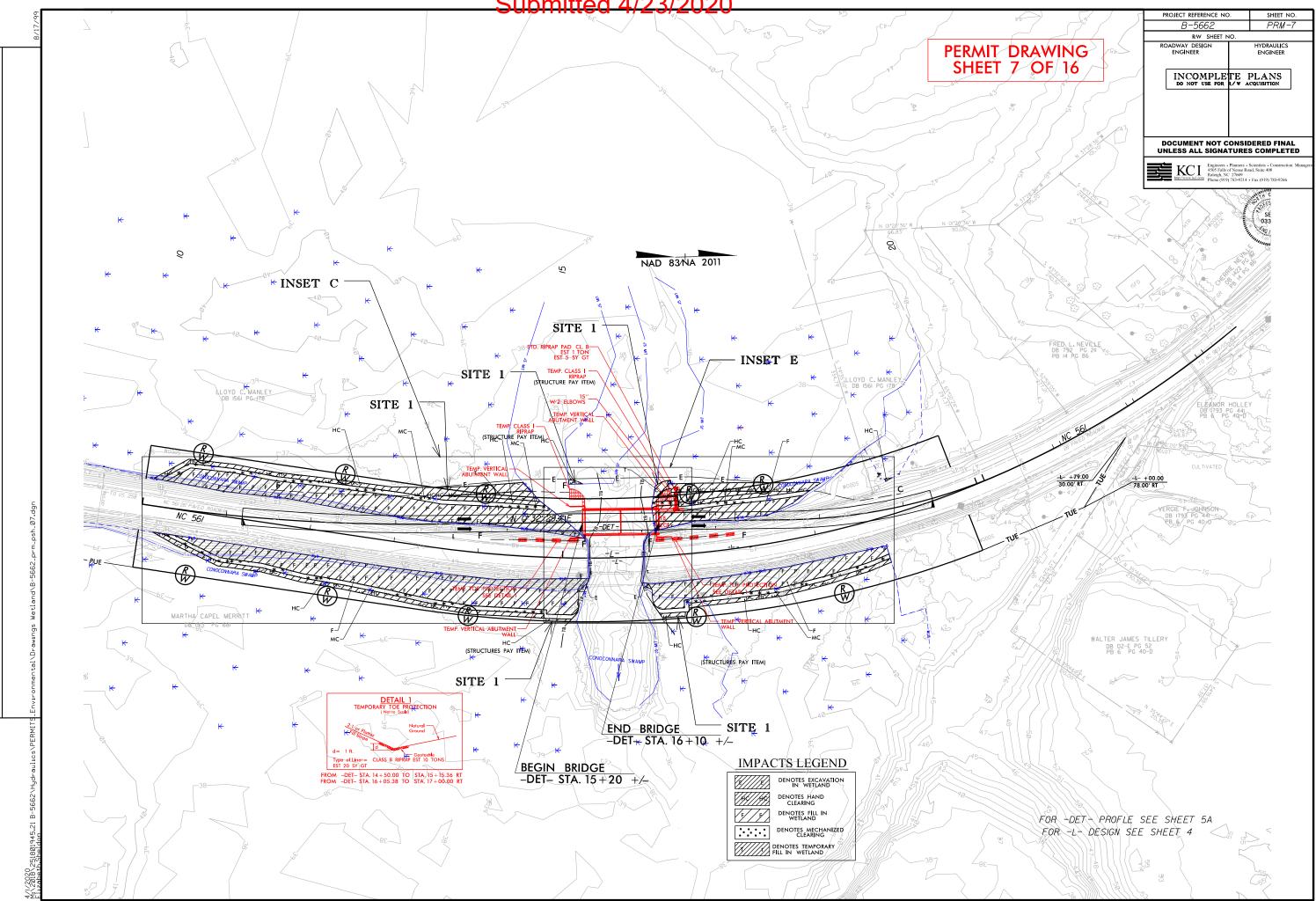
DENOTES HAND CLEARING denotes fill in Wetland

