



Pre-Construction Notification (PCN) Form

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

April 13, 2022 Ver 4.3

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

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

Below is a link to the online help file.

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

A. Processing Information



Pre-Filing Meeting Date Request was submitted on: *

4/20/2022

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

Is this project connected with ARPA funding? *

Yes No

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

Sampson

Is this a NCDMS Project? *

Yes No

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

DON'T CHECK YES, UNLESS YOU ARE DMS 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:

BR-0046

WBS # *

67046.1.1

(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)

Has this PCN previously been submitted? *

Yes
 No

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

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

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

Yes No

Regional General Permit (RGP) Number:

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

RGP Numbers (for multiple RGPs):

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

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

check all that apply

- 401 Water Quality Certification - Regular
- Non-404 Jurisdictional General Permit
- Individual 401 Water Quality Certification
- 401 Water Quality Certification - Express
- Riparian Buffer Authorization

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

*

For the record only for DWR 401 Certification: Yes No

For the record only for Corps Permit: Yes No

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

Yes No

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

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

Yes No

Acceptance Letter Attachment

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

DMS Accept_BR-0046.pdf 229.01KB

FILE TYPE MUST BE PDF

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

Yes No

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

Yes No

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

B. Applicant Information



1a. Who is the Primary Contact? *

Deanna Riffey

1c. Primary Contact Phone: *

(xxx)xxx-xxxx

(919)707-6151

1b. Primary Contact Email: *

driffey@ncdot.gov

1d. Who is applying for the permit? *

- Owner
 - Applicant (other than owner)
- (Check all that apply)

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

Yes No

2. Owner Information

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

NCDOT

2b. Deed book and page no.:

2c. Contact Person:

(for Corporations)

2d. Address *

Street Address

1598 Mail Service Center

Address Line 2

City

Raleigh

Postal / Zip Code

27699-1598

State / Province / Region

NC

Country

USA

2e. Telephone Number: *

(xxx)xxx-xxxx

(919)707-6151

2f. Fax Number:

(xxx)xxx-xxxx

2g. Email Address: *

jdilday@ncdot.gov

3. Applicant Information (if different from owner)

3a. Name: *

Deanna Riffey

3b. Business Name:

(if applicable)

3c. Address *

Street Address

1598 Mail Service Center

Address Line 2

City

Raleigh

Postal / Zip Code

27699-1598

State / Province / Region

NC

Country

USA

3d. Telephone Number: *

(919)707-6151

(xxx)xxx-xxxx

3e. Fax Number:

(xxx)xxx-xxxx

3f. Email Address: *

driffey@ncdot.gov

C. Project Information and Prior Project History

1. Project Information

1a. Name of project: *

Bridge 22 on US 701 over Bill's Swamp (BR-0046 - Central)

1b. Subdivision name:

(if appropriate)

1c. Nearest municipality / town: *

Garland

2. Project Identification

2a. Property Identification Number:

(tax PIN or parcel ID)

2b. Property size:

(in acres)

2c. Project Address

Street Address

Address Line 2

City

Postal / Zip Code

State / Province / Region

Country

2d. Site coordinates in decimal degrees

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

Latitude: *

34.814727

ex: 34.208504

Longitude: *

-78.365336

-77.796371

3. Surface Waters

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

Great Coharie Creek

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

C; SW

Surface Water Lookup

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

Cape Fear

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

030300060408

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: *

Project No BR-0046 proposes to replace Bridge No. 22 on US 701 over Bill's Swamp in Sampson County. Bridge No. 22 was constructed in 1954. The existing bridge is a 6 span bridge approximately 121 feet long and 30 feet wide.

Land use in the project study area is a mainly undeveloped natural areas and a few patches of farmland. The project study area is rural and predominantly undeveloped with several wetlands.

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

Yes No Unknown

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

4.16

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

(intermittent and perennial)

905

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

The purpose of the proposed project is to replace a bridge that is structurally deficient and nearing the end of its useful live. As the bridges age, the cost of repairs and continued maintenance necessitates the need for replacement.

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

The proposed bridge will be a 3 span bridge approximately 160 feet long and 40 feet wide (two 12 foot travel lanes with 8 foot shoulders). The proposed bridge will be placed on existing alignment while detouring traffic to a temporary detour bridge north of the existing bridge.

A temporary bridge will be built to the north of the existing, traffic shifted, and then the existing bridge removed and replaced with a new bridge.

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

5. Jurisdictional Determinations

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

Yes No Unknown

Comments:

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

Preliminary Approved Not Verified Unknown N/A

Corps AID Number:

Example: SAW-2017-99999

SAW-2018-01609

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

Name (if known): Gordon Cashin/ Brett Feulner

Agency/Consultant Company: NCDOT/ Dewberry

Other:

5d. List the dates of the Corp jurisdiction determination or State determination if a determination was made by the Corps or DWR.

A preliminary site visit was made during a scoping meeting by Brad Shaver and Gordon Cashin on 9/14/18 and discussions of a couple of changes for the PJD. No determination was made at that time. PJD package is included with this application.

6. Future Project Plans

6a. Is this a phased project? *

Yes No

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

N/A

D. Proposed Impacts Inventory



1. Impacts Summary

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

Wetlands Streams-tributaries Buffers
 Open Waters Pond Construction

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*	2e. Forested*	2f. Type of Jurisdiction* (?)	2g. Impact area* (acres)
1	Fill	P	Riverine Swamp Forest	WA	Yes	Both	0.040 (acres)
1	Excavation	P	Riverine Swamp Forest	WA	Yes	Both	0.100 (acres)
1	Mechanized Clearing	P	Riverine Swamp Forest	WA	Yes	Both	0.050 (acres)
2	Fill - Detour	P	Riverine Swamp Forest	WA	Yes	Both	0.010 (acres)
2	Fill - Detour	T	Riverine Swamp Forest	WA	Yes	Both	0.030 (acres)

2g. Total Temporary Wetland Impact

0.030

2g. Total Permanent Wetland Impact

0.200

2g. Total Wetland Impact

0.230

2i. Comments:

There will be 0.33 acres of hand clearing at Site 1 for the bridge and at 0.19 acres of hand clearing for the detour bridge at Sites 1 and 2. There will also be <0.01 acres of temporary fill for erosion control measures in the hand clearing area.

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: *

NCDOT evaluated the usage of sheet piling for this project. It was determined that sheet piling would destabilize the streambank. The existing trees and possible root mats would have to be removed in order to install the sheet piles. The sheet piles would also be close to edge of the detour temporary pavement, which is a driver safety issue. Coordination with USACE led to an agreement that sheet piles would be impractical for safety and impact reasons.

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

Usage of grass shoulders to promote sheet flow and infiltration. Storm drain outlets will be directed to a rip rap pads. The ditch north of bridge will be lined with rip rap to prevent erosion. Elimination of three interior bents with the proposed bridge build. 3:1 side slopes will be used.

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

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

Yes No

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

DWR Corps

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

Mitigation bank Payment to in-lieu fee program Permittee Responsible Mitigation

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

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

Yes No

4b. Stream mitigation requested:

(linear feet)

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

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

4d. Buffer mitigation requested (DWR only):

(square feet)

4e. Riparian wetland mitigation requested:

(acres)

0.20

4f. Non-riparian wetland mitigation requested:

(acres)

4g. Coastal (tidal) wetland mitigation requested:

(acres)

4h. Comments

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

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

Yes No

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

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

1. Diffuse Flow Plan

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

Yes No

For a list of options to meet the diffuse flow requirements, click [here](#).

If no, explain why:

2. Stormwater Management Plan

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

Yes No

Comments:

G. Supplementary Information

1. Environmental Documentation

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

Yes No

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

Yes No

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

Yes No

2. Violations (DWR Requirement)

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

Yes No

3. Cumulative Impacts (DWR Requirement)

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

Yes No

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

Due to minimal transportation impact resulting from the bridge replacement, this project will neither influence nearby land uses nor stimulate growth.

4. Sewage Disposal (DWR Requirement)

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

Yes No N/A

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

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

Yes No

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

Yes No

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

Raleigh

5d. Is another Federal agency involved? *

Yes No Unknown

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

Yes No

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

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

6. Essential Fish Habitat (Corps Requirement)

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

Yes No

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

NOAA EFH Mapper on 4/4/2023.

7. Historic or Prehistoric Cultural Resources (Corps Requirement)

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

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

Yes No

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

NCDOT Historic Architecture and Landscapes No Survey Required Forms 4/2018, NCDOT No Archeological Survey Form (3/2019). Tribal correspondence was sent out to the Coharie and Tuscarora Indian Nations on April 11, 2023 and the Catawba Indian Nation on April 21, 2023. Response from the Coharie Tribe was received on April 18, 2023 that requested to be notified if any human remains or artifacts were discovered. No response has been received from the other two tribes to date.

8. Flood Zone Designation (Corps Requirement)

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

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

Yes No

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

The bridge areas are located in Zone AE. As such, the low chord of the proposed bridges were designed to be at or higher than the low chord of the existing bridges.

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

FRIS (Flood Risk Information System) for NC and CE document.

Miscellaneous



Comments

Species listed by IPaC with habitat in the study area: The Programmatic Biological Opinion (PBO) will be used for Northern long-eared bat (NLEB) due to project location in Divisions 1-8. The biological conclusion is May Affect, Likely to Adversely Affect for the NLEB. Surveys for the wood stork and bald eagle was last performed on June 7, 2022 due to habitat present. No evidence of wood storks or bald eagles including nests were observed. The project will have No Effect of the bald eagle. The Programmatic Biological Evaluation (PBE) will be used for the wood stork due to lack of nests and wood stork evidence and the project being located in Divisions 1-8. The biological conclusion given to the wood stork is May Affect, Not Likely to Adversely Affect. A survey was last done for pondberry on October 12, 2022 due to habitat present. No pondberry was observed within the study area. The biological conclusion is No Effect for pondberry.

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

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

BR0046_Attachments.pdf

17.54MB

File must be PDF or KMZ

Signature



*

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

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

Full Name: *

Jason L Dilday

Signature*

Jason L Dillard

Date

4/25/2023

SUBMITTAL DATE 4/25/23



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



(Version 3.00; Released August 2021)

WBS Element: 67046.1.1 **TIP/Proj No:** BR-0046 **County(ies):** Sampson **Page** 1 **of** 2

General Project Information

WBS Element:	67046.1.1	TIP Number:	BR-0046	Project Type:	Bridge Replacement	Date:	7/21/2022
NCDOT Contact:	Galen Cail, PE		Contractor / Designer:		David Holmes		
Address:	1000 Birch Ridge Dr. Raleigh, NC 27610		Address:	1000 Birch Ridge Dr. Raleigh, NC 27610			
Phone:	919-707-6710		Phone:	919-707-6715			
Email:	gcail@ncdot.gov		Email:	dkholmes@ncdot.gov			
City/Town:	Ingold		County(ies):	Sampson			
River Basin(s):	Cape Fear		CAMA County?	No			
Wetlands within Project Limits?	Yes						

Project Description

Project Length (lin. miles or feet):	0.133 mi	Surrounding Land Use:	Woods/Swamp
Proposed Project		Existing Site	
Project Built-Upon Area (ac.)	0.6 ac.		0.4 ac.
Typical Cross Section Description:	12' Travel Lanes, 2' Paved Shoulder, 8' Grass Shoulders. 3:1 Side Slopes		12' Travel Lanes, 2' Paved Shoulder
Annual Avg Daily Traffic (veh/hr/day):	Design/Future: 6165	Year: 2043	Existing: 5535 Year: 2023

General Project Narrative:
(Description of Minimization of Water Quality Impacts)

The project consists of replacing Bridge# 22 on US 701 over Great Coharie Creek Overflow. The approach work will consist of providing paved/grass shoulders and guardrail. Bridge #22 serves as an overflow structure to the main crossing inder bridge #31 while. The existing overflow structure is a 6 span (1@20'3", 4@20'0", 1@20'3" - total length 121') reinforced concrete deck on I beams, with reinforced concrete caps on timber piles, and sits at a 90-degree skew. The proposed structure is a 3 span, 36" prestressed concrete girder bridge on reinforced concrete caps (1@50', 1@60", 1@50'), with a total length of 160'. This new bridge will sit at 90-degree skew with 4.0' high end bent caps, 3' wide drilled shaft piles, and 3.5' high concrete bridge barrier rail.

Best Mgmt. Practices:

- Promotion of sheet flow and infiltration with grassed shoulders.
- Storm Drain outlets to a rip rap pad.
- Ditch in N quad is lined with rip rap to prevent erosion.
- Elimination of three interior bents
- No Deck Drains required



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



(Version 3.00; Released August 2021)

WBS Element: 67046.1.1 TIP/Proj No.: BR-0046 County(ies): Sampson Page 2 of 2

General Project Information

Waterbody Information

Surface Water Body (1):	Great Coharie Creek		NCDWR Stream Index No.:	18-68-1-18	
NCDWR Surface Water Classification for Water Body	Primary Classification:		Class C		
	Supplemental Classification:		Swamp Waters (Sw)		
Other Stream Classification:					
Impairments:	None				
Aquatic T&E Species?	No	Comments:			
NRTR Stream ID:					Buffer Rules in Effect:
Project Includes Bridge Spanning Water Body?	Yes	Deck Drains Discharge Over Buffer?	No	Dissipator Pads Provided in Buffer?	No
Deck Drains Discharge Over Water Body?	No	(If yes, provide justification in the General Project Narrative)		(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)	
(If yes, provide justification in the General Project Narrative)					

Surface Water Body (2):			NCDWR Stream Index No.:		
NCDWR Surface Water Classification for Water Body	Primary Classification:				
	Supplemental Classification:				
Other Stream Classification:					
Impairments:					
Aquatic T&E Species?		Comments:			
NRTR Stream ID:					Buffer Rules in Effect:
Project Includes Bridge Spanning Water Body?		Deck Drains Discharge Over Buffer?		Dissipator Pads Provided in Buffer?	
Deck Drains Discharge Over Water Body?		(If yes, provide justification in the General Project Narrative)		(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)	
(If yes, provide justification in the General Project Narrative)					

Surface Water Body (3):			NCDWR Stream Index No.:		
NCDWR Surface Water Classification for Water Body	Primary Classification:				
	Supplemental Classification:				
Other Stream Classification:					
Impairments:					
Aquatic T&E Species?		Comments:			
NRTR Stream ID:					Buffer Rules in Effect:
Project Includes Bridge Spanning Water Body?		Deck Drains Discharge Over Buffer?		Dissipator Pads Provided in Buffer?	
Deck Drains Discharge Over Water Body?		(If yes, provide justification in the General Project Narrative)		(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)	
(If yes, provide justification in the General Project Narrative)					

See Sheet 1A For Index of Sheets
See Sheet 1B For Conventional Symbols

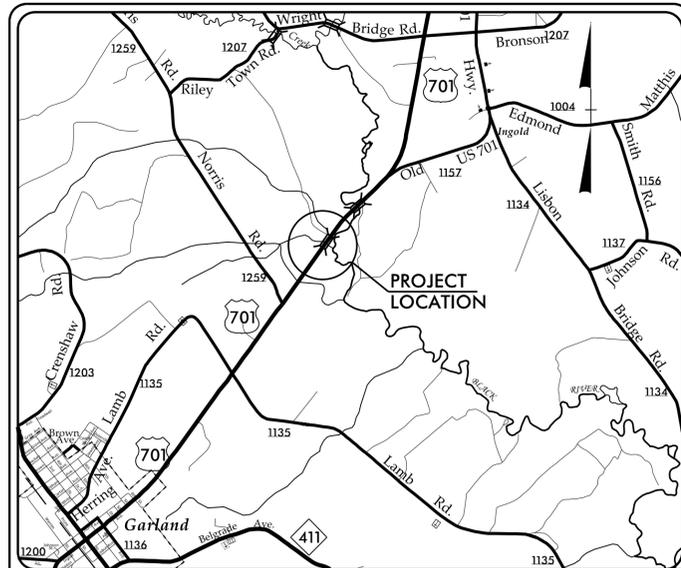
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SAMPSON COUNTY

