



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.

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

Onslow

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-5652

WBS # *

45607.1.1

(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

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

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

*

For the record only for DWR 401 Certification:

☐ Yes ☒ No

For the record only for Corps Permit:

☐ Yes ☒ No

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

☐ Yes ☒ No

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

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

☒ Yes ☐ No

Acceptance Letter Attachment

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

DMS Accept_B-5652.pdf

277.35KB

FILE TYPE MUST BE PDF

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

☒ Yes ☐ No

1i. Is the project located within a NC DCM Area of Environmental Concern (AEC)? *

☐ Yes ☒ No ☐ Unknown

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? *

NC DOT

1b. Primary Contact Email: *

driffey@ncdot.gov

1c. Primary Contact Phone: *

(xxx)xxx-xxxx

(919)707-6151

1d. Who is applying for the permit? *

☒ Owner

(Check all that apply)

☐ Applicant (other than owner)

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

☐ Yes ☒ No

2. Owner Information

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

Multiple Properties

2b. Deed book and page no.:

2c. Contact Person:

(for Corporations)

2d. Address *

Street Address

1598 Mail Service Center

Address Line 2

City

Raleigh

Postal / Zip Code

27699-1598

State / Province / Region

NC

Country

USA

2e. Telephone Number: *

(xxx)xxx-xxxx

(919)707-6000

2f. Fax Number:

(xxx)xxx-xxxx

2g. Email Address: *

pharris@ncdot.gov

C. Project Information and Prior Project History

1. Project Information



1a. Name of project: *

Replacement of Bridge No.33 on US17 NB Lane over Wolf Swamp

1b. Subdivision name:

(if appropriate)

1c. Nearest municipality / town: *

Jacksonville

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: *

34.797935

ex: 34.208504

Longitude: *

-77.364260

-77.796371

3. Surface Waters

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

Wolf Swamp

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

C:NSW

[Surface Water Lookup](#)

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

White Oak

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

030203020201

[River Basin Lookup](#)

4. Project Description and History

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

Bridge 33 was built in 1923 . Bridge 33 is approximately 96 feet in length and has 3 spans.

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

1.2

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

(intermittent and perennial)

557

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

Based on the low sufficiency of rating 44.62 out of 100, the on-going need for maintenance and its functional obsolescence, the 96-year-old bridge is considered at the end of its useful life and in need of replacement.

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

The proposed replacement of the northbound Bridge No. 33 on US 17 over Wolf Swamp will be on existing alignment. Traffic will be detoured onsite during construction.

Proposed replacement Bridge 33 will be a single-span bridge approximately 100 feet long with two 12-foot lanes and 4-foot paved shoulders on both sides of the bridge providing a 32-foot width. The proposed improvements to the approach roadway will extend approximately 730 feet from the southwest end of the new bridge and 730 feet from the northeast end of the 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-2017-00490

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

Name (if known): Greg Price
Agency/Consultant Company: Carolina Ecosystem
Other:

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

April 24, 2017

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.

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 *
1	Road fill	P	Bottomland Hardwood Forest	WD	Yes	Both	0.230 (acres)
1	Ditch-Excavation	P	Bottomland Hardwood Forest	WD	Yes	Both	0.040 (acres)
1	Road fill- Hand Clr	T	Bottomland Hardwood Forest	WD	Yes	Both	0.025 (acres)
2	Ditch-Mech Clr	P	Bottomland Hardwood Forest	WE	Yes	Both	0.003 (acres)
5	Pipe outlet	P	Bottomland Hardwood Forest	WE	Yes	Both	0.010 (acres)

2g. Total Temporary Wetland Impact

0.025

2g. Total Permanent Wetland Impact

0.283

2g. Total Wetland Impact

0.308

2i. Comments:

There will be 0.01 acre of temporary fill in hand clearing areas for erosion control measures

3. Stream Impacts

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

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

	3a. Reason for impact [*] (?)	3b. Impact type [*]	3c. Type of impact [*]	3d. S. name [*]	3e. Stream Type [*] (?)	3f. Type of Jurisdiction [*]	3g. S. width [*]	3h. Impact length [*]
S1	Riprap- Scour hole	Permanent	Rip Rap Fill	Wolf Swamp	Perennial	Both	15 <small>Average (feet)</small>	24 <small>(linear feet)</small>
S2	Riprap - Scour hole	Temporary	Rip Rap Fill	Wolf Swamp	Perennial	Both	15 <small>Average (feet)</small>	10 <small>(linear feet)</small>
S3	Bank Stabilization	Permanent	Bank Stabilization	Wolf Swamp	Perennial	Both	15 <small>Average (feet)</small>	25 <small>(linear feet)</small>
S4	Ditch Outlet	Temporary	Other	Wolf Swamp	Perennial	Both	15 <small>Average (feet)</small>	32 <small>(linear feet)</small>

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

3i. Total jurisdictional ditch impact in square feet:

0

3i. Total permanent stream impacts:

49

3i. Total temporary stream impacts:

42

3i. Total stream and ditch impacts:

91

3j. Comments:

E. Impact Justification and Mitigation

1. Avoidance and Minimization

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

Measures discussed to minimize: A core-slab bridge and a reinforced concrete box culvert (extension) were discussed. Extending the existing culvert was rejected since the existing upstream culvert is perched several feet above the stream bed on both the upstream and downstream sides. The existing structure will be replaced with a bridge. A temporary on-site detour will be constructed to the east of the existing lanes. Due to the traffic volumes, no local routes are suitable as an off-site detour.

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

Existing drainage patterns have been maintained to the extent practical, and rip rap will be used at all drainage outlets to dissipate energy and reduce erosion. The proposed bridge spans the entire stream and will not have deck drains. Roadway side slopes have been specified as 3:1 in wetland areas to minimize impacts.

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)

24

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

warm

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)

0.29

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:

The White Oak River basin currently does not have riparian buffer rules.