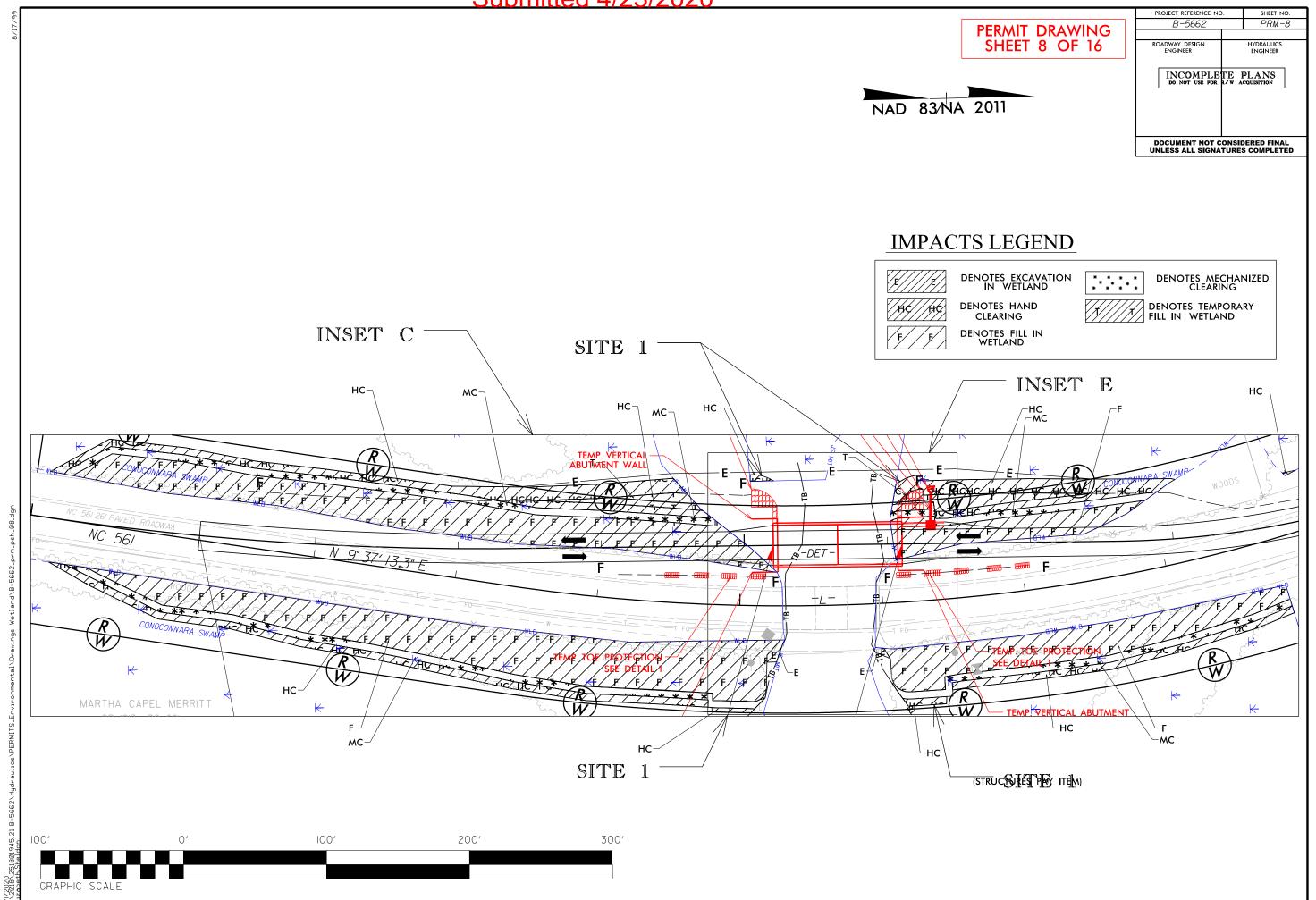


DENOTES EXCAVATION IN WETLAND

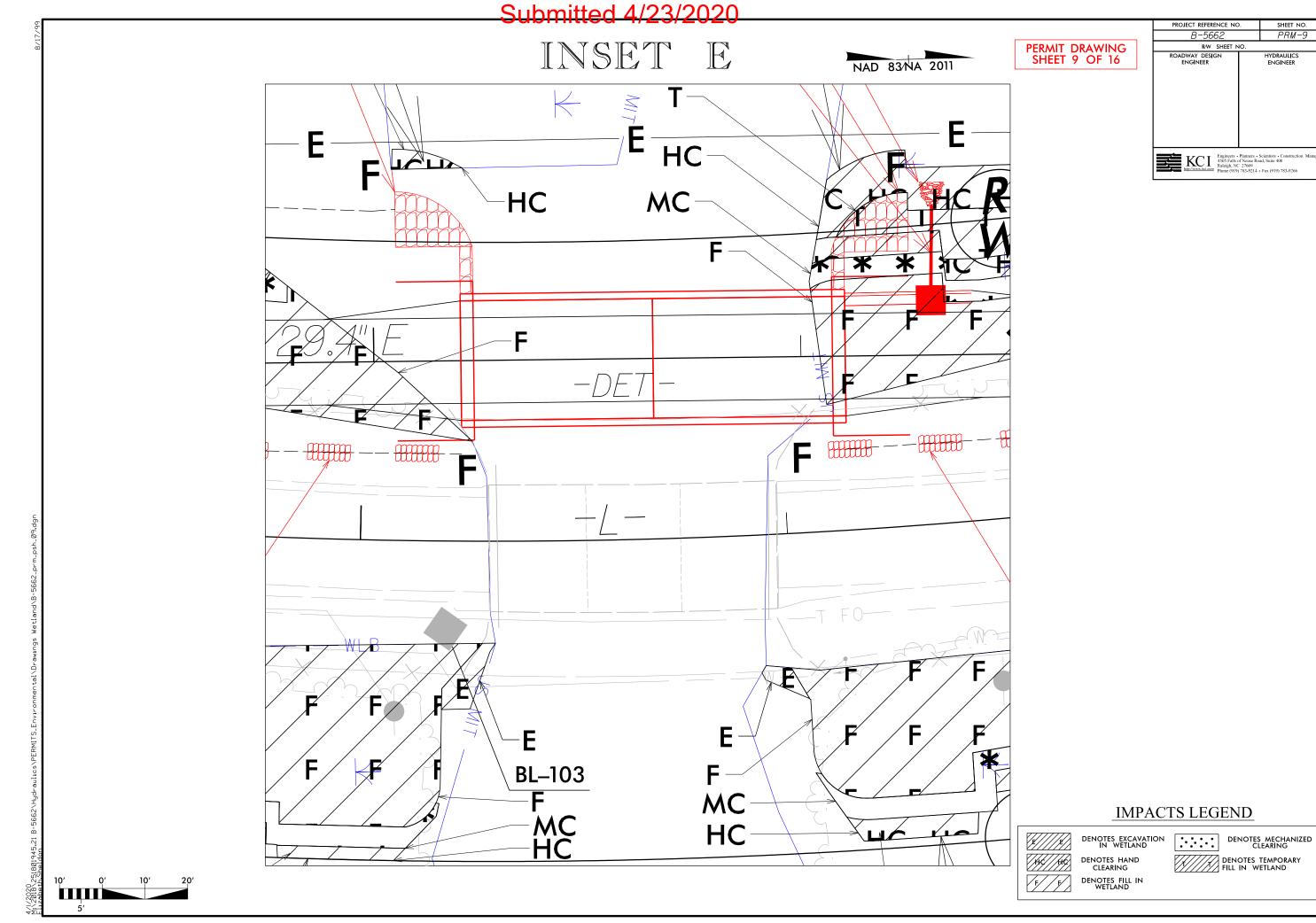