**LOCATION: BRIDGE 81022 ON US 701 OVER
BILL'S SWAMP**

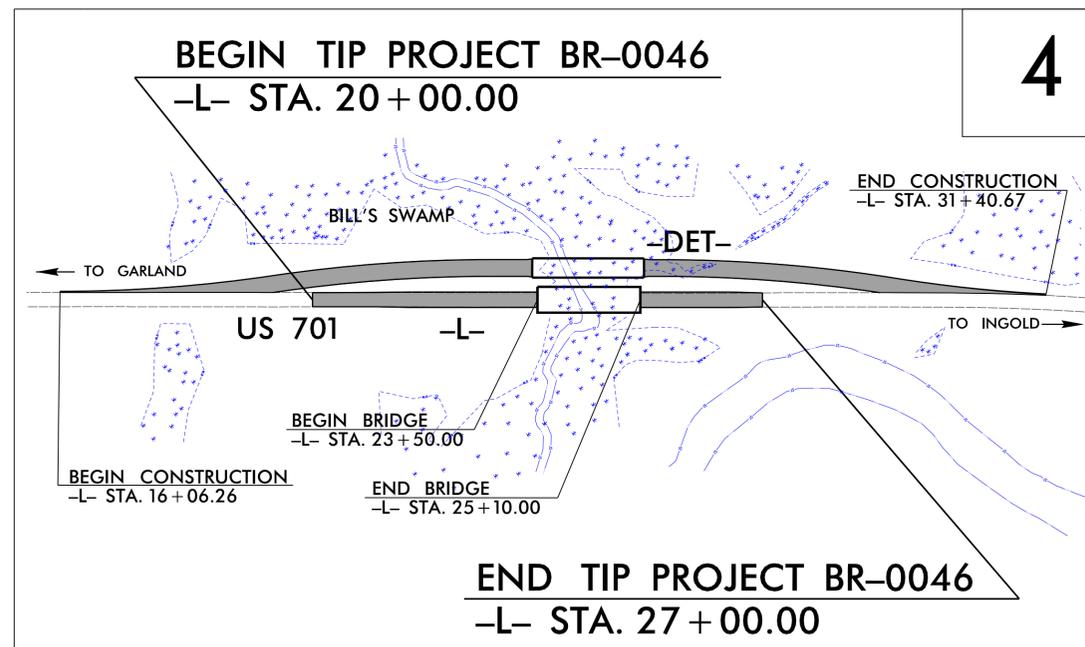
TYPE OF WORK: GRADING, PAVING, DRAINAGE AND STRUCTURES

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	BR-0046	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
67046.1.1		PE	
67046.2.1		ROW	
67046.3.1		CONS.	



VICINITY MAP

WETLAND AND SURFACE WATER IMPACTS PERMIT

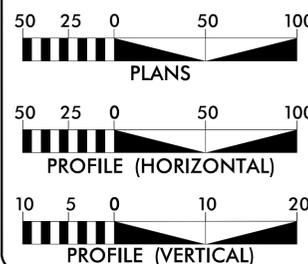


DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

TIP PROJECT: BR-0046

CONTRACT:

GRAPHIC SCALES



DESIGN DATA

ADT 2023 = 5,535
ADT 2043 = 6,165
K = 9 %
D = 55 %
T = 12 % *
V = 60 MPH
* (TTST 8%+ DUAL 4%)
FUNC CLASS =
MINOR ARTERIAL
REGIONAL TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT BR-0046 = 0.103 MI
LENGTH STRUCTURE TIP PROJECT BR-0046 = 0.030 MI
TOTAL LENGTH OF TIP PROJECT BR-0046 = 0.133 MI

Prepared In the Office of:
DIVISION OF HIGHWAYS
1000 Birch Ridge Dr., Raleigh NC, 27610

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
JULY 14, 2022

LETTING DATE:
JUNE 20, 2023

KRISTY ALFORD, PE
PROJECT MANAGER

DAVID J. CLODGO, PE

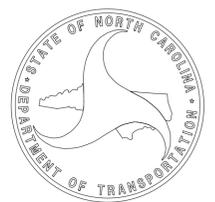
WILLIAM AKABI-DAVIS
PROJECT TEAM LEAD

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

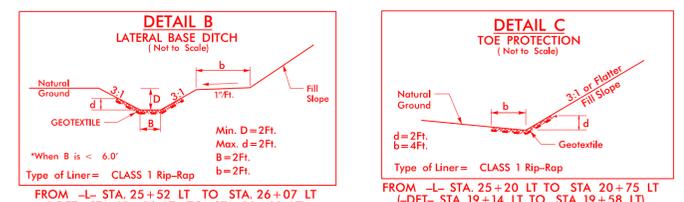
ROADWAY DESIGN
ENGINEER

SIGNATURE: _____ P.E.

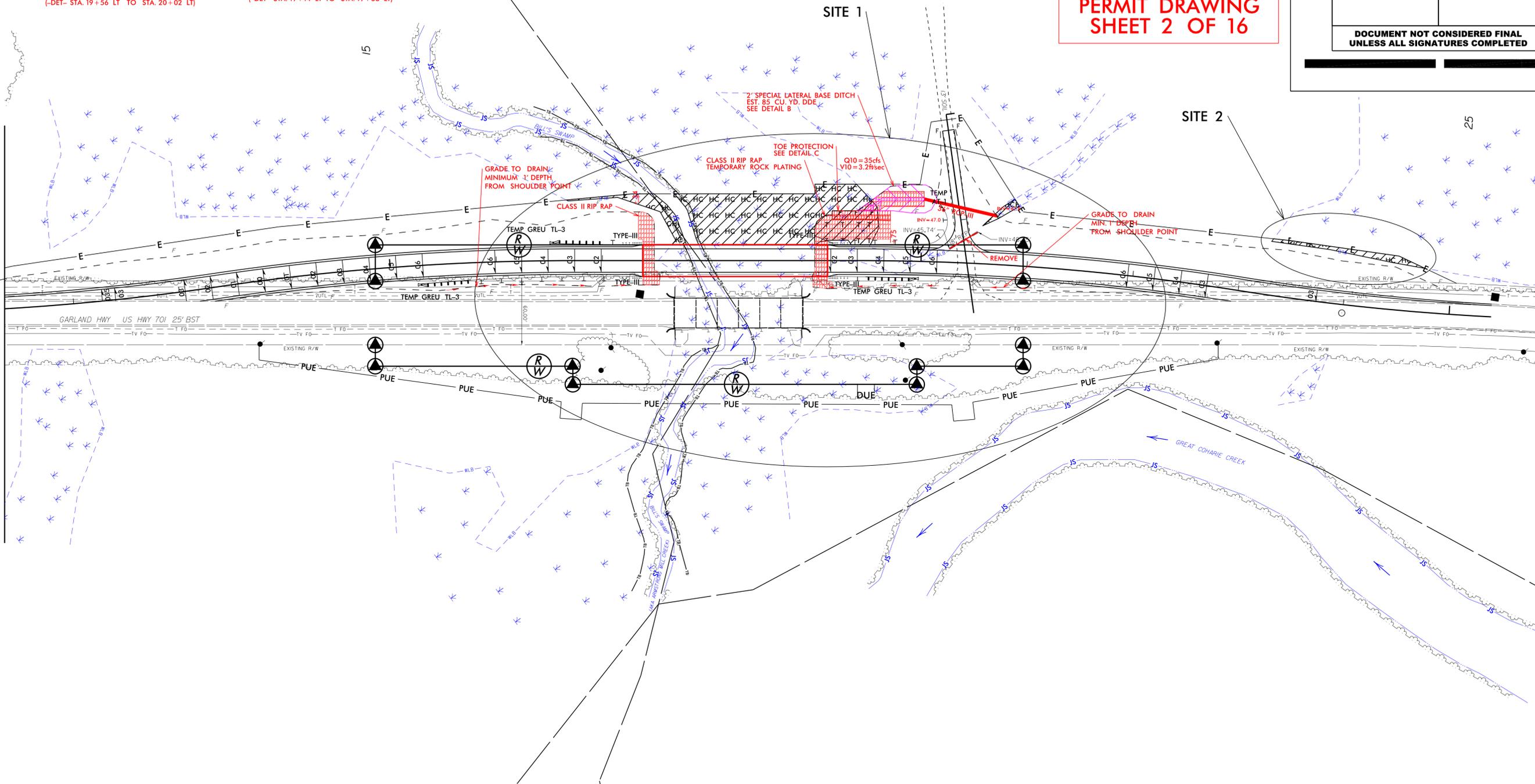


PROJECT REFERENCE NO. BR-0046	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

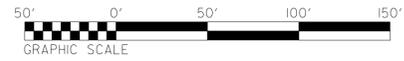
DETOUR BRIDGE
PERMIT DRAWING
SHEET 2 OF 16



MATCHLINE -L- STA. 17+41.00
SEE INSET A



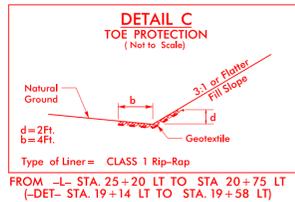
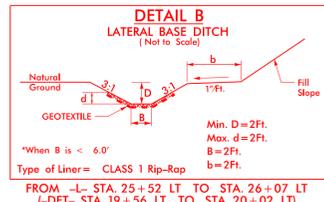
- FILL IN WETLAND
- TEMPORARY FILL IN WETLAND
- HAND CLEARING (NON-GRUBBING)



REVISIONS

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PROJECT REFERENCE NO. BR-0046	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

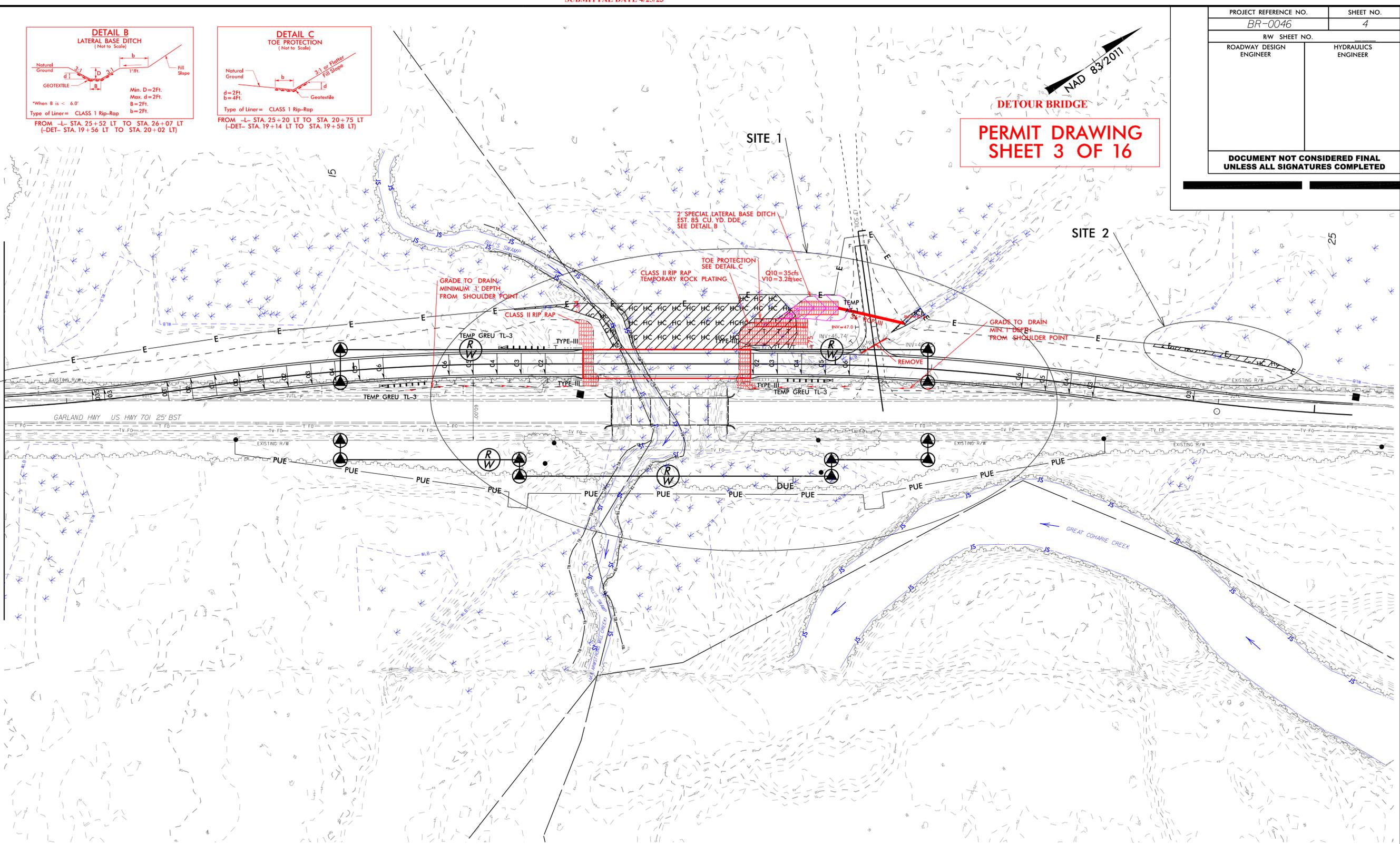


**PERMIT DRAWING
SHEET 3 OF 16**

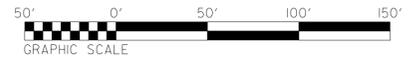


MATCHLINE -L- STA. 17+41.00
SEE INSET A

REVISIONS



- FILL IN WETLAND
- TEMPORARY FILL IN WETLAND
- HAND CLEARING (NON-GRUBBING)



DETOUR BRIDGE

PERMIT DRAWING
SHEET 4 OF 16



PROJECT REFERENCE NO. BR-0046	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



FILL IN WETLAND



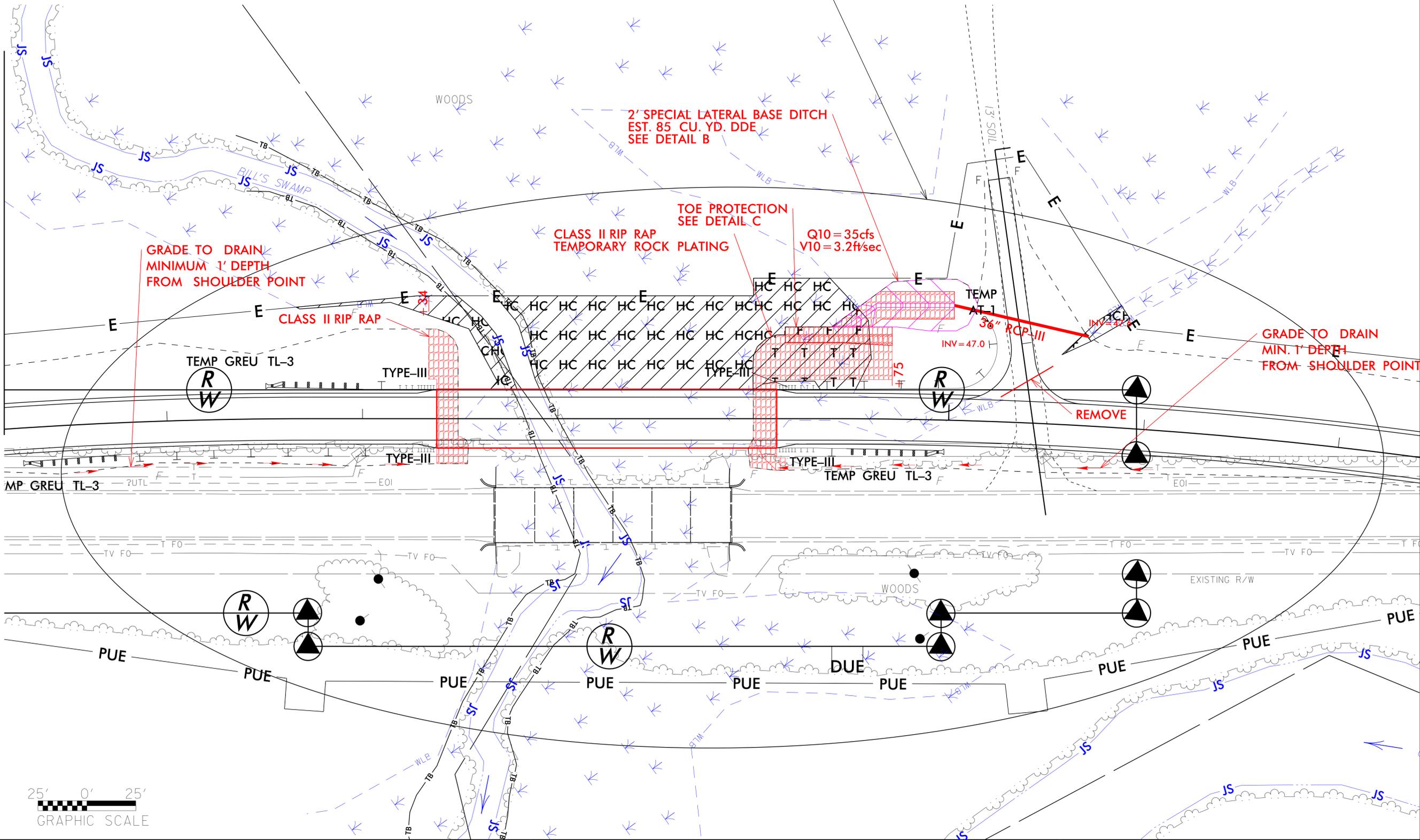
TEMPORARY FILL IN WETLAND



HAND CLEARING (NON-GRUBBING)