2. Stormwater Management Plan

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

☒ Yes ☐ No

Comments:

G. Supplementary Information

1. Environmental Documentation

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

☒ Yes ☐ No

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

☒ Yes ☐ No

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

☐ Yes ☒ No

Comments: *

Type I Categorical Exclusions do not require submittal to the State Clearing House

2. Violations (DWR Requirement)

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

☐ Yes ☒ No

3. Cumulative Impacts (DWR Requirement)

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

☐ Yes ☒ No

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

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

4. Sewage Disposal (DWR Requirement)

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

☐ Yes ☒ No ☐ N/A

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

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

☒ Yes ☐ No

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

☒ Yes ☐ No

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

Raleigh

5d. Is another Federal agency involved? *

☐ Yes ☒ No ☐ Unknown

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

☒ Yes ☐ No

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

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

6. Essential Fish Habitat (Corps Requirement)

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

☐ Yes ☒ No

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

NOAA EFH Fish Mapper

7. Historic or Prehistoric Cultural Resources (Corps Requirement)

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

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

☐ Yes ☒ No

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

Historic Architecture and Landscapes No Survey Required Form (2/23/2022) and No National Register of Historic Places Eligible or List Archaeological Sites Present Form (2/2/2016)

8. Flood Zone Designation (Corps Requirement)

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

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

☒ Yes ☐ No

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

NCDOT Hydraulics Unit coordination with FEMA

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

Flood Insurance Rate Mapper (FIRM) and Categorical Exclusion Document

Miscellaneous

Comments

The Programmatic Biological Opinion (PBO) will be used for the Northern long-eared bat. Only four of the seventeen species listed by USFWS Information Planning and Consultation System (IPaC) has identified habitat in the project area. Habitat does exist in the project study area for Cooley's meadowrue, golden sedge, pond berry, and rough-leaved loosestrife. Last habitat surveys were done in March 2022 for Cooley's meadowrue and June 2022 for the other three species. No individual species for these four plants were located during the surveys and the biological conclusion remains No Effect.

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

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

B-5652_Permit Drawings.pdf

12.95MB

File must be PDF or KMZ

Signature

*

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

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

Full Name: *

Mack Christopher Rivenbark III

Signature *

A handwritten signature in black ink that reads "Mack C. Rivenbark, III". The signature is written in a cursive style with a clear, legible font.

Date

8/22/2022

ROY COOPER

Governor

ELIZABETH S. BISER

Secretary

MARC RECKTENWALD

Director



NORTH CAROLINA
Environmental Quality

August 4, 2022

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

Dear Mr. Harris:

Subject: Mitigation Acceptance Letter:

B-5652, Replace Bridge 33 over Wolf Swamp on US 17 (Northbound Lane), Onslow 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 August 4, 2022, the impacts are located in CU 03030001 of the White Oak River basin in the Southern Outer Coastal Plain (SOCP) Eco-Region, and are as follows:

White Oak 03030001	Stream			Wetlands			Buffer (Sq. Ft.)	
	Cold	Cool	Warm	Riparian	Non-Riparian	Coastal Marsh	Zone 1	Zone 2
Impacts (feet/acres)	0	0	24.000	0.290	0	0	0	0

The impacts and associated mitigation needs were not projected by the NCDOT in the 2022 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,

Elizabeth Harmon

for James B. Stanfill
DMS Deputy Director

cc: Mr. Monte Matthews, USACE – Raleigh
Ms. Amy Chapman, NCDWR
Mr. Brad Chilton, NCDOT – EAU
File: B-5652



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



North Carolina Department of Transportation

Highway Stormwater Program
STORMWATER MANAGEMENT PLAN

FOR NCDOT PROJECTS



(Version 3.00; Released August 2021)

WBS Element: 45607.1.1 TIP/Proj No: B-5652 County(ies): Onslow Page 1 of 2

General Project Information



WBS Element:	45607.1.1	TIP Number:	B-5652	Project Type:	Bridge Replacement	Date:	11/16/2021
NCDOT Contact:	Jacquelyn Bowles, PE			Contractor / Designer:	Sungate Design Group, P.A./Josh Dalton, PE		
Address:	1000 Birch Drive Raleigh, NC 27610			Address:	905 Jones Franklin Road Raleigh, NC 27606		
	Phone: 919-707-6559				Phone: 919-859-2243		
	Email: jkbowles@ncdot.gov				Email: jdalton@sungatedesign.com		
City/Town:	Jacksonville			County(ies):	Onslow		
River Basin(s):	White Oak			CAMA County?	Yes		
Wetlands within Project Limits?	Yes						

Project Description

Project Length (lin. miles or feet):	0.374 miles	Surrounding Land Use:	Swamp, Agricultural
Proposed Project		Existing Site	
Project Built-Upon Area (ac.)	1.6 ac.		1.5 ac.
Typical Cross Section Description:	Paved 12' lanes with 6' (LT) and 8' shoulder (11' shoulder with GR) (RT), 4' paved both LT and RT.		
Annual Avg Daily Traffic (veh/hr/day):	Design/Future: 22,300	Year: 2040	Existing: 16,300 Year: 2020

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

NCDOT Highway Division 3 proposes to replace Bridge #033 on northbound US 17 over Wolf Swamp. The existing structure is 3@32' concrete girder on concrete vertical abutments with a concrete deck. The proposed structure is 1@100' prestressed concrete girder bridge with 4' end bent caps. Existing drainage patterns have been maintained to the extent practical, and rip rap will be used at all drainage outlets to dissipate energy and reduce erosion. The proposed bridge spans the entire stream and will not have deck drains. Roadway side slopes have been specified as 3:1 in wetland areas to minimize impacts.

 <div style="text-align: center;"> North Carolina Department of Transportation Highway Stormwater Program STORMWATER MANAGEMENT PLAN FOR NCDOT PROJECTS </div> 									
(Version 3.00; Released August 2021)									
WBS Element: 45607.1.1		TIP/Proj No.: B-5652		County(ies): Onslow		Page 2 of 2			
General Project Information									
Waterbody Information									
Surface Water Body (1):		Wolf Swamp		NCDWR Stream Index No.:		19-16-1			
NCDWR Surface Water Classification for Water Body		Primary Classification:		Class C					
		Supplemental Classification:		Nutrient Sensitive Waters (NSW)					
Other Stream Classification:		None							
Impairments:		None							
Aquatic T&E Species?				Comments:					
NRTR Stream ID:						Buffer Rules in Effect:		N/A	
Project Includes Bridge Spanning Water Body?		Yes		Deck Drains Discharge Over Buffer?		N/A		Dissipator Pads Provided in Buffer?	
Deck Drains Discharge Over Water Body?		No		(If yes, provide justification in the General Project Narrative)		(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)			
		(If yes, provide justification in the General Project Narrative)							
Waterbody Information									
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)							
Waterbody Information									
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)							