DENOTES TEMPORARY FILL IN WETLAND





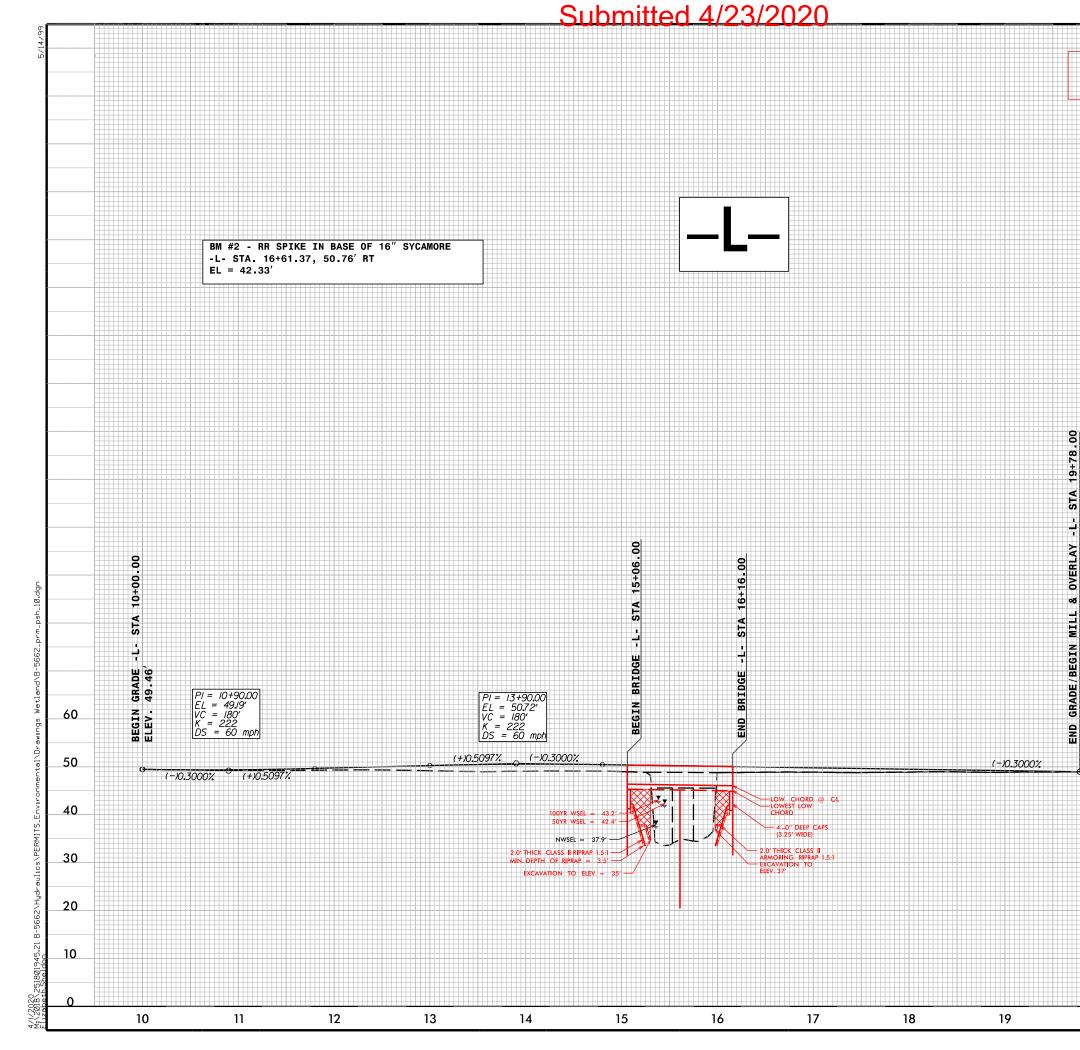


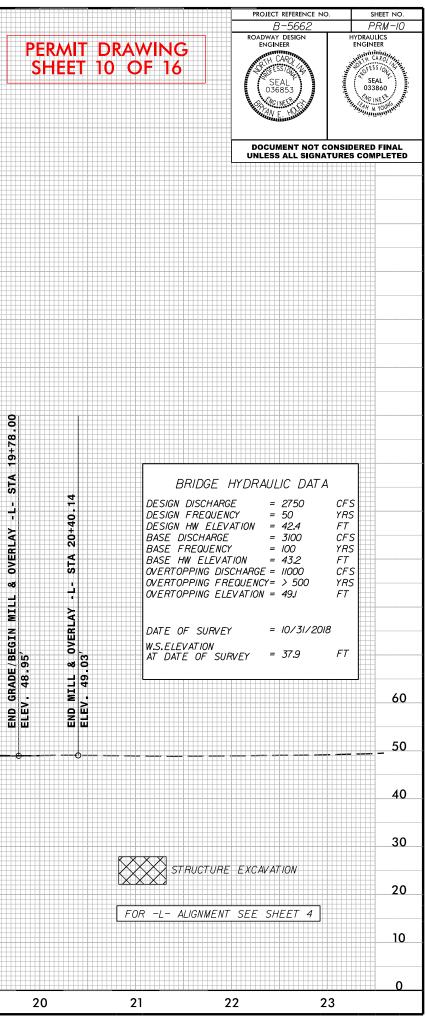