SITE 1

MATCHLINE - L- STA. 17+41.00
SEE INSET A



GRADE TO DRAIN
MINIMUM 1' DEPTH
FROM SHOULDER POINT

2' SPECIAL LATERAL BASE DITCH
EST. 85 CU. YD. DDE
SEE DETAIL B

CLASS II RIP RAP
TEMPORARY ROCK PLATING

Q10 = 35cfs
V10 = 3.2ft/sec

TOE PROTECTION
SEE DETAIL C

TEMP GREU TL-3

TYPE-III

TYPE-III

TEMP AT-1

INV = 47.0

36" RCP-III

REMOVE

GRADE TO DRAIN
MIN. 1' DEPTH
FROM SHOULDER POINT



REVISIONS

7/28/2022
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DETOUR BRIDGE

PERMIT DRAWING
SHEET 5 OF 16

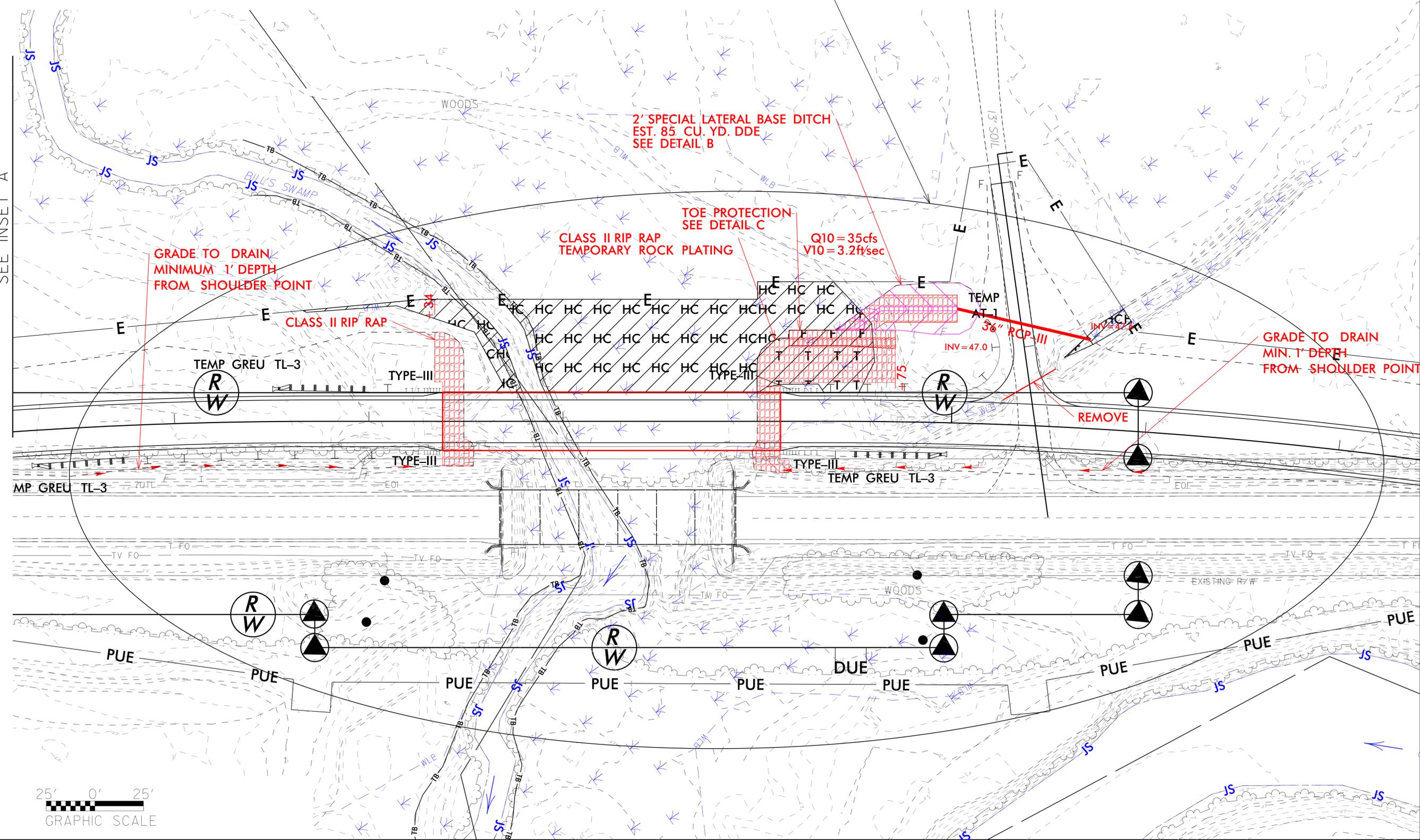


PROJECT REFERENCE NO. BR-0046	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

- F F FILL IN WETLAND
- T T T TEMPORARY FILL IN WETLAND
- HC HC HAND CLEARING (NON-GRUBBING)

SITE 1

MATCHLINE - L- STA. 17+41.00
SEE INSET A



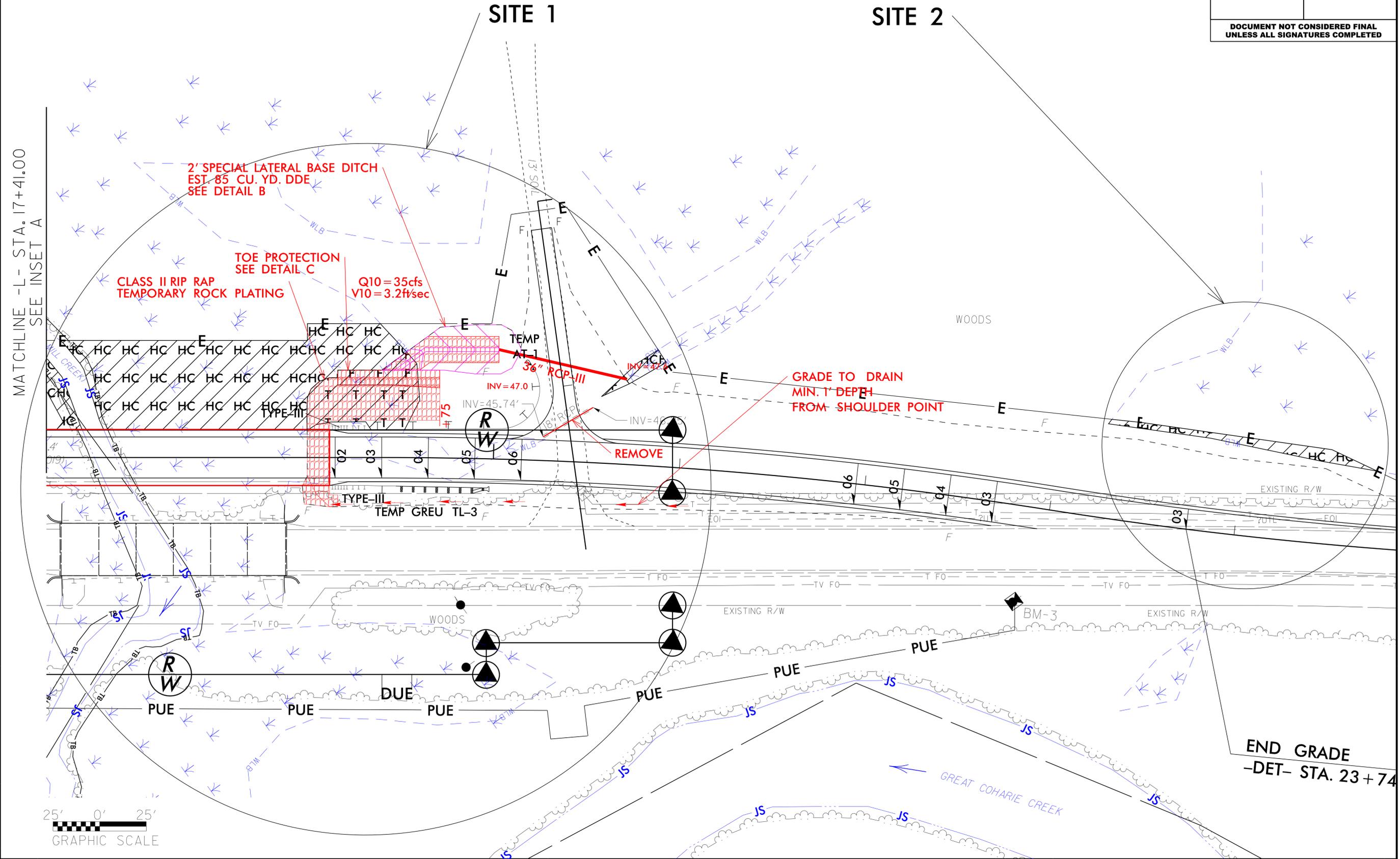
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7/28/2022
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PROJECT REFERENCE NO. BR-0046	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

- F F FILL IN WETLAND
- T T TEMPORARY FILL IN WETLAND
- HC HC HAND CLEARING (NON-GRUBBING)



MATCHLINE -L- STA. 17+41.00
SEE INSET A

END GRADE
-DET- STA. 23+74



REVISIONS

7/28/2022
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DETOUR BRIDGE

PERMIT DRAWING
SHEET 7 OF 12



PROJECT REFERENCE NO. BR-0046	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



FILL IN WETLAND



TEMPORARY FILL IN WETLAND

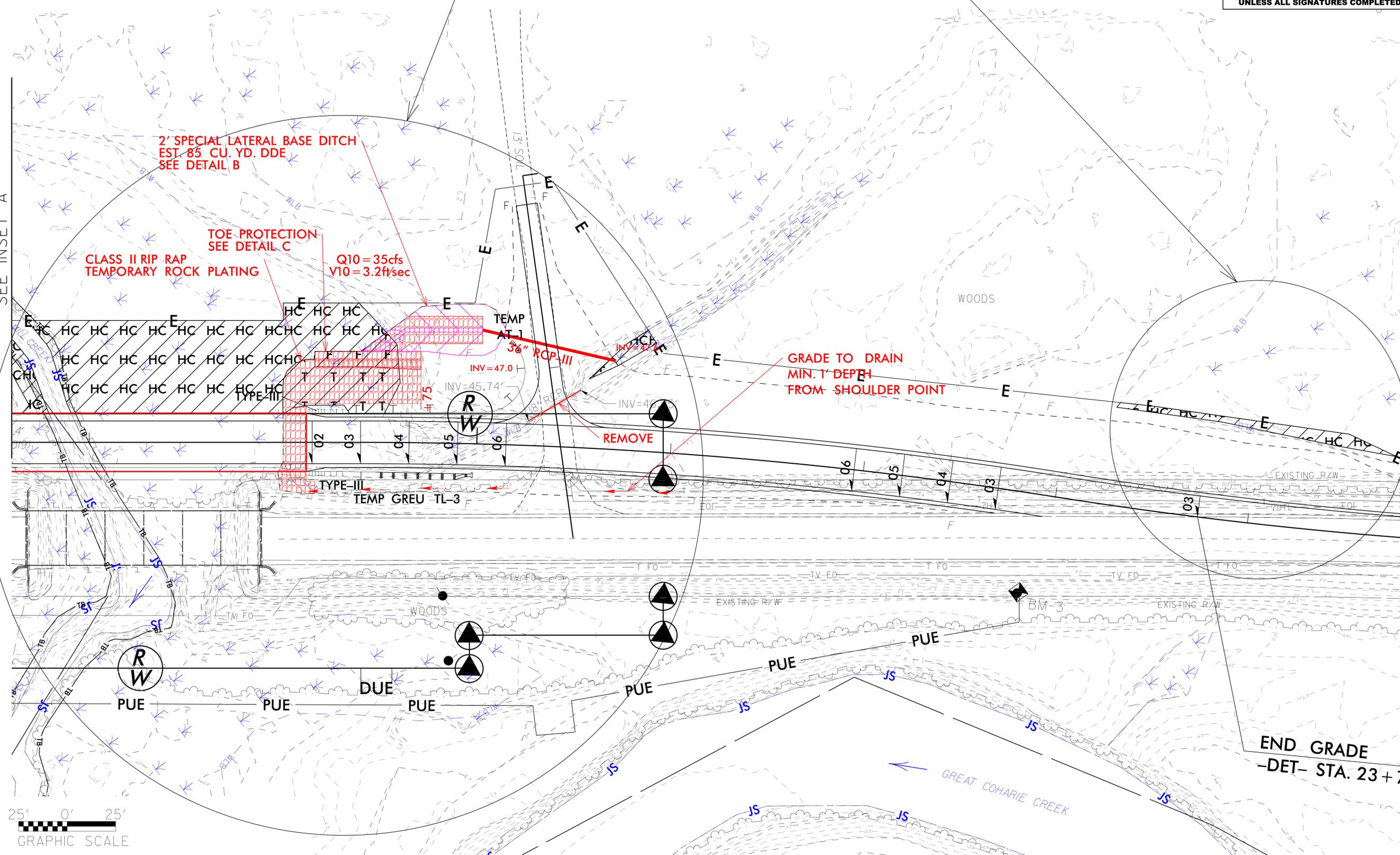


HAND CLEARING (NON-GRUBBING)