Submitted 8/22/2022

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

ONSLOW COUNTY

LOCATION: BRIDGE NO. 33 OVER WOLF SWAMP
ON US 17

TYPE OF WORK: GRADING, PAVING, DRAINAGE AND STRUCTURE

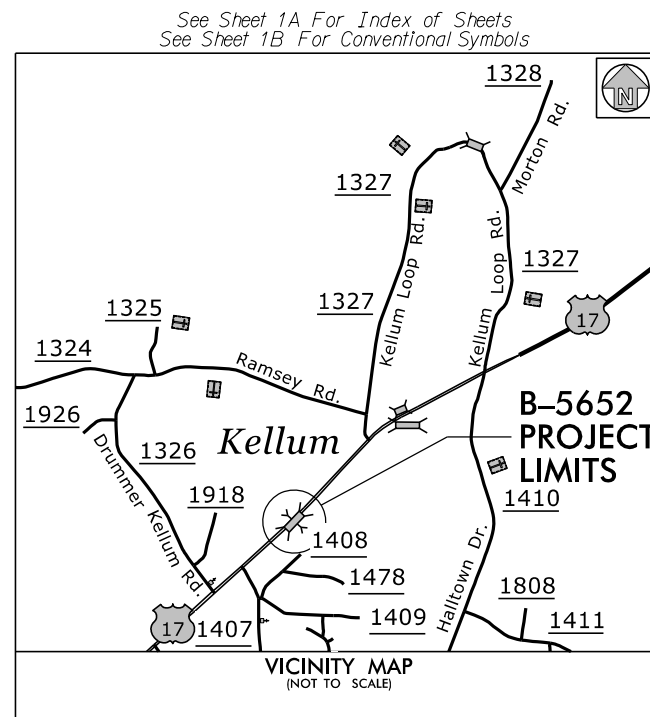
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5652	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
45607.1.1		P.E.	
45607.2.1		RW, UTL	
45607.3.1		CONST.	

PERMIT DRAWING
SHEET 1 OF 11

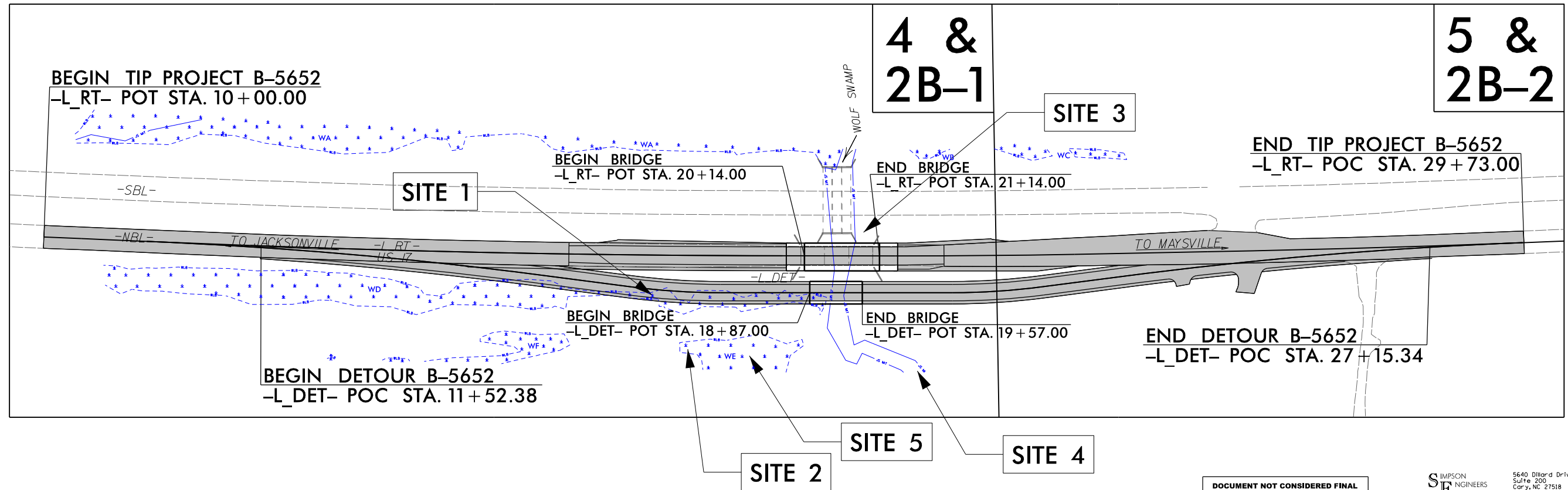
DATE: 05-26-22



PROJECT: B-5652



WETLAND AND SURFACE WATER IMPACTS PERMIT

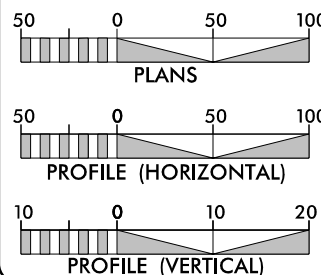


CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY MODIFIED METHOD III.
THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

SIMPSON
ENGINEERS
& ASSOCIATES
5640 Dilford Drive
Suite 200
Cary, NC 27518
(919) 852-0468
(919) 852-0598 (Fax)
www.simpsonengr.com
LICENSE NO. C-2521

GRAPHIC SCALES



DESIGN DATA

ADT 2022 = 16,900
ADT 2040 = 22,300
K = 9 %
D = 55 %
T = 5 %*
V = 60 MPH
* TTST = 2% DUAL 3%
STATEWIDE TIER
FUNCTIONAL CLASS
ARTERIAL

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT = 0.355 MILES
LENGTH STRUCTURE TIP PROJECT = 0.019 MILES
TOTAL LENGTH TIP PROJECT = 0.374 MILES

PLANS PREPARED FOR NCDOT BY:

MOTT
MACDONALD
2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
NOVEMBER 22, 2021

LETTING DATE:
DECEMBER 12, 2022

SUNGATE DESIGN GROUP, P.A.

905 JONES FRANKLIN ROAD
RALEIGH, NORTH CAROLINA 27608
TEL (919) 859-2243
ENG FIRM LICENSE NO. C-490

MICHAEL PEKAREK, PE
PROJECT ENGINEER
PEF ENGINEER

JOSH DALTON, PE
HYDRAULIC ENGINEER
PEF ENGINEER

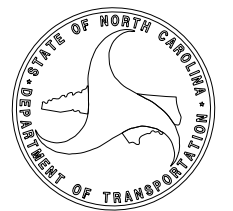
DAVID STUTTS, PE
NCDOT BRIDGE PROGRAM MANAGER

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN
ENGINEER

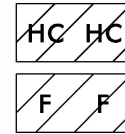
SIGNATURE: _____ P.E.