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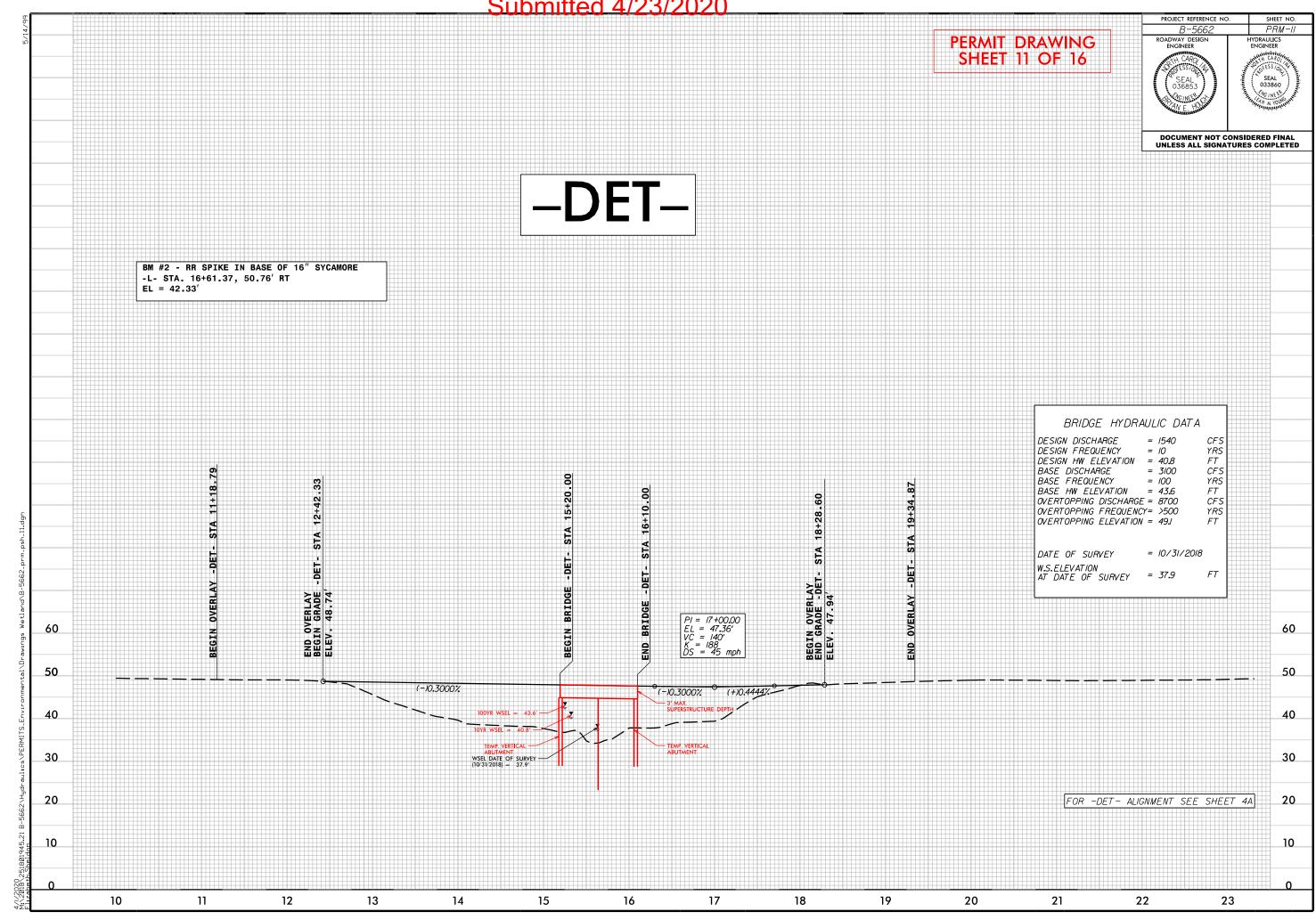