SITE 1

SITE 2

MATCHLINE -L- STA. 17+41.00
SEE INSET A



REVISIONS

7/28/2022
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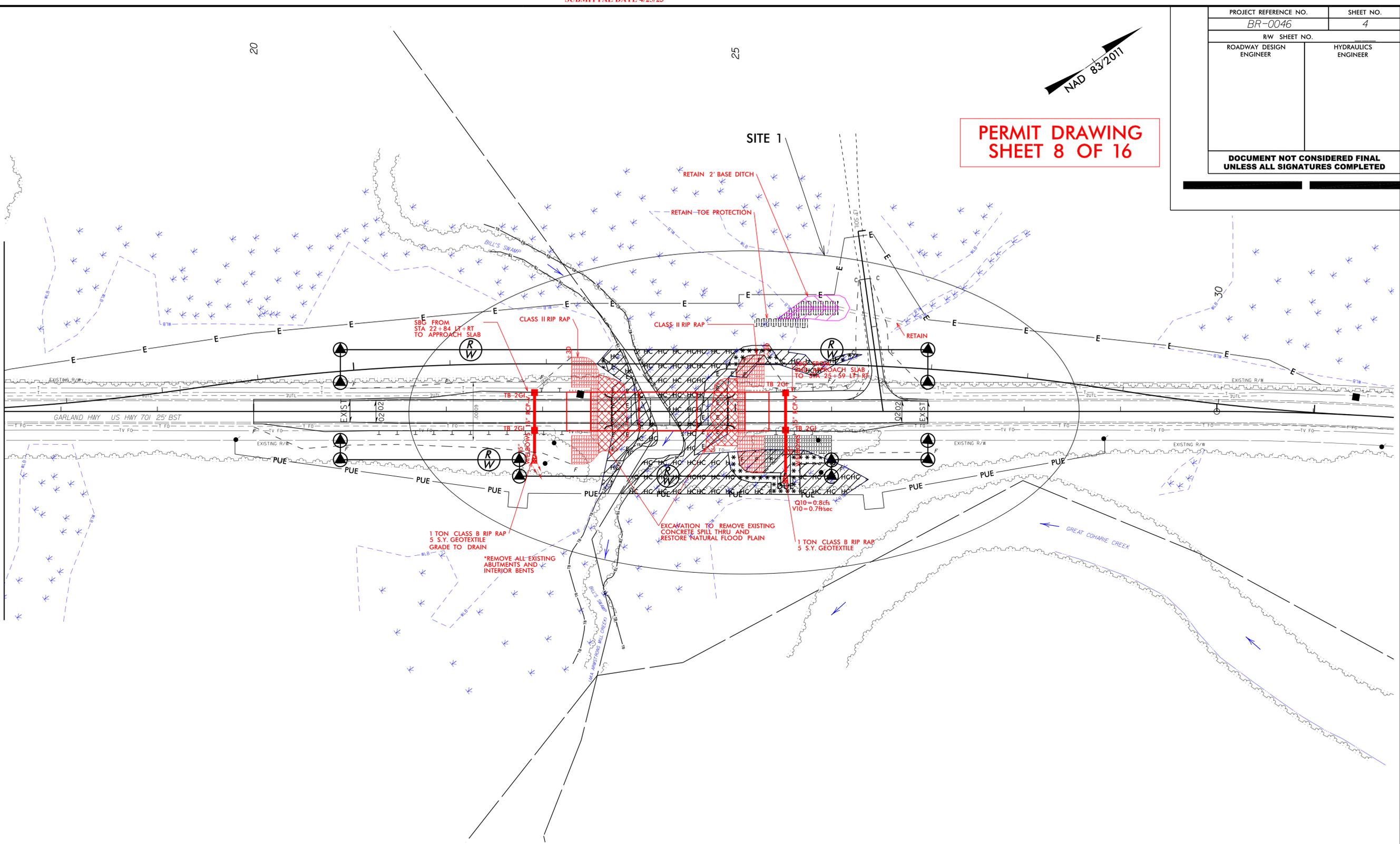
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RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

PERMIT DRAWING
SHEET 8 OF 16

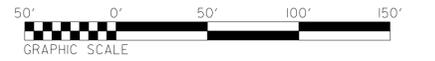


MATCHLINE - L- STA. 17+41.00
SEE INSET A

REVISIONS



- FILL IN WETLAND
- WETLAND EXCAVATION
- MECHANIZED CLEARING (GRUBBING)
- HAND CLEARING (NON-GRUBBING)



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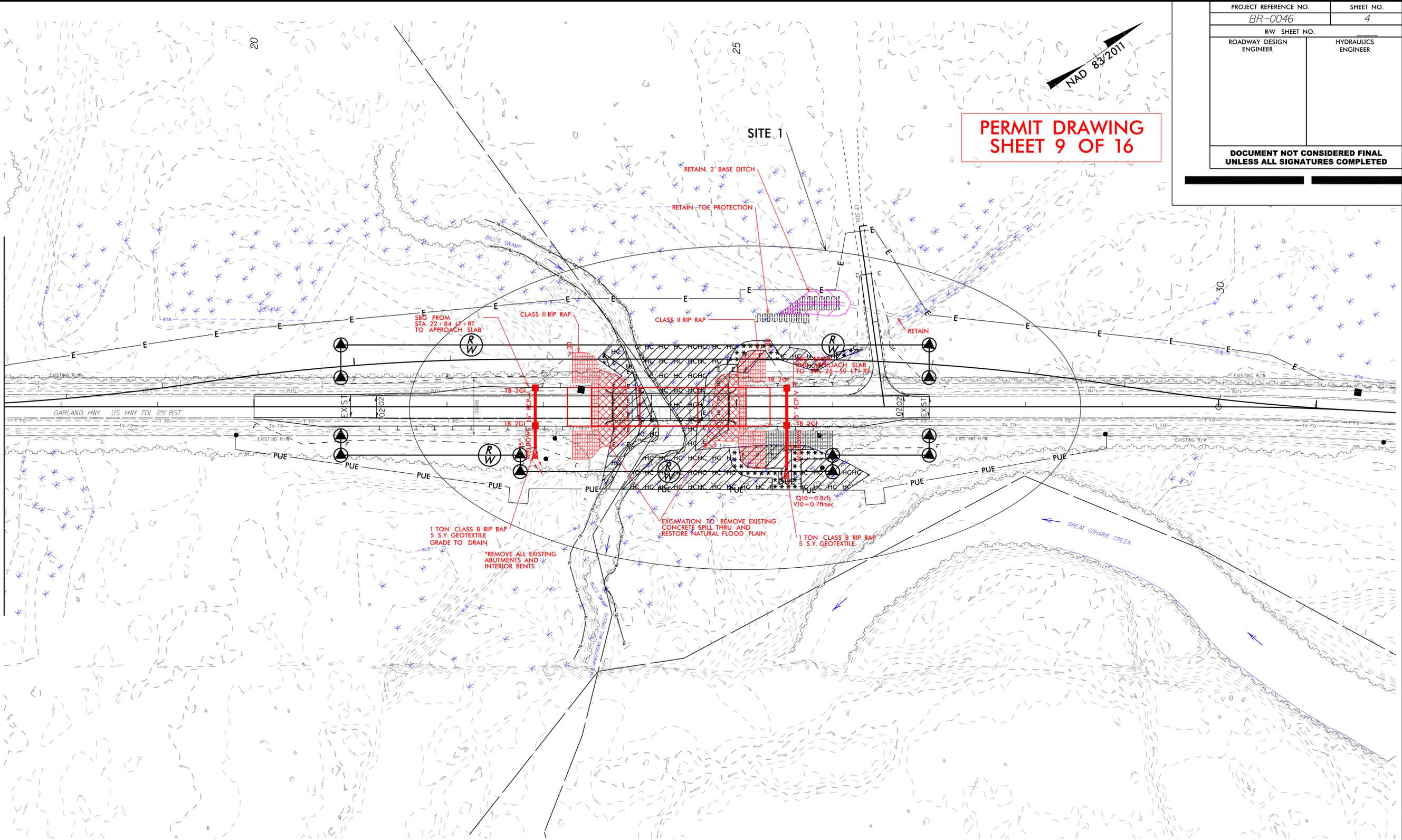
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RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

**PERMIT DRAWING
SHEET 9 OF 16**

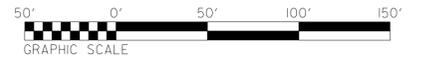


MATCHLINE -L- STA. 17+41.00
SEE INSET A

REVISIONS



- FILL IN WETLAND
- WETLAND EXCAVATION
- MECHANIZED CLEARING (GRUBBING)
- HAND CLEARING (NON-GRUBBING)



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 8/17/199

PROJECT REFERENCE NO. BR-0046	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

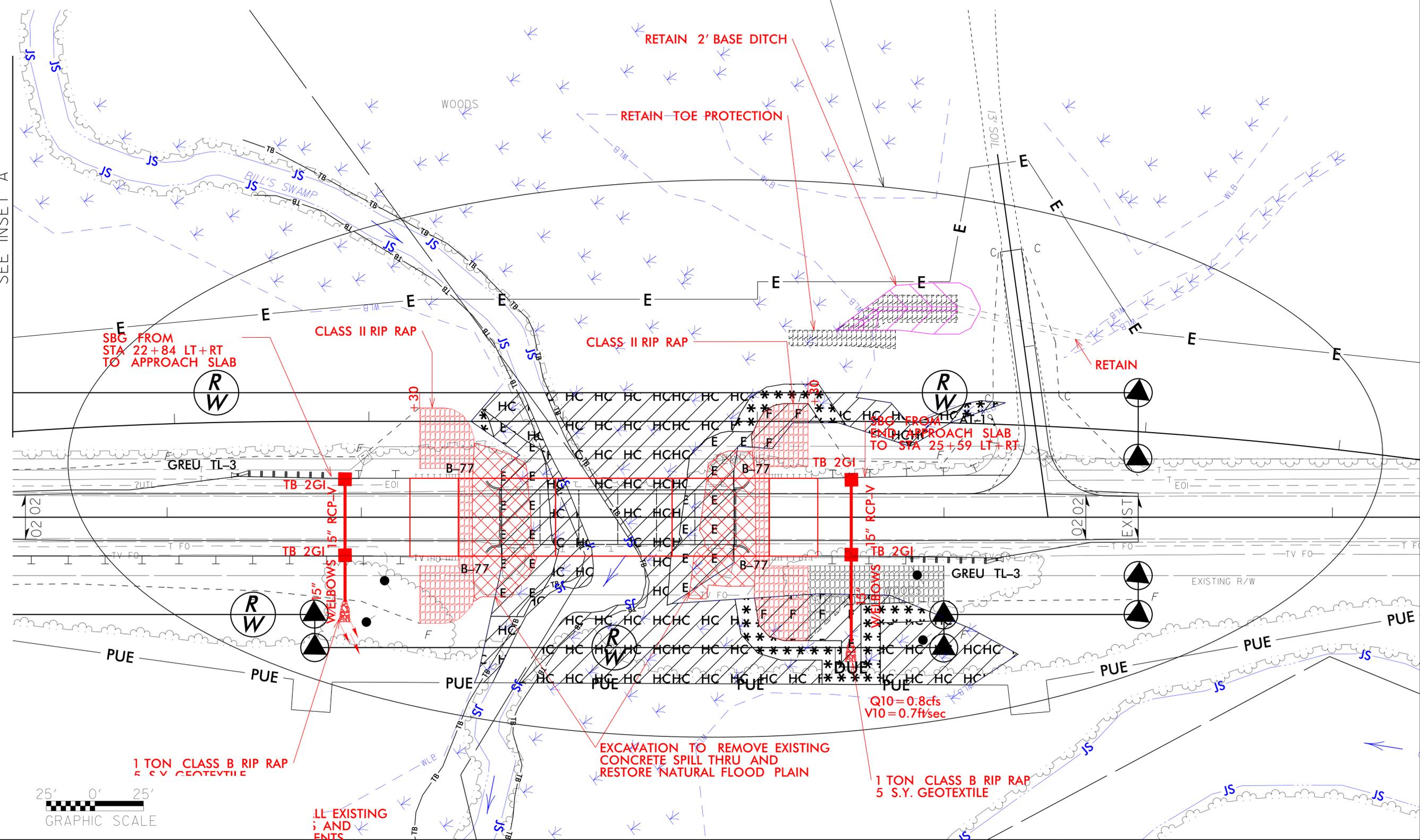
- FILL IN WETLAND
- WETLAND EXCAVATION
- MECHANIZED CLEARING (GRUBBING)
- HAND CLEARING (NON-GRUBBING)

**PERMIT DRAWING
SHEET 10 OF 16**



SITE 1

MATCHLINE - L- STA. 17+41.00
SEE INSET A



REVISIONS

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PROJECT REFERENCE NO. BR-0046	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



FILL IN WETLAND



WETLAND EXCAVATION



MECHANIZED CLEARING (GRUBBING)



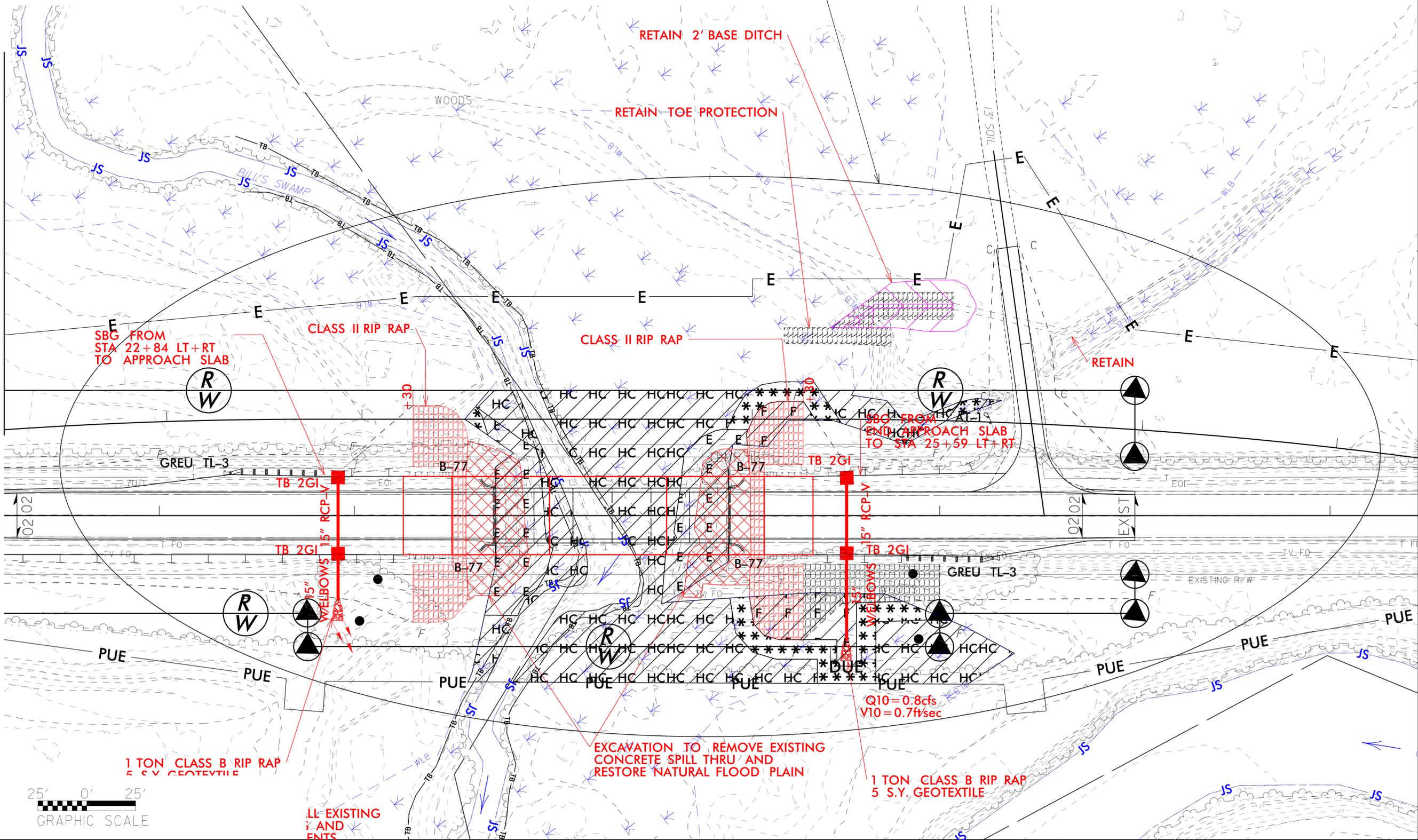
HAND CLEARING (NON-GRUBBING)

**PERMIT DRAWING
SHEET 11 OF 16**



SITE 1

MATCHLINE - L- STA. 17+41.00
SEE INSET A



REVISIONS

7/28/2022 R:\Hydro\Permits\Environmental\Drawings\BR0046_Hyd_prm_wet_psh04_BU.dgn

**PERMIT DRAWING
SHEET 12 OF 16**

PROJECT REFERENCE NO. BR-0046	SHEET NO. 5
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