PERMIT DRAWING
SHEET 2 OF 11

DATE: 05-26-22

DETOUR

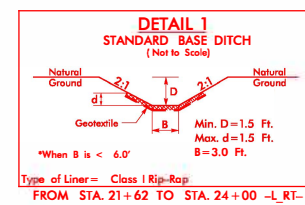
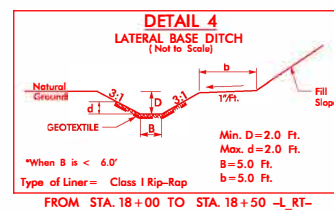
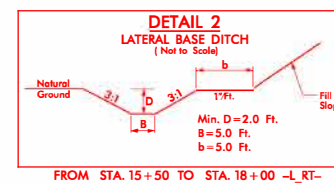
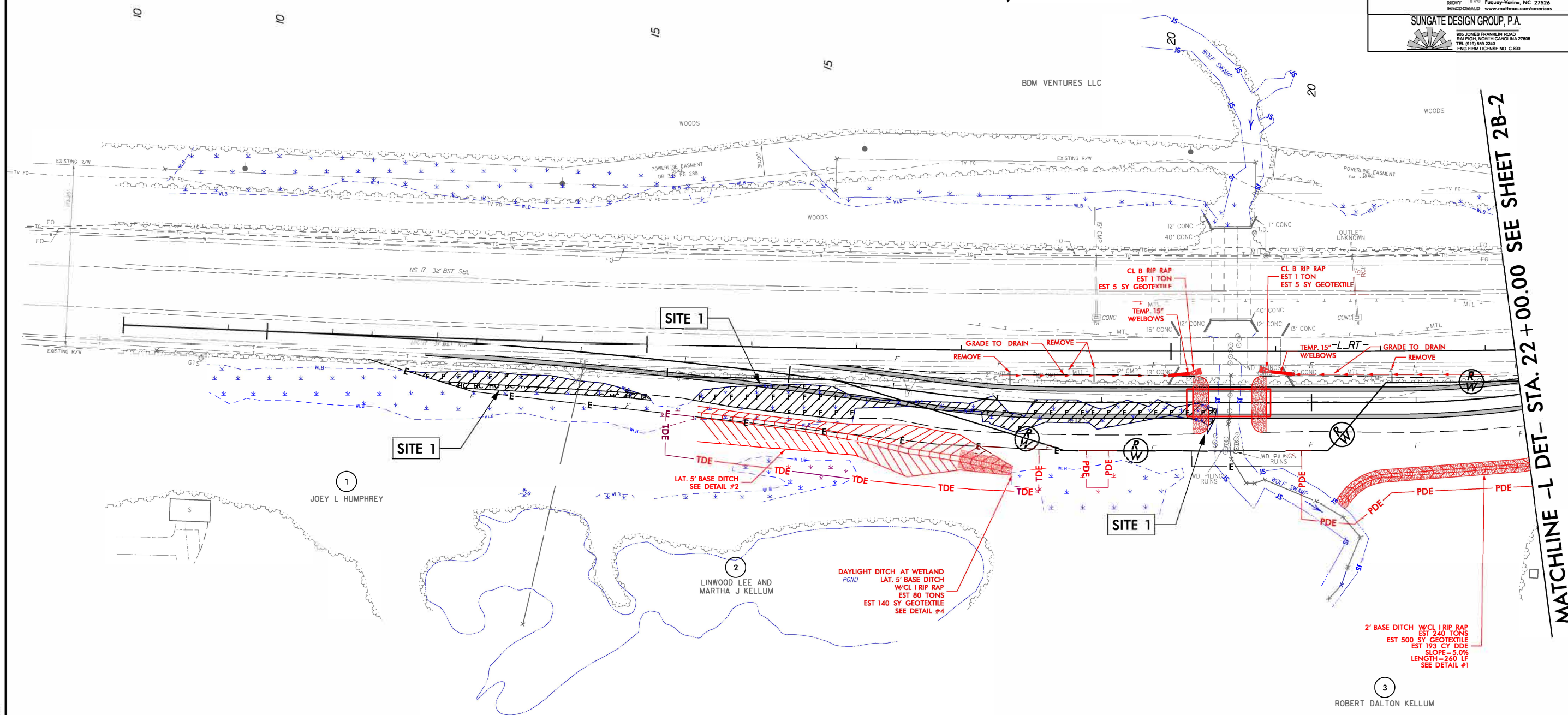


HAND CLEARING

FILL IN WETLAND



PROJECT REFERENCE NO. B-5652	SHEET NO. 2B-1
RW SHEET NO. ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of: M M 86077 RUSCD0900LD PO Box 700 Fuquay-Varina, NC 27526 www.mofmac.com/americas	
SUNGATE DESIGN GROUP, P.A. 205 JONES FRANKLIN ROAD RALEIGH, NORTH CAROLINA 27608 TEL 919 858-2243 ENG FIRM LICENSE NO. C-880	



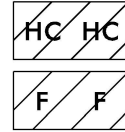
* NOTE: REMOVE ALL EXISTING
PILING RUINS AS PART OF
BRIDGE REMOVAL.