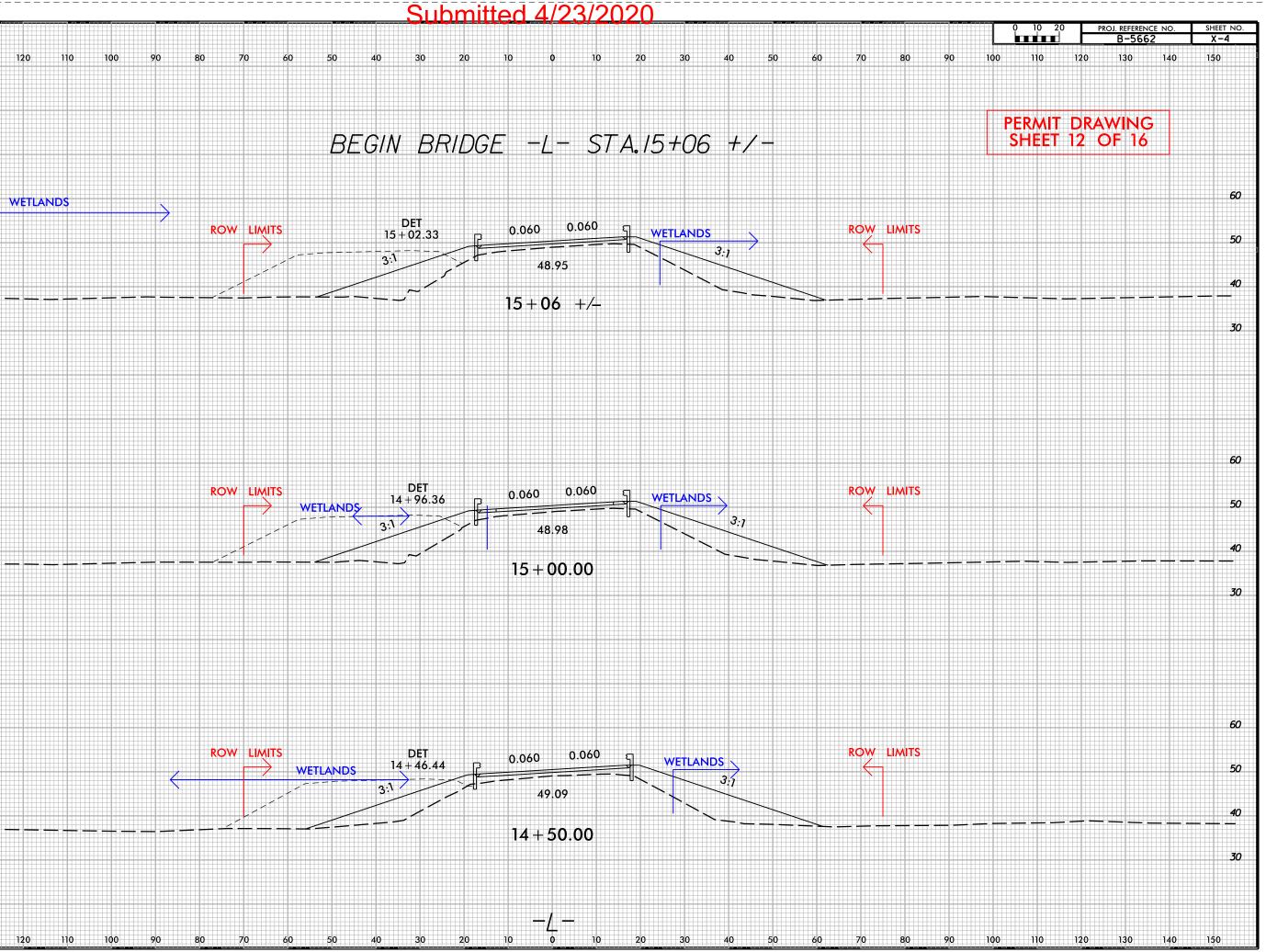
sheet no. PRM-9

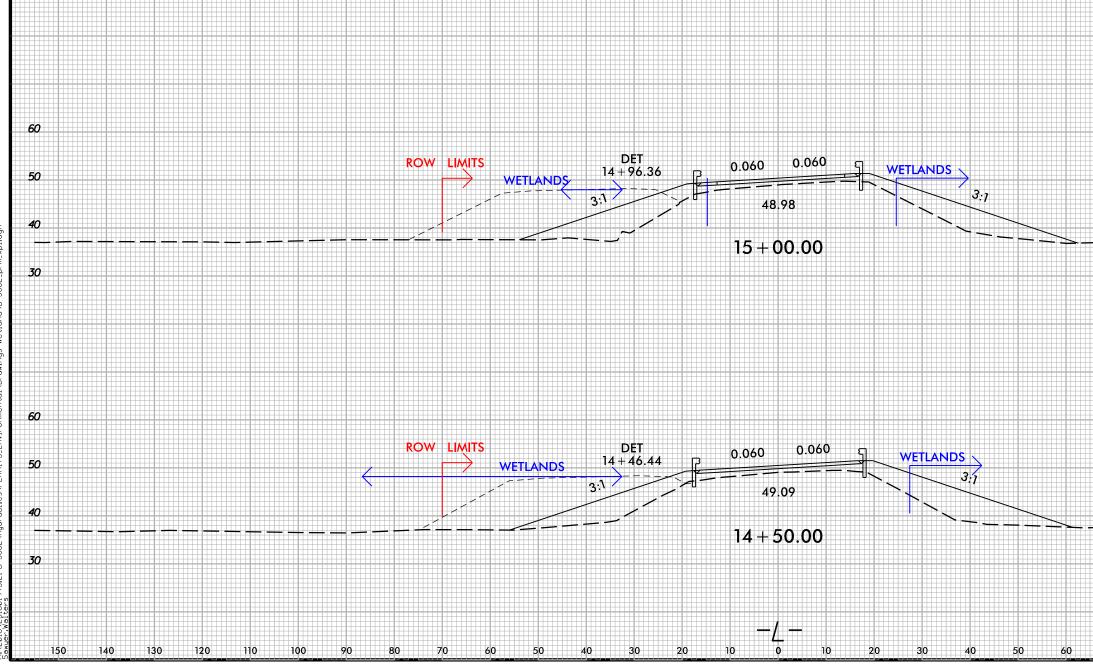
HYDRAULICS ENGINEER

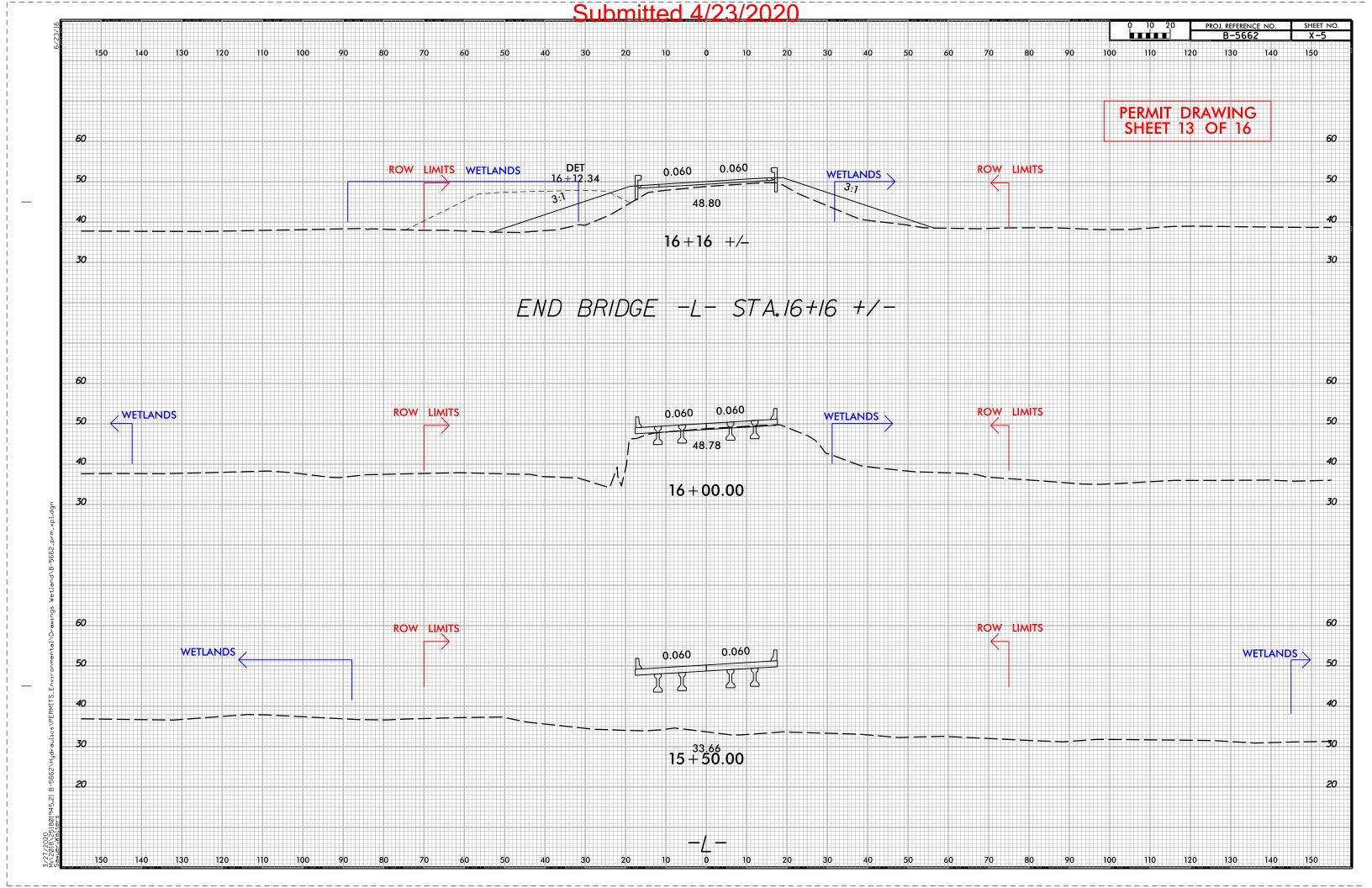


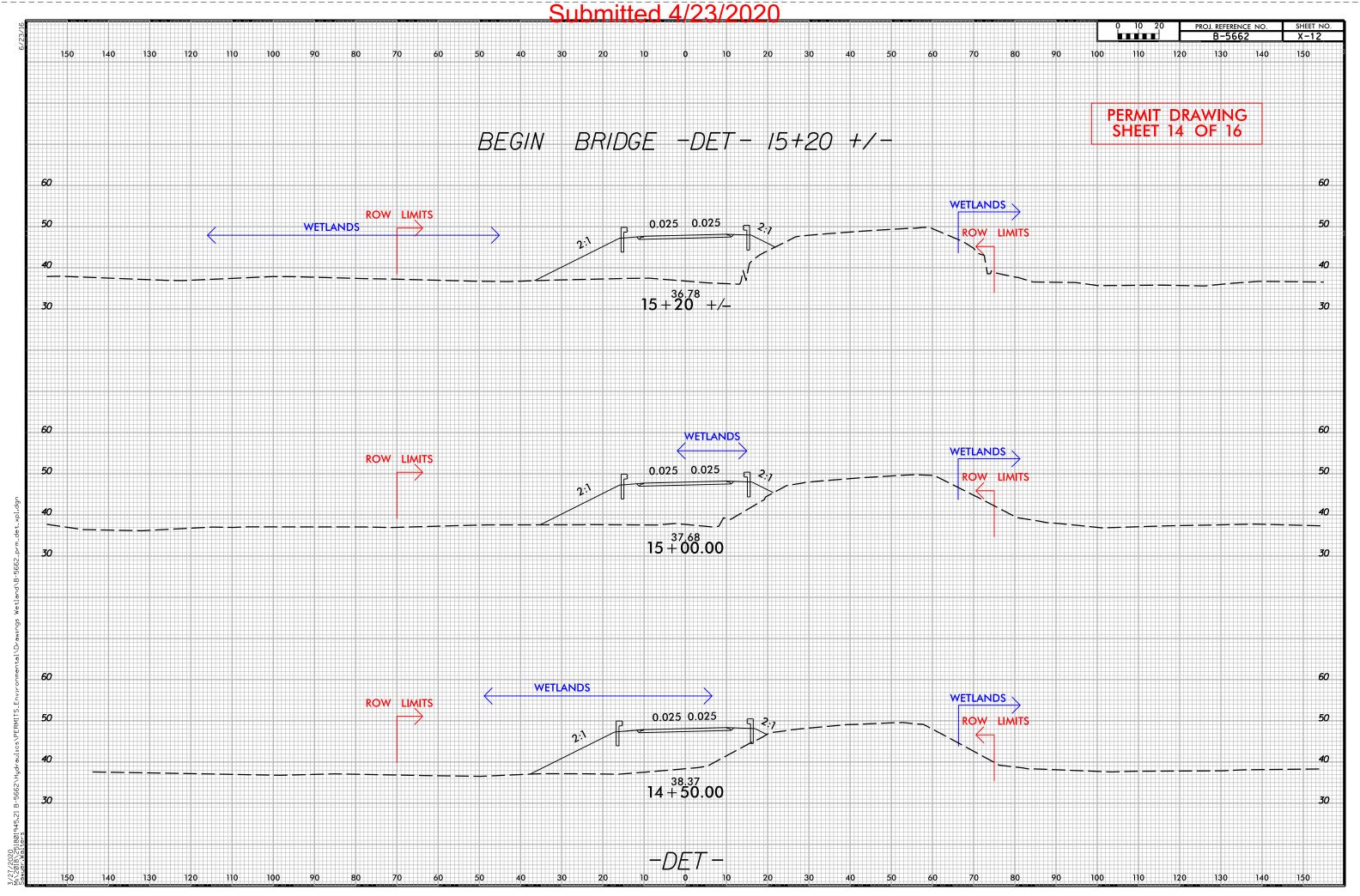


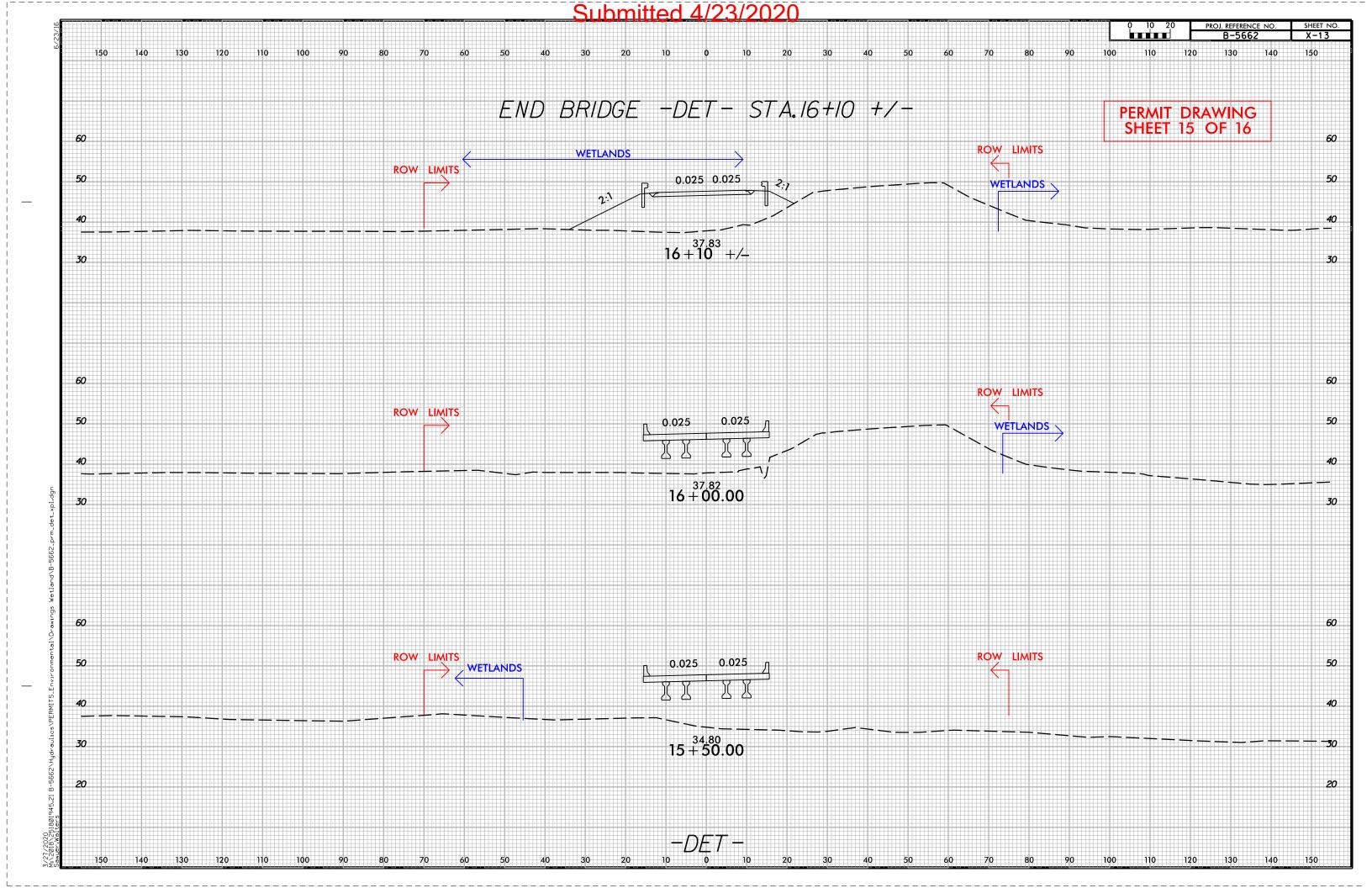












						JRACE WAT	ER IMPAC	TS SUMM				
		WETLAND IMPACTS					SURFACE WATER IMPACTS					
Site No.	Station (From/To)	Structure Size / Type	Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	