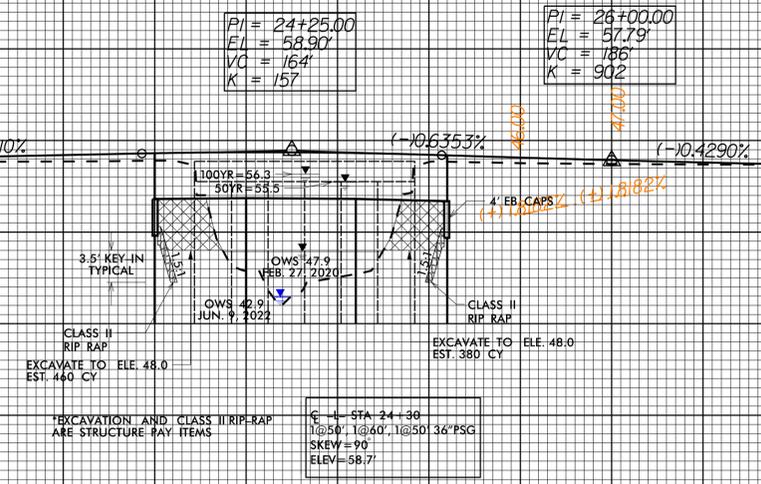
BEGIN MILL & OVERLAY
-L- STA. 20+00.00

BEGIN GRADE
-L- STA. 21+00.00
EL. 57.56'

END GRADE
-L- STA. 27+00.00
EL. 57.36'

BRIDGE 022 HYDRAULIC DATA

DESIGN DISCHARGE	= 10720	CFS
DESIGN FREQUENCY	= 50	YRS
DESIGN HW ELEVATION	= 55.3	FT
BASE DISCHARGE	= 13170	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 56.1	FT
OVERTOPPING DISCHARGE	= 16000	CFS
OVERTOPPING FREQUENCY	= 500	YRS
OVERTOPPING ELEVATION	= 56.8	FT
DATE OF SURVEY	= 02-27-2020	
W.S. ELEVATION AT DATE OF SURVEY	= 47.9	FT



BM3 ELEVATION = 54.76'
N 388284 E 2190654
-L- STATION 28+83 28' RIGHT
SPIKE IN POWER POLE

17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

DET

BEGIN GRADE
-DET- STA. 12+27.25
EL. 56.96'

PI = 13+03.00
EL = 57.11'
VC = 150'
K = 225

PI = 15+34.00
EL = 56.03'
VC = 150'
K = 185

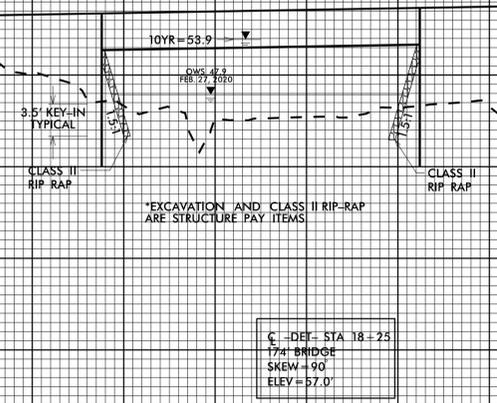
PI = 21+43.00
EL = 56.13'
VC = 162'
K = 176

PI = 22+99.00
EL = 57.34'
VC = 150'
K = 175

END GRADE
-DET- STA. 23+74.05
EL. 57.60'

BRIDGE 022-DET HYDRAULIC DATA

DESIGN DISCHARGE	= 10720	CFS
DESIGN FREQUENCY	= 10	YRS
DESIGN HW ELEVATION	= 53.9	FT
BASE DISCHARGE	= 13170	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 56.7	FT
OVERTOPPING DISCHARGE	= 17240	CFS
OVERTOPPING FREQUENCY	= 500	YRS
OVERTOPPING ELEVATION	= 57.9	FT
DATE OF SURVEY	= 02-27-2020	
W.S. ELEVATION AT DATE OF SURVEY	= 47.9	FT



BM3 ELEVATION = 54.76'
N 388284 E 2190654
-L- STATION 28+83 28' RIGHT
SPIKE IN POWER POLE

STRUCTURE EXCAVATION

FOR -L- ALIGNMENT, SEE SHEET 4

FOR -L- DET- ALIGNMENT, SEE SHEET 2B-1 & 2B-2

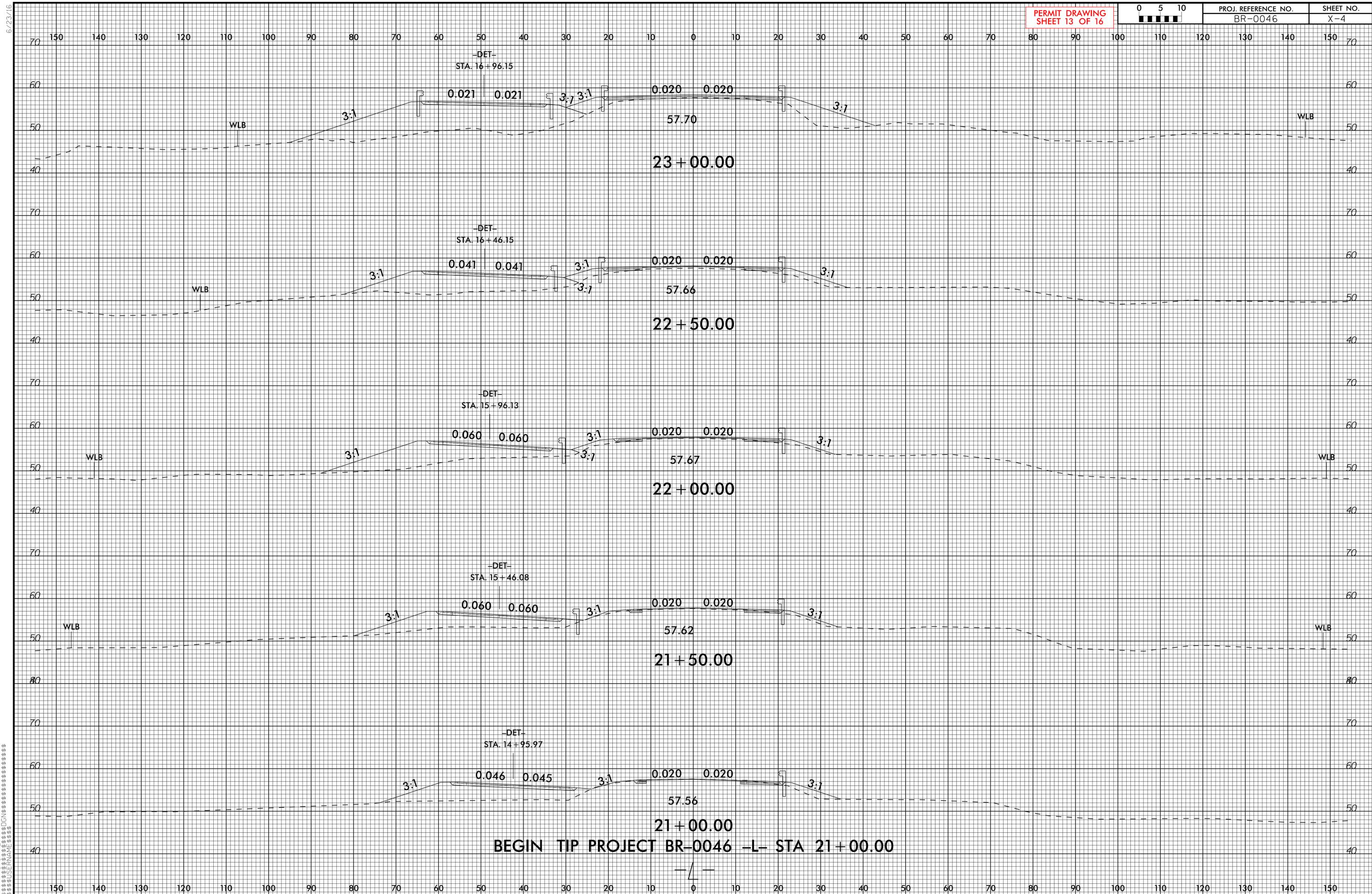
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5/28/99
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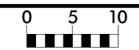
PERMIT DRAWING
SHEET 13 OF 16



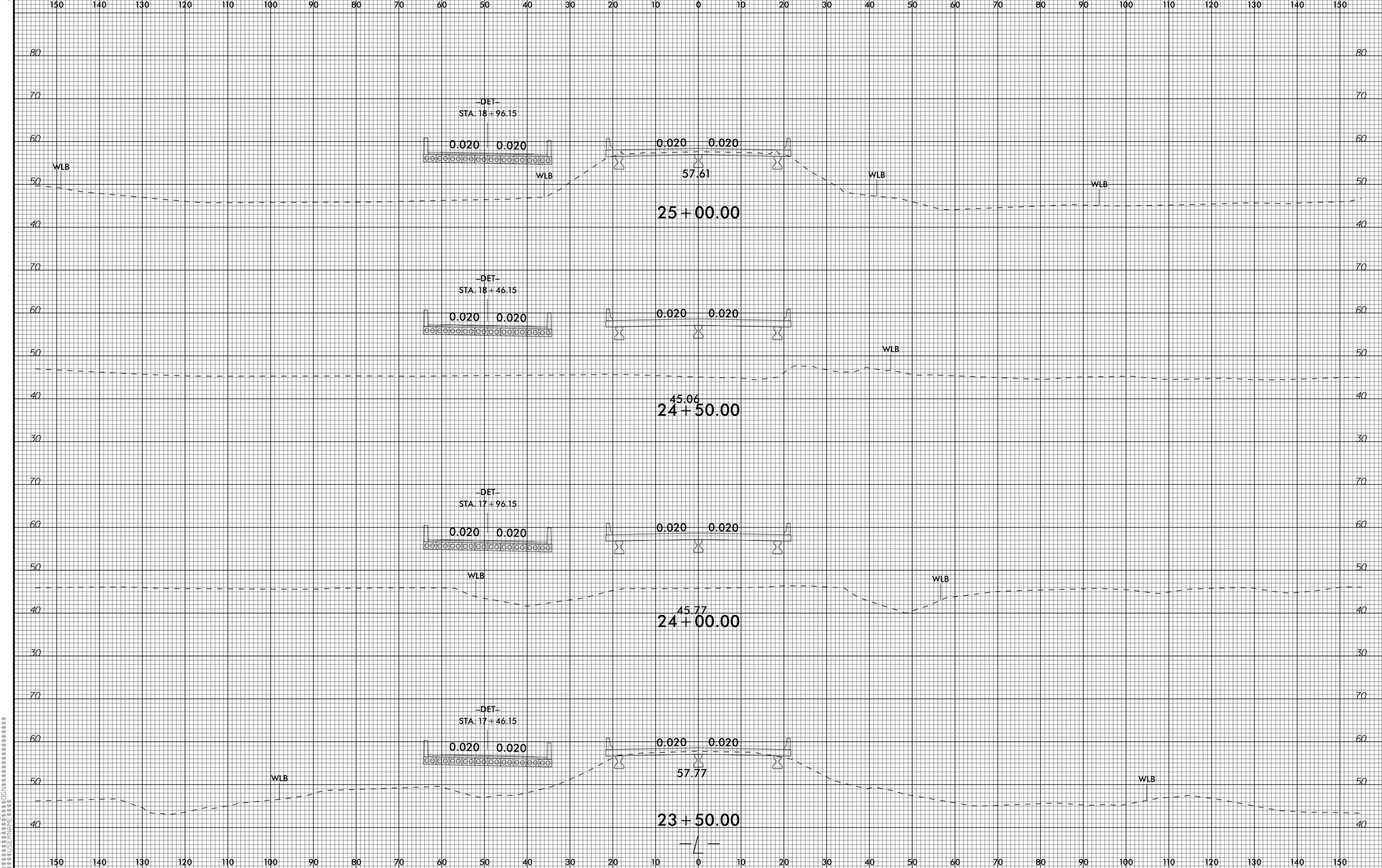
PROJ. REFERENCE NO.	SHEET NO.
BR-0046	X-4



6/23/16
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6/23/16



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WETLAND PERMIT IMPACT SUMMARY												
Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS					SURFACE WATER IMPACTS				
			Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
1	23+56 / 26+38	Bridge	0.04		0.10	0.05	0.33					
1	22+70 / 26+96 LT	Detour Bridge	0.01	0.03			0.18					
2	29+34 / 30+77 LT	Detour Bridge					0.01					
TOTALS*:			0.05	0.03	0.10	0.05	0.53					

*Rounded totals are sum of actual impacts

NOTES:
 There will be < 0.01 Ac of Temporary Fill for Erosion Control measures in the Hand Clearing Area

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 8/1/2022
Sampson County
BR-0046



NORTH CAROLINA
Environmental Quality

ROY COOPER
Governor
ELIZABETH S. BISER
Secretary
MARC RECKTENWALD
Director

April 18, 2023

Mr. Jamie Lancaster, P.E.
Environmental Analysis Unit
North Carolina Department of Transportation
1598 Mail Service Center
Raleigh, North Carolina 27699-1598

Dear Mr. Lancaster:

Subject: Mitigation Acceptance Letter:

BR-0046, Replace Bridge 810022 on US 701 over Bill’s Swamp, Sampson County

The purpose of this letter is to notify you that the North Carolina Department of Environmental Quality – Division of Mitigation Services (NCDEQ-DMS) will provide the mitigation for the subject project. Based on the information received from you on April 16, 2023, the impacts are located in CU 03030006 of the Cape Fear River basin in the Southern Inner Coastal Plain (SICP) Eco-Region, and are as follows:

Cape Fear 03030006	Stream			Wetlands			Buffer (Sq. Ft.)	
	Cold	Cool	Warm	Riparian	Non-Riparian	Coastal Marsh	Zone 1	Zone 2
Impacts (feet/acres)	0	0	0	0.200	0	0	0	0

The impacts and associated mitigation needs were not projected by the NCDOT in the 2023 impact data. NCDEQ – DMS commits to implementing sufficient compensatory 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 NCDEQ-DMS.

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

Sincerely,

for James B. Stanfill
DMS Deputy Director

cc: Mr. Monte Matthews, USACE – Raleigh
Ms. Amy Chapman, NCDWR
File: BR-0046



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

18-03-0015

Brief Explanation of why the available information provides a reliable basis for reasonably predicting that there are no unidentified historic properties in the APE:

No documented cultural resources are contained within the current APE limits. Environmental and cultural-historical factors do not suggest a heightened potential for archaeological resource recovery. A large percentage of the APE is underlain by poorly drained and frequently flooded ground surfaces. Intact NRHP archaeological sites are unlikely to be present or preserved within the currently defined APE. No further consultation is advocated. A finding of "no archaeological survey required" is considered appropriate.