FOR -L_DET- PROFILE, SEE SHEET 7
FOR -L_RT- DESIGN, SEE SHEET 4 & 5

MATCHLINE -L_DET- STA. 22+00.00 SEE SHEET 2B-2

**PERMIT DRAWING
SHEET 3 OF 11**



DATE: 05-26-22

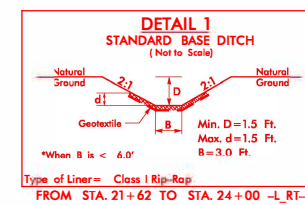
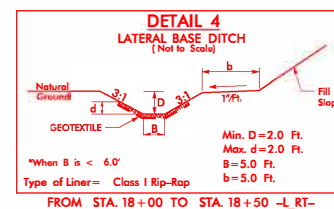
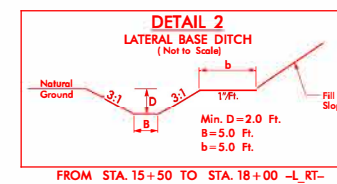
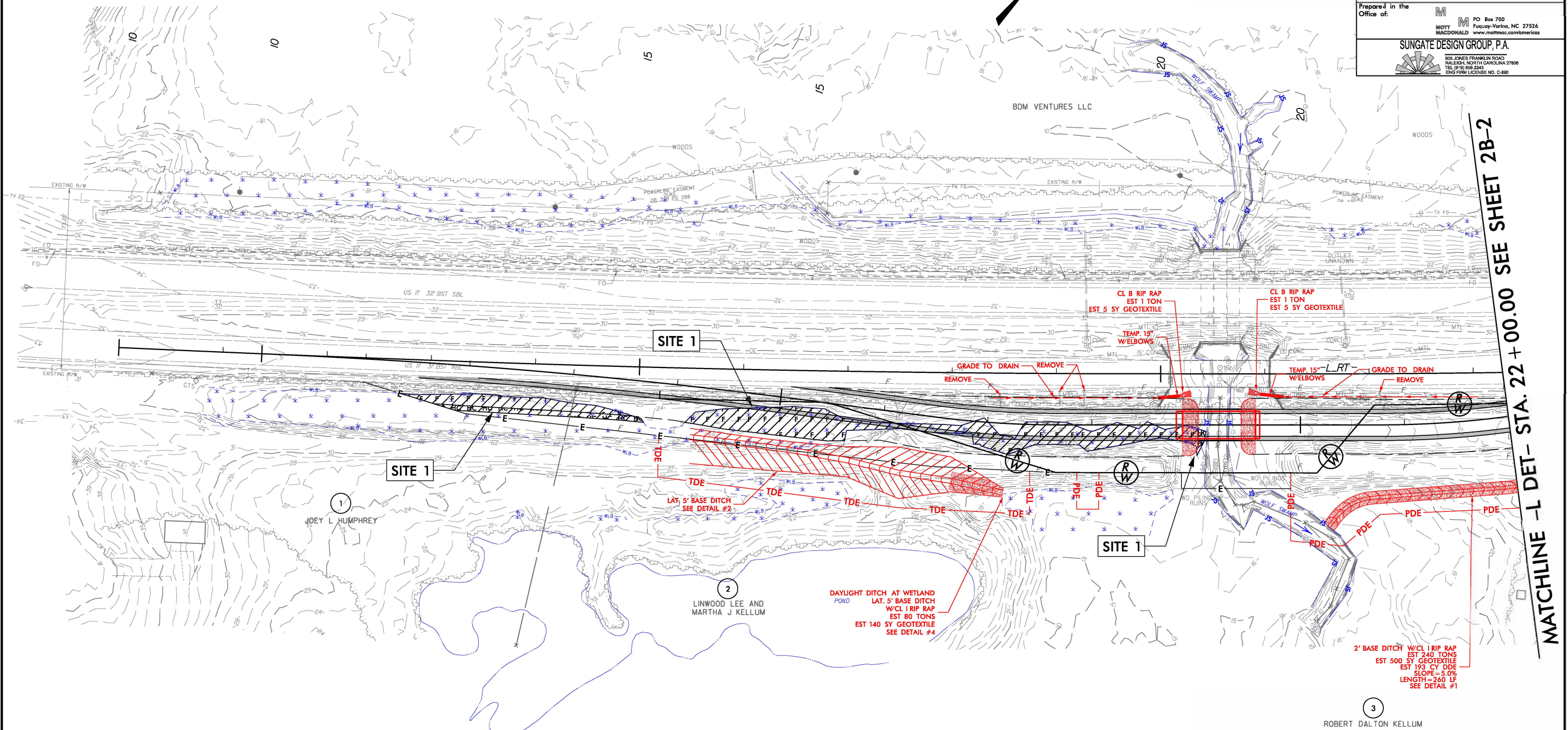


HAND CLEARING

FILL IN WETLAND

DETOUR

PROJECT REFERENCE NO. B-5652		SHEET NO. 2B-1	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
Prepared in the ice of:		 MOTT MACDONALD PO Box 700 Fuquay-Varina, NC 27526 TEL (919) 688-2243 www.mottmac.com/americas	
SUNGATE DESIGN GROUP, P.A. 		925 JONES FRANKLIN ROAD RALEIGH, NORTH CAROLINA 27609 TEL (919) 688-2243 ENG FIRM LICENSE NO. C-890	

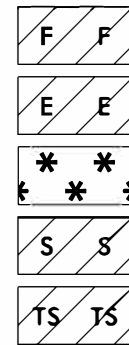


*** NOTE: REMOVE ALL EXISTING
PILING RUINS AS PART OF
BRIDGE REMOVAL.**

**FOR -L_DET- PROFILE, SEE SHEET 7
FOR -L_RT- DESIGN, SEE SHEET 4 & 5**

[illegible]

FOR -L_RT- PROFILE, SEE SHEET 6
FOR DETOUR DESIGN, SEE SHEETS 2B-1 & 2B-2



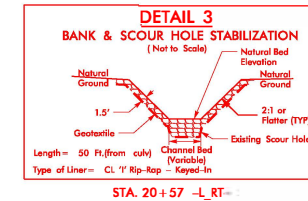
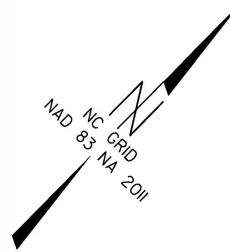
FILL IN WETLAND