in	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
1	-L- STA 10+25 TO	FILL FOR ROADWAY	0.526						<b>\</b> /			
	-L- STA 15+29 CL		0.020									1
1	-L- STA 15+99 TO	FILL FOR ROADWAY	0.206									
	-L- STA 18+77 CL											
	-L- STA 15+19 TO	EXCAVATION UNDER			0.002							+
	-L- STA 15+32 CL	PROPOSED BRIDGE										
1	-L- STA 15+93 TO	EXCAVATION UNDER			0.001							
	-L- STA 16+03 CL	PROPOSED BRIDGE										
1	-L- STA 13+50 TO	TEMPORARY DETOUR		0.014								
	-L- STA 14+72 LT											
1	-L- STA 16+14 TO	TEMPORARY DETOUR		0.020								
	-L- STA 17+57 LT											_
1	-L- STA 10+19 TO	MECHANIZED CLEARING				0.109						+
	-L- STA 15+19 CL	FOR FILL IN WETLANDS										
1	-L- STA 16+08 TO	MECHANIZED CLEARING				0.055						
	-L- STA 18+77 CL	FOR FILL IN WETLANDS										_
1	-L- STA 10+09 TO	TEMPORARY DETOUR					0.140					+
	-L- STA 15+23 CL											1
1	-L- STA 16+09 TO	TEMPORARY DETOUR					0.087					1
	-L- STA 18+77 CL											
OTALS*	<u> </u>		0.732	0.033	0.003	0.164	0.227	0.000	0.000	0	0	0

\*Rounded totals are sum of actual impacts NOTES:

NC DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS 4/23/2020 HALIFAX B-5662

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45617.1.1 SHEET 16 OF

Revised 2018 Feb