SUPPORT DOCUMENTATION

See attached: Map(s) Previous Survey Info Photos Correspondence
 Photocopy of County Survey Notes Other:

FINDING BY NCDOT ARCHAEOLOGIST

NO ARCHAEOLOGY SURVEY REQUIRED

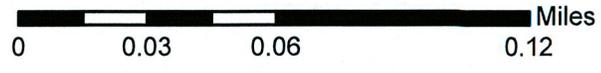
Scott Eric Helman

 NCDOT

3-19-2018



NC Center for Geographic Information & Analysis

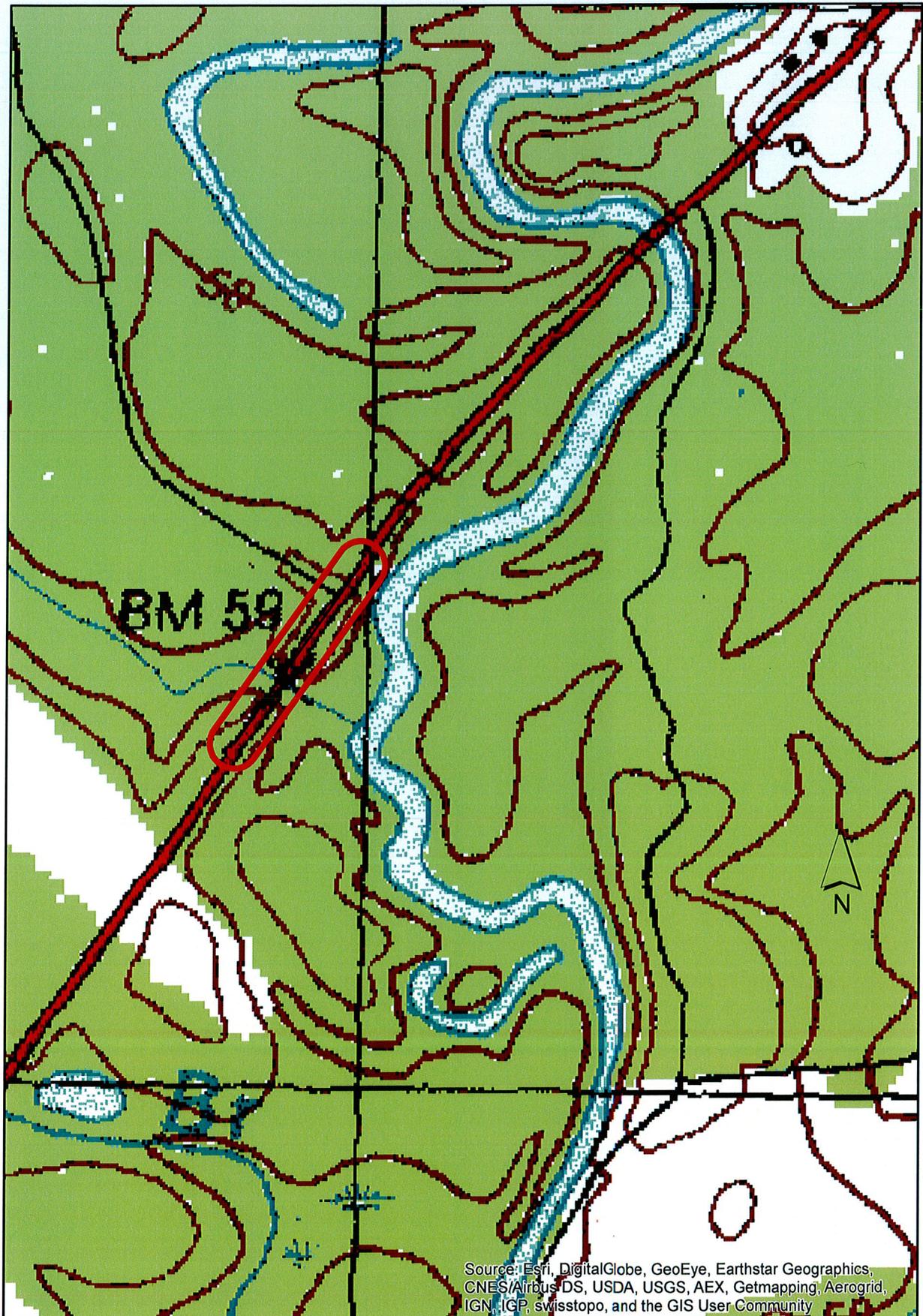


Ingold Quadrangle

BR 0046 Sampson County

Bridge No. 22 over Black River overflow on US 701





Portion of the Ingold topographic map relating the boundaries and location of the APE in Sampson County, North Carolina.



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

ARC-GIS aerial map displaying the boundaries and location of the APE in Sampson County, North Carolina.



ChA—Chipley sand, 0 to 2 percent slopes

Map Unit Setting

- *National map unit symbol:* 3vq3
- *Elevation:* 80 to 330 feet
- *Mean annual precipitation:* 38 to 55 inches
- *Mean annual air temperature:* 59 to 70 degrees F
- *Frost-free period:* 210 to 265 days
- *Farmland classification:* Not prime farmland

Map Unit Composition

- *Chipley and similar soils:* 80 percent
- *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Chipley

Setting

- *Landform:* Ridges on marine terraces, ridges on stream terraces
- *Down-slope shape:* Linear
- *Across-slope shape:* Concave
- *Parent material:* Sandy fluviomarine deposits and/or eolian sands

Typical profile

- *A - 0 to 6 inches:* sand
- *C - 6 to 80 inches:* fine sand

Properties and qualities

- *Slope:* 0 to 2 percent
- *Depth to restrictive feature:* More than 80 inches
- *Natural drainage class:* Moderately well drained
- *Runoff class:* Very low
- *Capacity of the most limiting layer to transmit water (Ksat):* High to very high (5.95 to 19.98 in/hr)
- *Depth to water table:* About 18 to 36 inches
- *Frequency of flooding:* Rare
- *Frequency of ponding:* None
- *Salinity, maximum in profile:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

- *Available water storage in profile:* Low (about 3.7 inches)
-

BH—Bibb and Johnston soils, frequently flooded

Map Unit Setting

- *National map unit symbol:* 3vq0
- *Elevation:* 80 to 330 feet
- *Mean annual precipitation:* 38 to 55 inches
- *Mean annual air temperature:* 59 to 70 degrees F
- *Frost-free period:* 210 to 265 days
- *Farmland classification:* Not prime farmland

Map Unit Composition

- *Bibb, undrained, and similar soils:* 80 percent
- *Johnston, undrained, and similar soils:* 10 percent
- *Estimates are based on observations, descriptions, and transects of the mapunit.*

Description of Bibb, Undrained

Setting

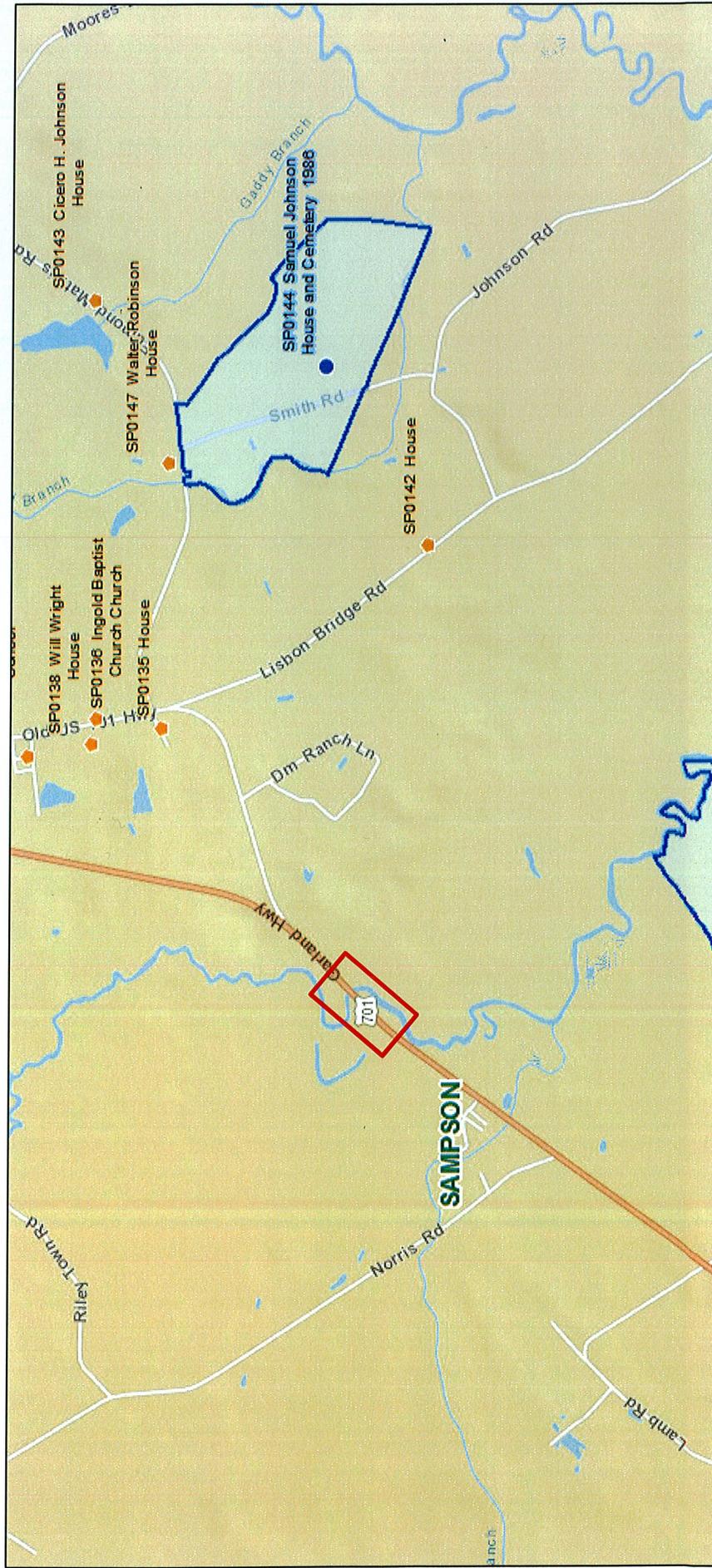
- *Landform:* Flood plains
- *Landform position (two-dimensional):* Toeslope
- *Down-slope shape:* Concave
- *Across-slope shape:* Linear
- *Parent material:* Sandy and loamy alluvium

Typical profile

- *A - 0 to 6 inches:* sandy loam
- *Cg1 - 6 to 60 inches:* sandy loam
- *Cg2 - 60 to 80 inches:* loamy sand

Properties and qualities

- *Slope:* 0 to 2 percent
- *Depth to restrictive feature:* More than 80 inches
- *Natural drainage class:* Poorly drained
- *Runoff class:* Low
- *Capacity of the most limiting layer to transmit water (Ksat):* High (1.98 to 5.95 in/hr)
- *Depth to water table:* About 0 to 12 inches
- *Frequency of flooding:* Frequent
- *Frequency of ponding:* None
- *Available water storage in profile:* Moderate (about 7.2 inches)



NCSHPO website map illustrating the generalized project study area in Sampson County, North Carolina.

18-03-0015



HISTORIC ARCHITECTURE AND LANDSCAPES NO SURVEY REQUIRED FORM

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

PROJECT INFORMATION

Project No.:	BR-0046	County:	Sampson
WBS No.:	67046.1.1	Document Type:	
Fed. Aid No.:		Funding:	X State Federal
Federal Permit(s):	X Yes <input type="checkbox"/> No	Permit Type(s):	USACE
Project Description: Replace Bridge No. 22 on US 701 over Black River Overflow (no off-site detour specified in review request).			

SUMMARY OF HISTORIC ARCHITECTURE AND LANDSCAPES REVIEW

DESCRIPTION OF REVIEW ACTIVITIES, RESULTS, AND CONCLUSIONS: HPOWeb reviewed on 22 March 2018 and yielded no NR, SL, LD, DE, or SS properties in the Area of Potential Effects (APE). Sampson County current GIS mapping, aerial photography, and tax information indicate a mostly wooded APE with several residential and agricultural resources dating from the mid-to-late twentieth century, all unexceptional examples of their types (viewed 22 March 2018). Constructed in 1954, Bridge No. 22 is not eligible for the National Register, according to the NCDOT Historic Bridge Inventory, as it is neither aesthetically nor technologically significant. Google Maps "Street View" confirmed the absence of critical architectural or landscape resources in APE (22 March 2018).

No architectural survey is required for the project as currently defined.

WHY THE AVAILABLE INFORMATION PROVIDES A RELIABLE BASIS FOR REASONABLY PREDICTING THAT THERE ARE NO UNIDENTIFIED SIGNIFICANT HISTORIC ARCHITECTURAL OR LANDSCAPE RESOURCES IN THE PROJECT AREA: APE extends 1000 feet from each end of the existing bridge (NE-SW) and 200 feet to either side of the US 701 centerline (NW-SE) to encompass proposed construction. The comprehensive architectural survey of the county (1979; Tom Butchko, *An Inventory of Historic Architecture, Sampson County, North Carolina* (Clinton: City of Clinton, 1981)) and later additions record no properties in the APE. County GIS/tax materials and other visuals illustrate the absence of significant architectural and landscape resources in the APE. No National Register-listed or -eligible properties are located within the APE.

Should the design of the project change, please notify NCDOT Historic Architecture as additional review may be necessary.

SUPPORT DOCUMENTATION

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

FINDING BY NCDOT ARCHITECTURAL HISTORIAN

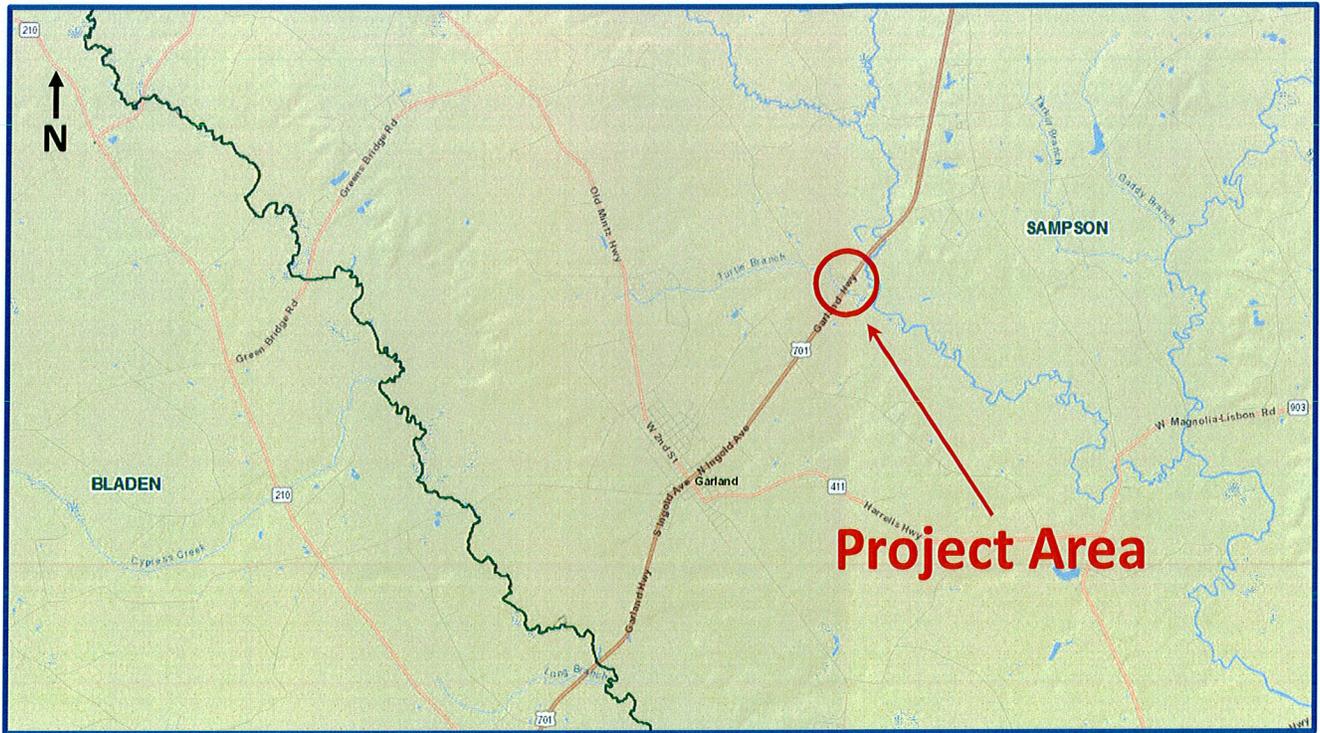
Historic Architecture and Landscapes -- NO SURVEY REQUIRED

Vanessa C. Butchko

12 April 2018

NCDOT Architectural Historian

Date



BR-0046 Bridge No. 22 Replacement Sampson County
WBS No. 67046.1.1 Base map: HPOWeb, nts

From: [Gillespie, Allyn K](#)
To: [greg_jacobs53](#); [NATHPO](#); [bprintup@hetf.org](#); [Greg.Jacobs@CoharieTribe.org](#)
Cc: [Herndon, T. Mason](#); [Webb, David S](#); [Foster, Alexander J](#); [Riffey, Deanna](#); [Wilkerson, Matt T](#); [Thomas.A.Steffens@usace.army.mil](#)
Subject: RE: [External] RE: BR-0046 (Replace Bridge 810022 on US 701 over Bill's Swamp, Sampson County, NC)
Date: Tuesday, April 18, 2023 4:18:37 PM
Attachments: [image001.png](#)

Hi Greg,

You can call me Kim. Thank you for your response. We will keep the Coharie Tribe informed of any discoveries as this project progresses.