WETLAND EXCAVATION

MECHANIZED CLEARING

SURFACE WATER IMPACTS TEMPORARY

SURFACE WATER IMPACTS

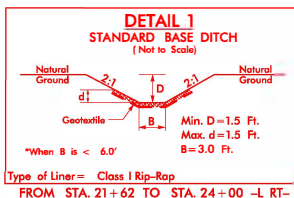
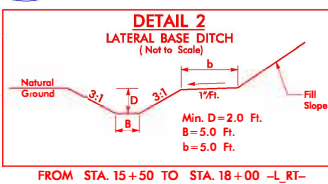
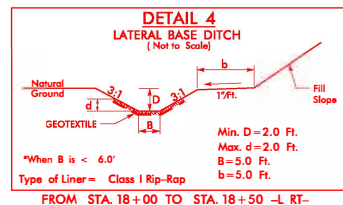
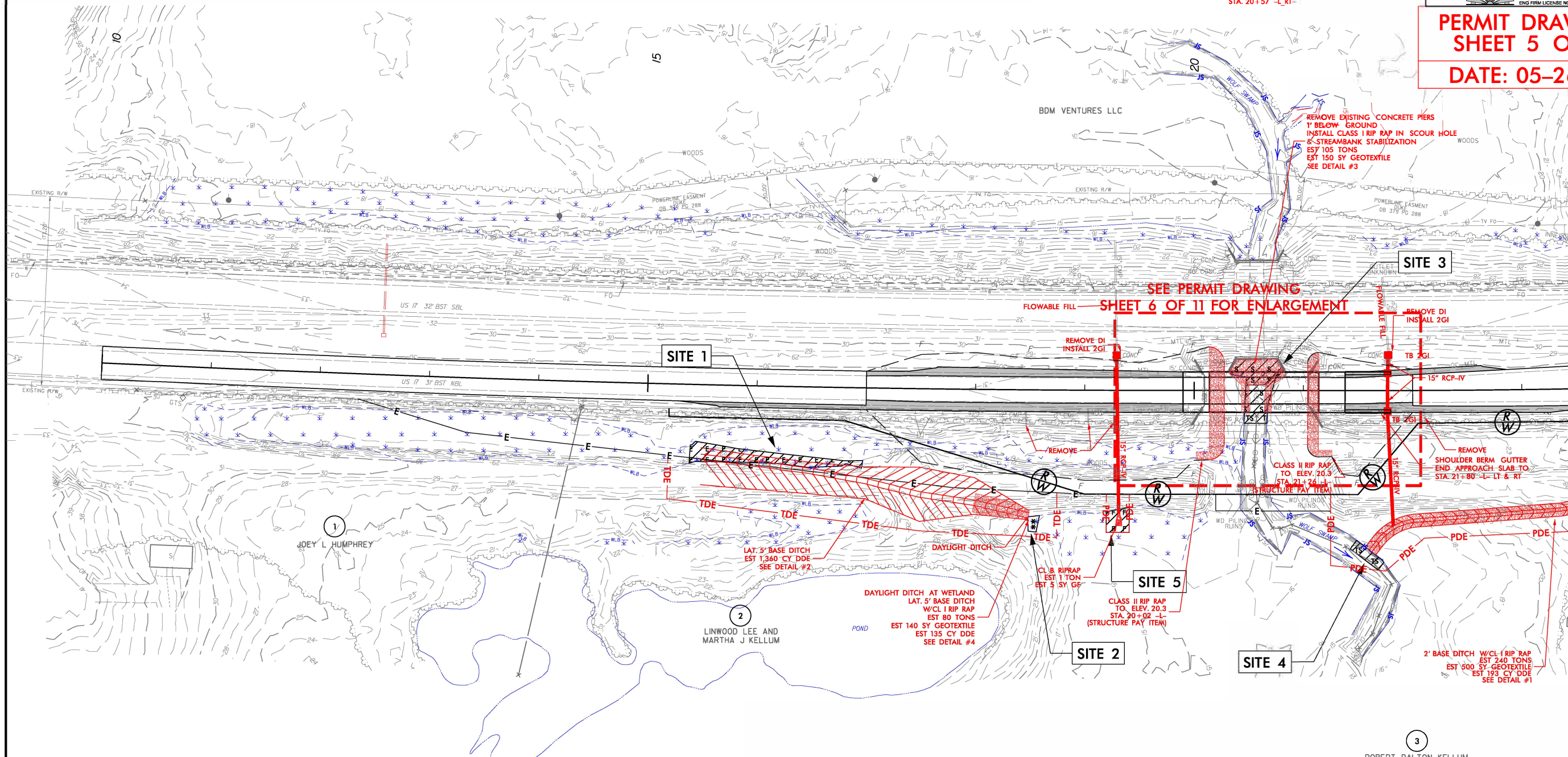


PROJECT REFERENCE NO. B-5652		SHEET NO. 4
RW SHEET NO.		
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		
Prepared in the Office of:		 MOTT MACDONALD
		PO Box 700 Fuquay-Varina, NC 27526 www.mottmac.com/americas
SUNGATE DESIGN GROUP, P.A.		
 350 JONES FRANKLIN ROAD RALEIGH, NORTH CAROLINA 27608 TEL (919) 858-2243 ENG FIRM LICENSE NO. C-880		

**PERMIT DRAWING
SHEET 5 OF 11**

DATE: 05-26-22

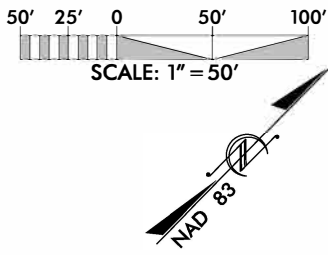
MATCHLINE -L RT- STA. 23+50.00 SEE SHEET 5



3
ROBERT DALTON KELLUM

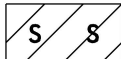

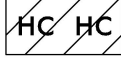
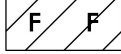
* NOTE: REMOVE ALL EXISTING
PILING RUINS AS PART OF
BRIDGE REMOVAL.