Thank you again for responding to our letter; please let me know if you have other questions or concerns regarding the subject project.

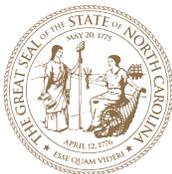
Allyn Kim L. Gillespie, PE

Eastern Region Project Manager, Project Management Unit
North Carolina Department of Transportation

919-707-6023 office
klgillespie@ncdot.gov

1582 Mail Service Center (Delivery)
Raleigh, NC 27699-1582

1000 Birch Ridge Drive (Mail)
Raleigh, NC 27610



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From: Greg Jacobs <greg_jacobs53@yahoo.com>
Sent: Tuesday, April 18, 2023 1:58 PM
To: Gillespie, Allyn K <klgillespie@ncdot.gov>; [NATHPO <info@nathpo.org>](mailto:info@nathpo.org); bprintup@hetf.org; Greg.Jacobs@CoharieTribe.org
Cc: [Herndon, T. Mason <tmherndon@ncdot.gov>](mailto:Tmherndon@ncdot.gov); [Webb, David S <dswebb1@ncdot.gov>](mailto:dswebb1@ncdot.gov); [Foster, Alexander J <ajfoster@ncdot.gov>](mailto:ajfoster@ncdot.gov); [Riffey, Deanna <driffey@ncdot.gov>](mailto:driffey@ncdot.gov); [Wilkerson, Matt T <mtwilkerson@ncdot.gov>](mailto:mtwilkerson@ncdot.gov); Thomas.A.Steffens@usace.army.mil
Subject: Re: [External] RE: BR-0046 (Replace Bridge 810022 on US 701 over Bill's Swamp, Sampson County, NC)

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Report Message button located on your Outlook menu bar on the Home tab.

Allyn

Thank you for reaching out to the Coharie Tribe. Please make us aware of any human remains or artifacts that you might unearth as you develop this project. We want to insure that such discoveries are handled with respect and proper protocols is followed.

[Sent from Yahoo Mail for iPhone](#)

On Tuesday, April 18, 2023, 12:51 PM, Gillespie, Allyn K <klgillespie@ncdot.gov> wrote:

Ms. Madrigal,

Thank you for your response. I have reached out to the Coharie Tribe and the Tuscarora Indian Nation, so I will await their response. Thank you so much for responding to our letter; please let me know if you have other questions or concerns regarding the subject project.

Kim L. Gillespie, PE

Eastern Region Project Manager, Project Management Unit

North Carolina Department of Transportation

919-707-6023 office

klgillespie@ncdot.gov

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Raleigh, NC 27610



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North Carolina Public Records Law and may be disclosed to third parties.*

From: NATHPO <info@nathpo.org>

Sent: Tuesday, April 18, 2023 12:37 PM

To: Gillespie, Allyn K <klgillespie@ncdot.gov>; bprintup@hetf.org; NATHPO
<info@nathpo.org>; greg_jacobs53 <greg_jacobs53@yahoo.com>;
Greg.Jacobs@CoharieTribe.org

Cc: Herndon, T. Mason <tmherndon@ncdot.gov>; Webb, David S
<dswebb1@ncdot.gov>; Foster, Alexander J <ajfoster@ncdot.gov>; Riffey, Deanna
<driffey@ncdot.gov>; Wilkerson, Matt T <mtwilkerson@ncdot.gov>;
Thomas.A.Steffens@usace.army.mil

Subject: [External] RE: BR-0046 (Replace Bridge 810022 on US 701 over Bill's Swamp,
Sampson County, NC)

CAUTION: External email. Do not click links or open attachments unless verified. Report suspicious emails with the Report Message button located on your Outlook menu bar on the Home tab.

Good afternoon –

NATHPO is not able to confirm the presence of historic resources, as we are a membership organization of federally-recognized Tribal Historic Preservation Officers (THPO) and do not provide guidance on projects. I recommend that you contact Tribes in the area with the understanding that you may need to reach out to them more than once and using more than one method.

There one THPO in North Carolina ([Directory Map - NC](#)) but that *does not mean* that there aren't Tribes with interests and ancestral lands in the area. THPOs and Tribes tend to consult on projects across states that they historically occupied. If you cannot

locate Tribes in the area, contact the [NC State Historic Preservation Officer](#) (SHPO) for help with this matter.

Thank you for reaching out,
Melissa

Melissa Madrigal

NATHPO Director of Operations

www.nathpo.org

713.245.6205

From: Gillespie, Allyn K <klgillespie@ncdot.gov>

Sent: Tuesday, April 11, 2023 2:29 PM

To: bprintup@hetf.org; NATHPO <info@nathpo.org>; greg_jacobs53 <greg_jacobs53@yahoo.com>; Greg.Jacobs@CoharieTribe.org

Cc: Herndon, T. Mason <tmherndon@ncdot.gov>; Webb, David S <dswebb1@ncdot.gov>; Foster, Alexander J <ajfoster@ncdot.gov>; Riffey, Deanna <driffey@ncdot.gov>; Wilkerson, Matt T <mtwilkerson@ncdot.gov>; Thomas.A.Steffens@usace.army.mil

Subject: BR-0046 (Replace Bridge 810022 on US 701 over Bill's Swamp, Sampson County, NC)

Good Afternoon,

The North Carolina Department of Transportation (NCDOT) – Division 3 is beginning the project development, planning, and engineering studies for State Transportation Improvement Program (STIP) Project Number BR-0046, which proposes to replace Bridge #810022 over Bill's Swamp on US 701 in Sampson County, North Carolina.

Attached are the Start of Study letters and vicinity map for the proposed project. We respectfully request any comments you may have on the subject project be sent as a reply to this email, or via email to klgillespie@ncdot.gov by **Friday, June 30, 2023**.

If you have any questions regarding the project, please feel free to contact me by email klgillespie@ncdot.gov or phone, (919) 707-6023. Let me know if any of you need a

hard copy of the attached information. Thank you for your time and assistance in this project.

Kim L. Gillespie, PE

Eastern Region Project Manager, Project Management Unit

North Carolina Department of Transportation

919-707-6023 office

klgillespie@ncdot.gov

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Type I or II Categorical Exclusion Action Classification Form

STIP Project No.	BR-0046
WBS Element	67046.1.1
Federal Project No.	N/A

A. Project Description:

Replace Sampson County Bridge No. 22 on US 701 over Bills Swamp.

B. Description of Need and Purpose:

Bridge No.22 has a sufficiency rating of only 10.3 out of 100. The 65-year-old structure is rated as structurally deficient with a structure rating of 3 out of 9. The structure is approaching the end of its useful life.

C. Categorical Exclusion Action Classification:

Type I(A) - Ground Disturbing Action

D. Proposed Improvements:

Type I, Item 28 – Bridge Replacement, if the actions meet the constraints of 23 CFR 771.117 (e)(1-6).

A temporary bridge will be built to the north of the existing, traffic shifted, and then the existing bridge removed and replaced with a new bridge. The permanent and temporary alignments are illustrated in the attached Figure 2.

The typical section for the new bridge will be approximately 120 feet long and include two 12-foot lanes and two 3-foot offsets. The L-line design will be approximately 875 feet long and the temporary alignment approximately 1980 feet long.

*NOTE: The following Type I(C) Actions (NCDOT-FHWA 2019 CE Agreement, Appendix A) only require completion of Sections A through D to substantiate and document the CE classification: 1, 5, 8 (signs and pavement markings only), 11, 13, 14, 15, 16, 17, 19, and 20; or several other Type I Action subcategories identified in past NCDOT-FHWA CE Programmatic Agreements (see Appendix D). **Pre-approval as a CE does not exempt activities from compliance with other federal environmental laws.***

E. Special Project Information:

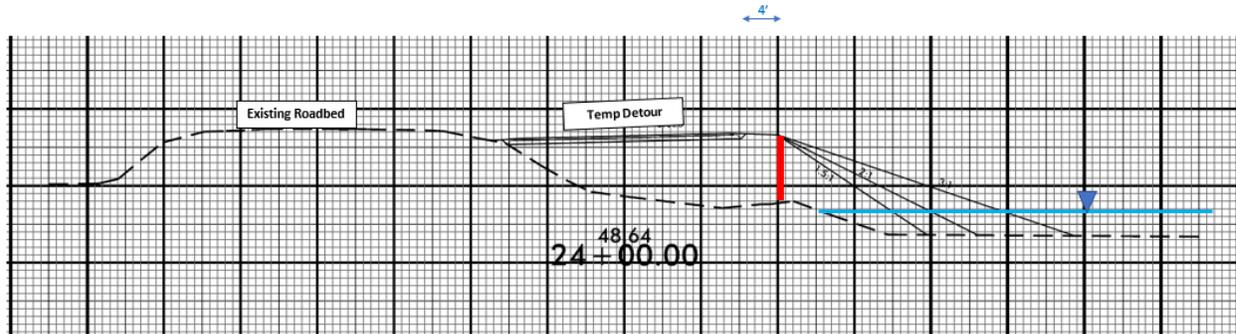
An onsite detour is required because of the lack of an acceptable offsite detour. Because of the type and design speed of the facility, introducing an S-curve with a new alignment was not acceptable. Therefore, replacing the bridge on the existing location with either an onsite detour to the north or an onsite detour south were considered.

The analysis included steepening slopes as much as possible and the possible use of sheet piles on the north alternative to minimize impacts to Great Coharie Swamp. The impacts listed in the table below are also shown in the attached pdf. The wetland impacts are based on buffering the slope stakes by 15 feet which may possibly be reduced as the design progresses.

Alternative	Permanent Impacts (ac)	Temporary Impacts (ac)
Onsite Detour North (ODN)	0.13	0.25
Onsite Detour South (ODS)	0.13	0.05

ODS clearly has the lower impacts, because it avoids the larger wetland area on the north. However, despite tightening the curves and steepening slopes we cannot avoid the Great Coharie Swamp with a slope (see below). There is also concern that constructing sheet piles would destabilize the currently stable streambank. The existing trees, and possibly their root mats, would have to be removed in order to install the sheet piles, thereby weakening the banks of the river. In addition, the sheet piles would need to be placed just behind the top of bank and would be only 4' away from the edge of the detour temporary pavement, which is too close for driver safety.

Onsite Detour South (ODS) Cross Section



Given this situation, NCDOT coordinated with the US Army Corps of Engineers who agrees that the onsite detour to the north to be the LEDPA based on sheet piles being impractical due to safety, and also the additional impacts to Great Coharie Swamp.

F. Project Impact Criteria Checklists:

F2. Ground Disturbing Actions – Type I (Appendix A) & Type II (Appendix B)			
<p>Proposed improvement(s) that fit Type I Actions (NCDOT-FHWA CE Programmatic Agreement, Appendix A) including 2, 3, 6, 7, 9, 12, 18, 21, 22 (ground disturbing), 23, 24, 25, 26, 27, 28, &/or 30; &/or Type II Actions (NCDOT-FHWA CE Programmatic Agreement, Appendix B) answer the project impact threshold questions (below) and questions 8 – 31.</p> <ul style="list-style-type: none"> • If any question 1-7 is checked “Yes” then NCDOT certification for FHWA approval is required. • If any question 8-31 is checked “Yes” then additional information will be required for those questions in Section G. 			
PROJECT IMPACT THRESHOLDS (FHWA signature required if any of the questions 1-7 are marked “Yes”.)		Yes	No
1	Does the project require formal consultation with U.S. Fish and Wildlife Service (USFWS) or National Marine Fisheries Service (NMFS)? Source: NRTR	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	Does the project result in impacts subject to the conditions of the Bald and Golden Eagle Protection Act (BGEPA)? Source: NRTR	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	Does the project generate substantial controversy or public opposition, for any reason, following appropriate public involvement? Land Owner Notification Letters resulted in no response. Division has indicated no further public involvement is required.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4	Does the project cause disproportionately high and adverse impacts relative to low-income and/or minority populations? Source: Direct and Indirect Screening Tool	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5	Does the project involve a residential or commercial displacement, or a substantial amount of right of way acquisition? No relocatees are anticipated.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	Does the project require an Individual Section 4(f) approval? No 4(f) resources are present within the project study area.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7	Does the project include adverse effects that cannot be resolved with a Memorandum of Agreement (MOA) under Section 106 of the National Historic Preservation Act (NHPA) or have an adverse effect on a National Historic Landmark (NHL)? No 106 resources are present in the project study area.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
If any question 8-31 is checked “Yes” then additional information will be required for those questions in Section G.			
Other Considerations		Yes	No
8	Is an Endangered Species Act (ESA) determination unresolved or is the project covered by a Programmatic Agreement under Section 7? Source: NRTR	<input type="checkbox"/>	<input checked="" type="checkbox"/>
9	Is the project located in anadromous fish spawning waters? Source: NRTR	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10	Does the project impact waters classified as Outstanding Resource Water (ORW), High Quality Water (HQW), Water Supply Watershed Critical Areas, 303(d) listed impaired water bodies, buffer rules, or Submerged Aquatic Vegetation (SAV)? Source: NRTR	<input type="checkbox"/>	<input checked="" type="checkbox"/>
11	Does the project impact Waters of the United States in any of the designated mountain trout streams? Not in a trout county.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
12	Does the project require a U.S. Army Corps of Engineers (USACE) Individual Section 404 Permit? The impacts are below the limits for an individual permit.	<input type="checkbox"/>	<input checked="" type="checkbox"/>

13	Will the project require an easement from a Federal Energy Regulatory Commission (FERC) licensed facility? There are no FERC facilities within the vicinity of the project.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<u>Other Considerations for Type I and II Ground Disturbing Actions (continued)</u>		Yes	No
14	Does the project include a Section 106 of the National Historic Preservation Act (NHPA) effects determination other than a No Effect, including archaeological remains? Source: No Archeological Survey Form	<input type="checkbox"/>	<input checked="" type="checkbox"/>
15	Does the project involve GeoEnvironmental Sites of Concerns such as gas stations, dry cleaners, landfills, etc.? GeoEnv PreScoping Report	<input type="checkbox"/>	<input checked="" type="checkbox"/>
16	Does the project require work encroaching and adversely affecting a regulatory floodway or work affecting the base floodplain (100-year flood) elevations of a water course or lake, pursuant to Executive Order 11988 and 23 CFR 650 subpart A? See comments in Section G below.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
17	Is the project in a Coastal Area Management Act (CAMA) county and substantially affects the coastal zone and/or any Area of Environmental Concern (AEC)? This project is not in a CAMA county.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
18	Does the project require a U.S. Coast Guard (USCG) permit? FHWA sent No Permit Required documentation on 9/04/19 to USCG	<input type="checkbox"/>	<input checked="" type="checkbox"/>
19	Does the project involve construction activities in, across, or adjacent to a designated Wild and Scenic River present within the project area? There are no Wild & Scenic Rivers in the vicinity of this project.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
20	Does the project involve Coastal Barrier Resources Act (CBRA) resources? There are no CBRA resources in the vicinity of this project.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
21	Does the project impact federal lands (e.g. U.S. Forest Service (USFS), USFWS, etc.) or Tribal Lands? There are no federal or Tribal Lands within the study area	<input type="checkbox"/>	<input checked="" type="checkbox"/>
22	Does the project involve any changes in access control or the modification or construction of an interchange on an interstate? No interstates are in vicinity	<input type="checkbox"/>	<input checked="" type="checkbox"/>
23	Does the project have a permanent adverse effect on local traffic patterns or community cohesiveness? Traffic will be maintained onsite during construction and so there are no permanent or temporary impacts to cohesiveness.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
24	Will maintenance of traffic cause substantial disruption? No because Onsite Detour	<input type="checkbox"/>	<input checked="" type="checkbox"/>
25	Is the project inconsistent with the STIP, and where applicable, the Metropolitan Planning Organization's (MPO's) Transportation Improvement Program (TIP)? N/A See comment in Section G below.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
26	Does the project require the acquisition of lands under the protection of Section 6(f) of the Land and Water Conservation Act, the Federal Aid in Fish Restoration Act, the Federal Aid in Wildlife Restoration Act, Tennessee Valley Authority (TVA), Tribal Lands, or other unique areas or special lands that were acquired in fee or easement with public-use money and have deed restrictions or covenants on the property? No public lands associated with this project. Source – Final Survey.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
27	Does the project involve Federal Emergency Management Agency (FEMA) buyout properties under the Hazard Mitigation Grant Program (HMGP)? There is no FEMA or HMGP property associated with this project. Source – Final Survey	<input type="checkbox"/>	<input checked="" type="checkbox"/>
28	Does the project include a <i>de minimis</i> or programmatic Section 4(f)? There are no 4(f) resources in the project limits.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
29	Is the project considered a Type I under the NCDOT Noise Policy? The project does not add lanes or move traffic closer to receivers.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
30	Is there prime or important farmland soil impacted by this project as defined by the Farmland Protection Policy Act (FPPA)? Source: Direct Indirect Screening Tool	<input type="checkbox"/>	<input checked="" type="checkbox"/>
31	Are there other issues that arose during the project development process that affected the project decision?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

G. Additional Documentation as Required from Section F (ONLY for questions marked 'Yes'):

Response to Question 1:

The USFWS has developed a programmatic biological opinion (PBO) in conjunction with the Federal Highway Administration (FHWA), the USACE, and NCDOT for the northern long-eared bat (NLEB) in eastern North Carolina. The PBO covers the entire NCDOT program in Divisions 1-8, including all NCDOT projects and activities. The programmatic determination for NLEB for the NCDOT program is "May Affect, Likely to Adversely Affect". The PBO provides incidental take coverage for NLEB and will ensure compliance with Section 7 of the Endangered Species Act for five years for all NCDOT projects with a federal nexus in Divisions 1-8, which includes Sampson County, where STIP BR-0046 is located. This level of incidental take is authorized from the effective date of a final listing determination through April 30, 2020.