FOR -L RT- PROFILE, SEE SHEET 6
FOR DETOUR DESIGN, SEE SHEETS 2B-1 & 2B-2

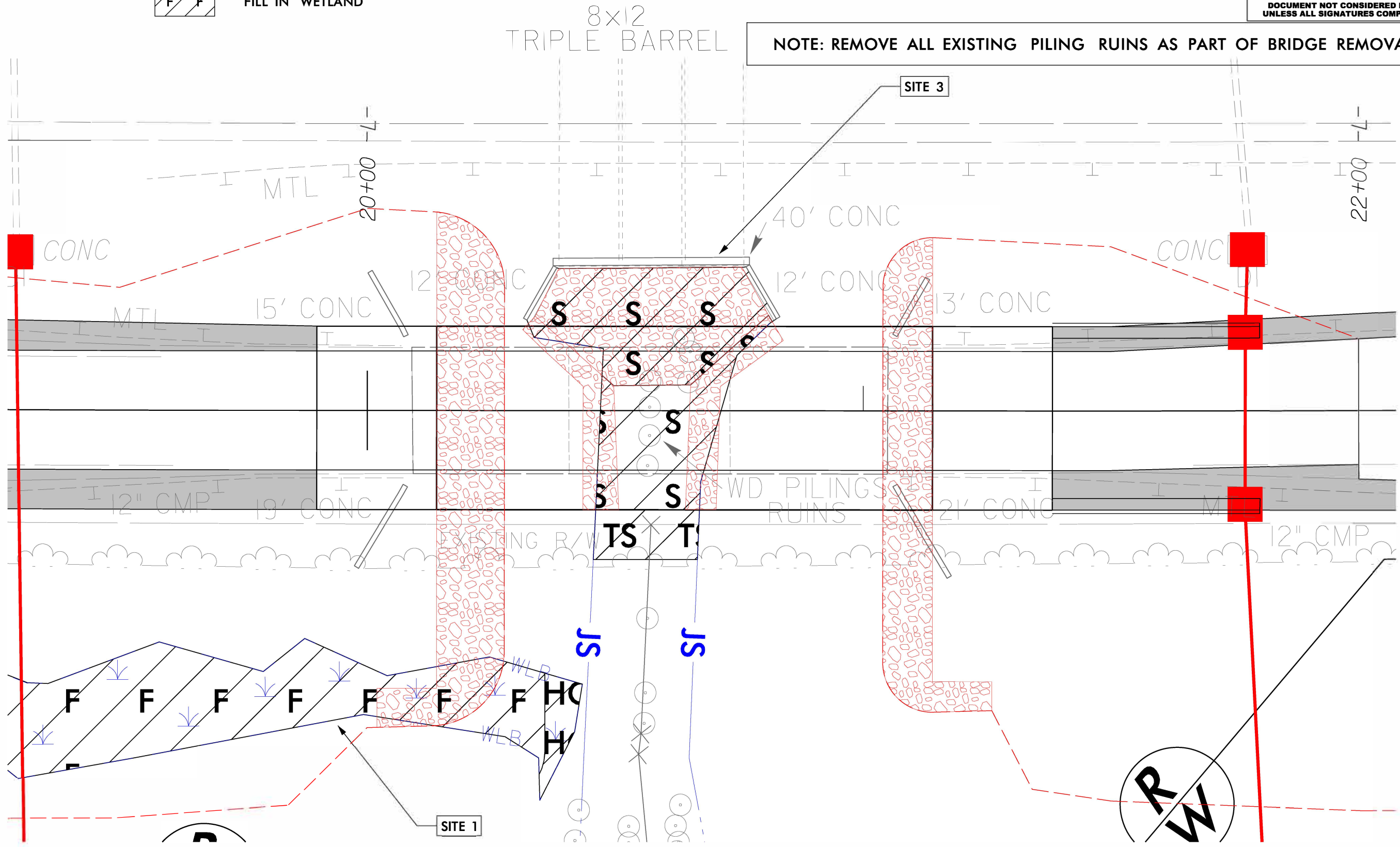


PERMIT DRAWING
SHEET 6 OF 11
DATE: 05-26-22

PROJECT REFERENCE NO.		SHEET NO.	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
<div>INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION</div>			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

-  SURFACE WATER IMPACTS
-  TEMPORARY SURFACE WATER IMPACTS
-  HAND CLEARING
-  FILL IN WETLAND


NOTE: REMOVE ALL EXISTING PILING RUINS AS PART OF BRIDGE REMOVAL

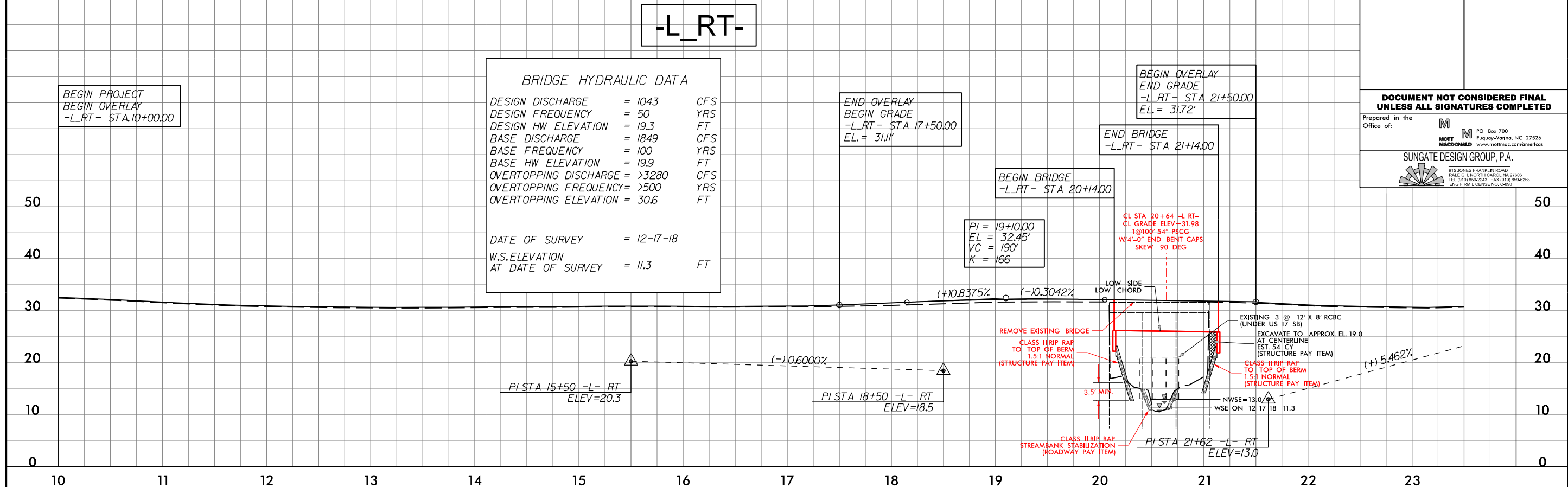


8/17/22

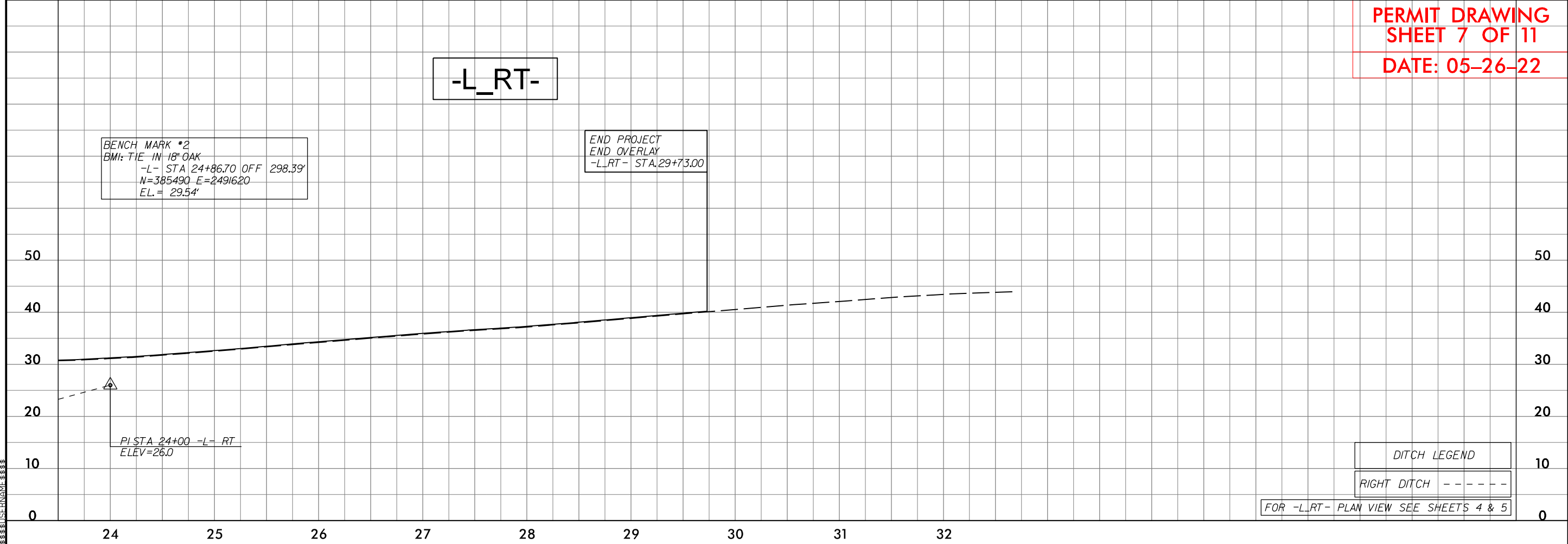
8/17/22

5/28/99

PROJECT REFERENCE NO. B-5652		SHEET NO. 6
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		
Prepared in the Office of:  MOTT MACDONALD PO Box 700 Furqay-Vantno, NC 27526 www.mottmac.com/america		
SUNGATE DESIGN GROUP, P.A. 815 JONES FRANKLIN ROAD RALEIGH, NORTH CAROLINA 27605 TEL: (919) 858-2243 FAX: (919) 858-4258 ENG FIRM LICENSE NO. C-889		