Response to Question 16:

The project will impact the 100-year floodplain and likely in a beneficial way which would be handled under the floodplain memorandum of agreement with FEMA.

Response to Question 25:

N/A - This project is being replaced with state funds in the state's bridge program and is not consequently found in the STIP. A CE is being used at the direction of NCDOT and with permission from FHWA with the understanding that should federal funds be applied, the project would be programmed in the STIP at that time.

H. Project Commitments (attach as Green Sheet to CE Form):

NCDOT PROJECT COMMITMENTS

STIP Project No. **BR-0046**
Replace Bridge No. 22 on US 701 over Bills Swamp
Sampson County
Federal Aid Project No. N/A
WBS Element 67046.1.1

NC Floodplain Mapping Program – Hydraulics Unit

The Hydraulics Unit will coordinate with the NC Floodplain Mapping Program (FMP) to determine status of project with regard to applicability of NCDOT's Memorandum of Agreement, or approval of a Conditional Letter of Map Revision (CLOMR)* and subsequent final Letter of Map Revision (LOMR).

100 Year Floodplain – Division 11

This project involves construction activities on or adjacent to FEMA-regulated stream(s). Therefore, the Division shall submit sealed As-built construction plans to the Hydraulics Unit upon completion of structure construction, certifying that the drainage structure(s) and roadway embankment that are located within the 100-year floodplain were built as shown in the construction plans, both horizontally and vertically.

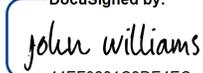
I. Categorical Exclusion Approval:

STIP Project No.	<u>BR-0046</u>
WBS Element	<u>67046.1.1</u>
Federal Project No.	<u>N/A</u>

Prepared By:

3/18/2020

Date

DocuSigned by:

44EF0281C9DE4EC...
 John Williams, Project Manager
 RK&K

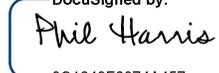
Prepared For:

Gordon Cashin, NCDOT

Reviewed By:

4/2/2020

Date

DocuSigned by:

8C16A3E6874A457
 Phillip S. Harris, III, P.E., Unit Head
 NCDOT Environmental Analysis Unit



Approved

- If NO grey boxes are checked in Section F (pages 2 and 3), NCDOT approves the Type I or Type II Categorical Exclusion.

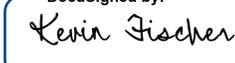


Certified

- If ANY grey boxes are checked in Section F (pages 2 and 3), NCDOT certifies the Type I or Type II Categorical Exclusion for FHWA approval.
- If classified as Type III Categorical Exclusion.

4/6/2020

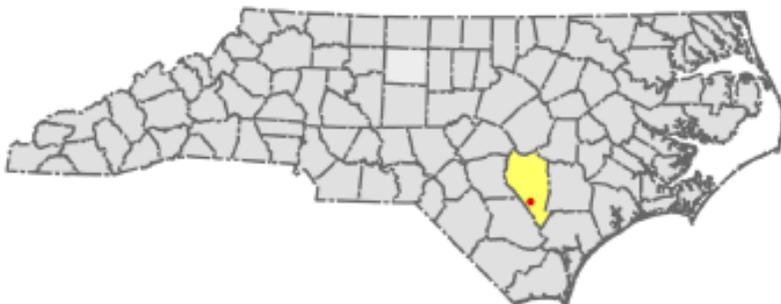
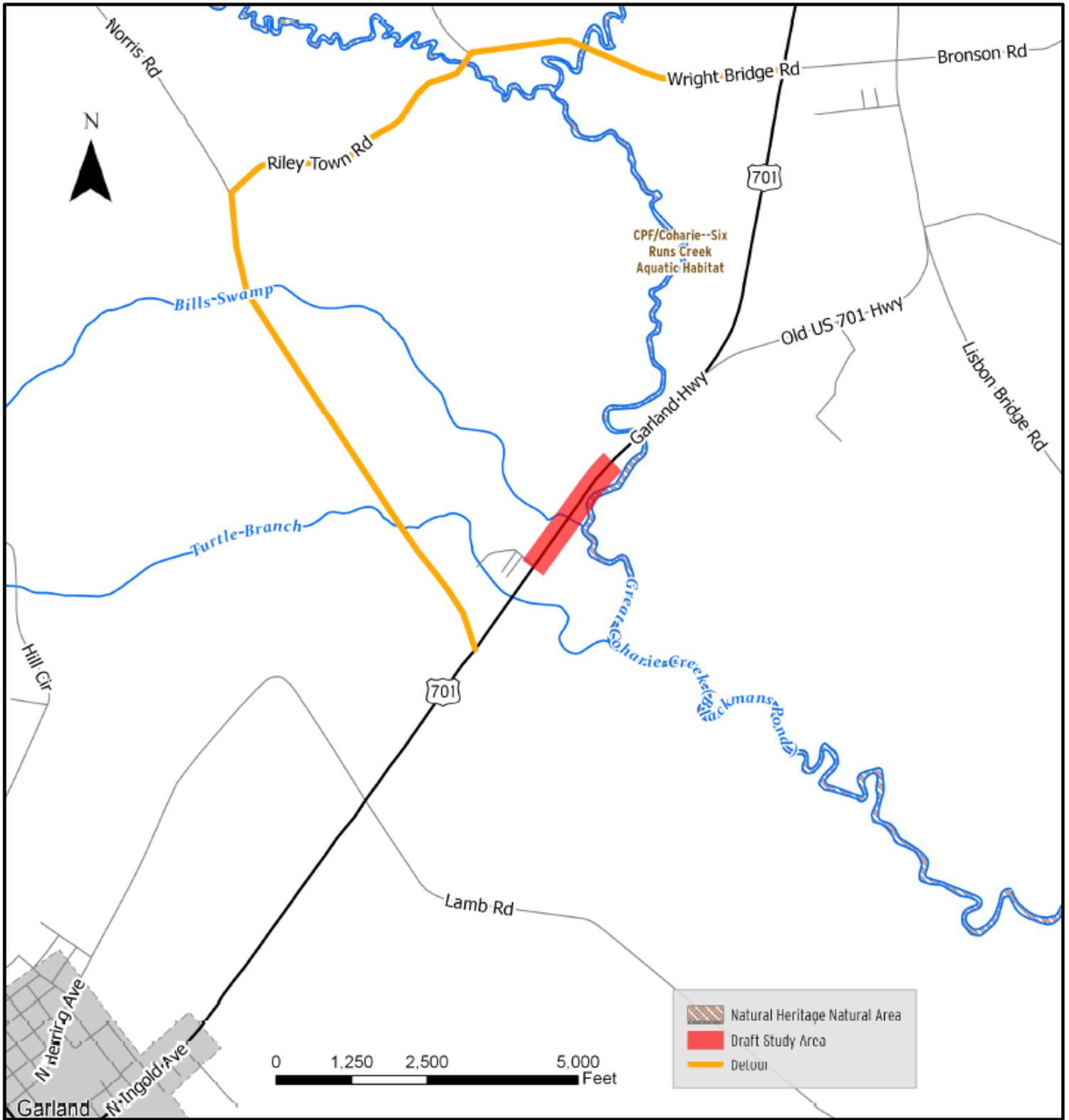
Date

DocuSigned by:

ED19A12D96EC496...
 Kevin Fischer, P.E., Assistant State Structures Engineer
 PEF Coordination, Program Manager and Field Operations
 Structures Management Unit, NCDOT

FHWA Approved: For Projects Certified by NCDOT (above), FHWA signature required.

Date Not Applicable
 for John F. Sullivan, III, PE, Division Administrator
 Federal Highway Administration

Note: Prior to ROW or Construction authorization, a consultation may be required (please see Section VII of the NCDOT-FHWA CE Programmatic Agreement for more details).



	<p>STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION 3</p>
<p align="center">BR-0046 REPLACE SAMPSON CO. BRIDGE NO. 22 On US 701 over Billa's Swamp Creek</p>	
<p>Project Location Map</p>	<p>Figure 1</p>

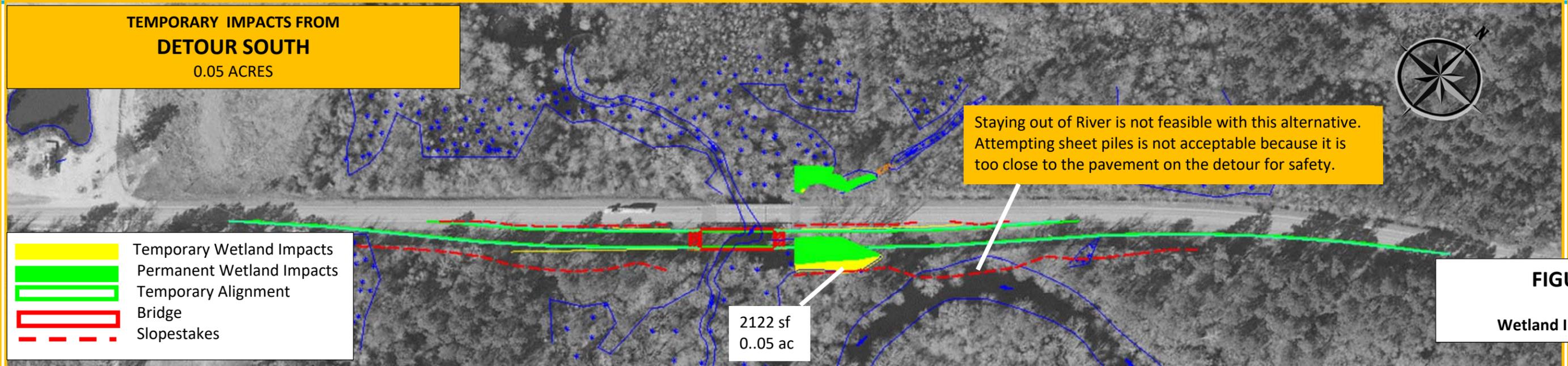
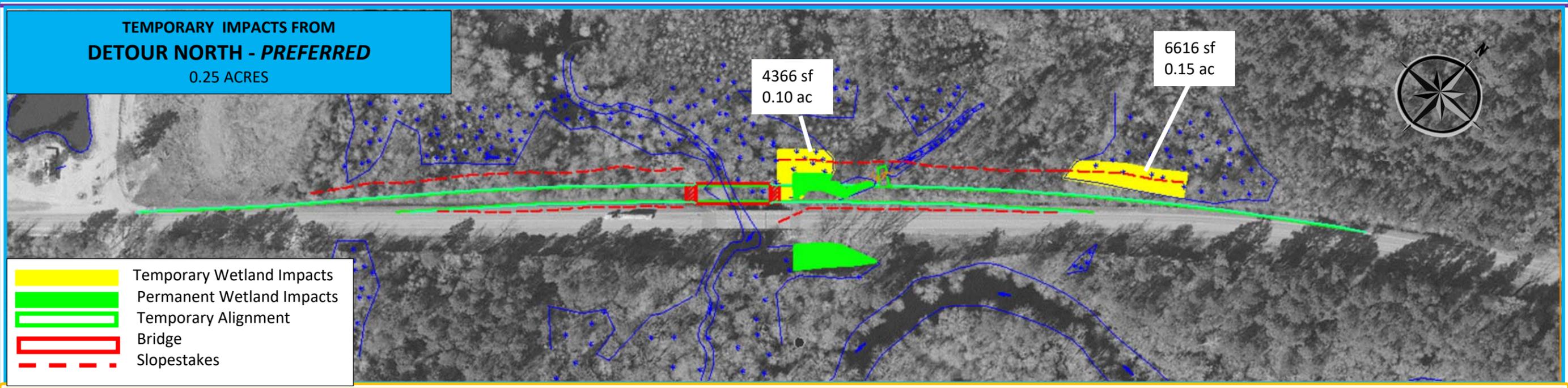
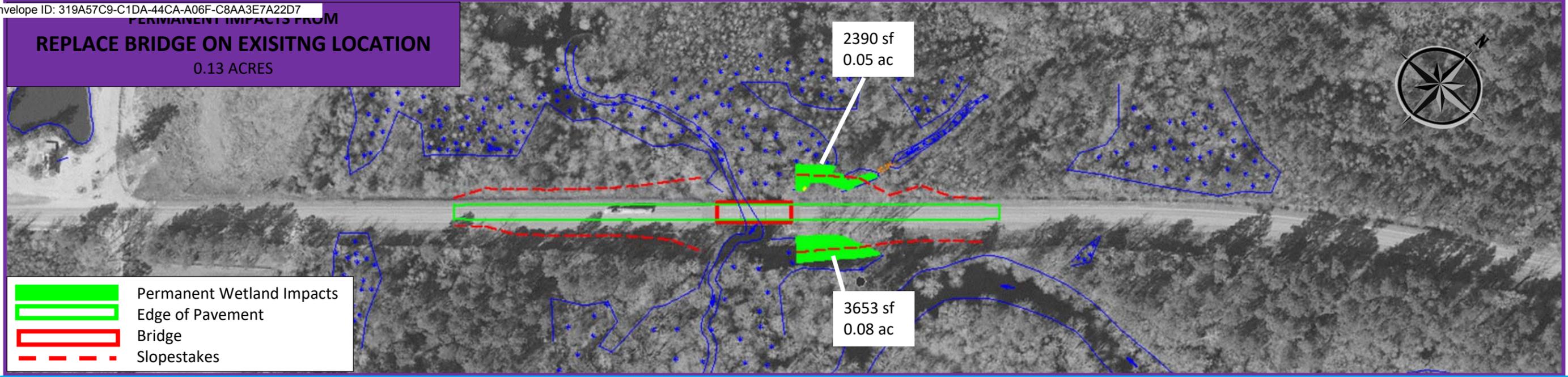


FIGURE 2
Design
Wetland Impacts