**PERMIT DRAWING
SHEET 7 OF 11
DATE: 05-26-22**



DITCH LEGEND	
RIGHT DITCH	-----

FOR -L_RT- PLAN VIEW SEE SHEETS 4 & 5

5/28/99

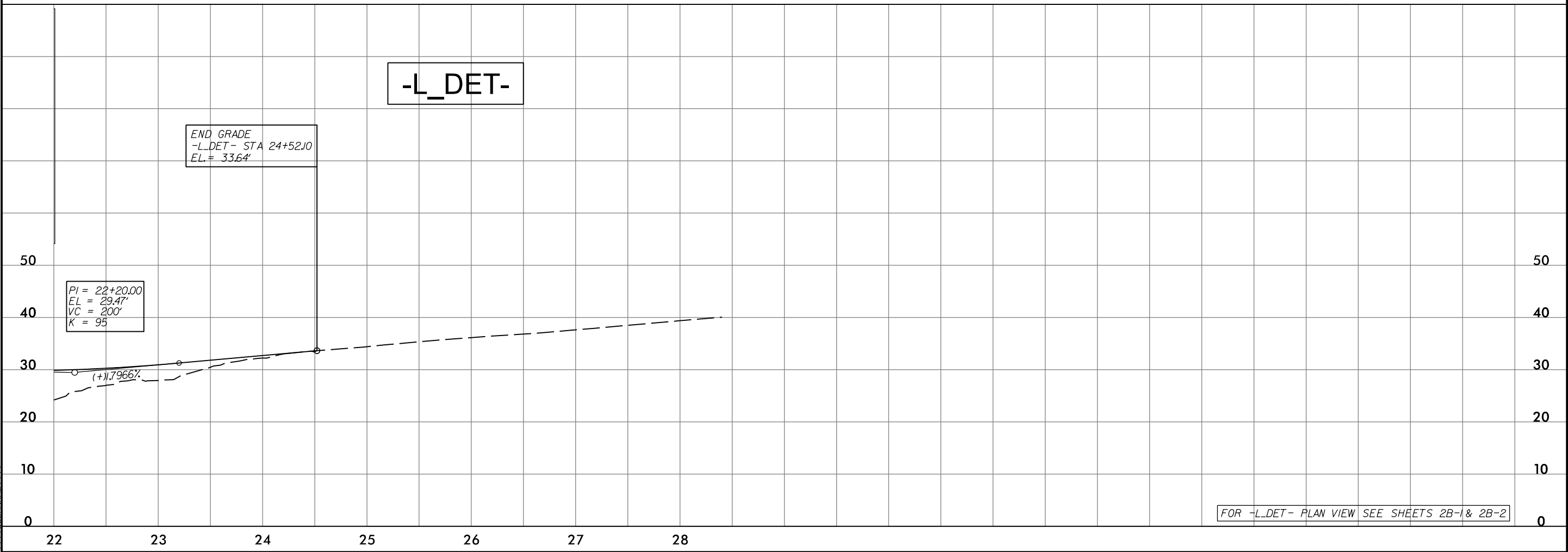
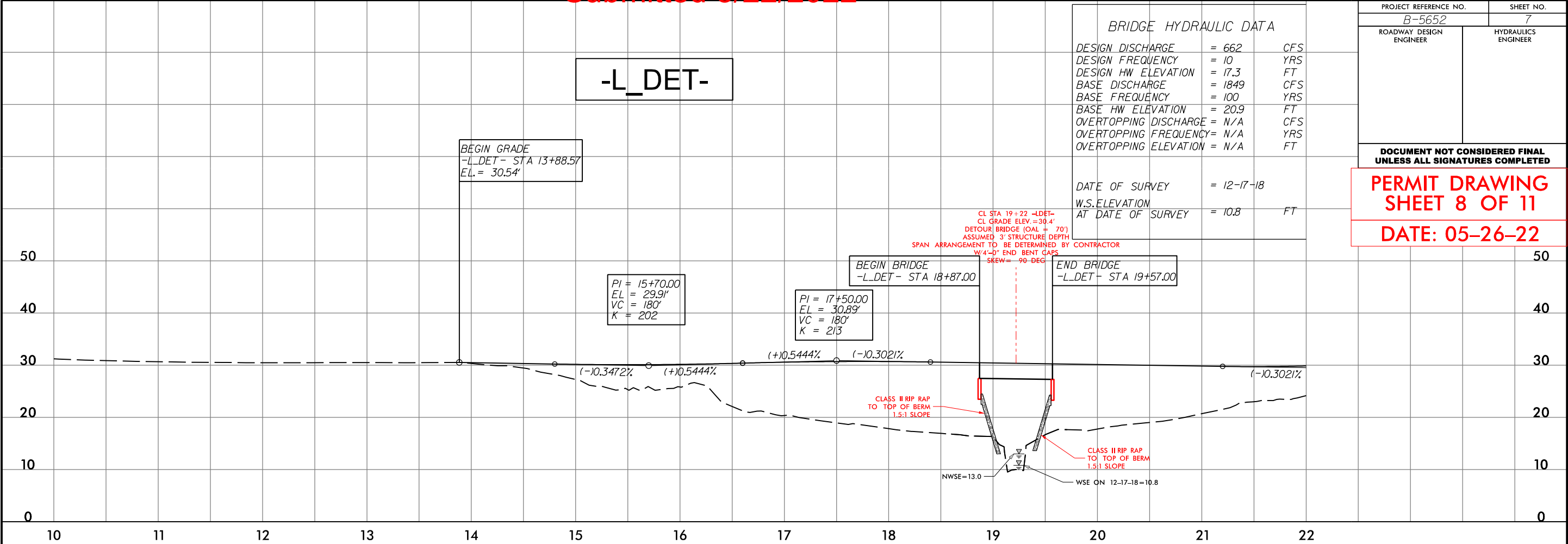
PROJECT REFERENCE NO.		SHEET NO.
B-5652		7
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER

BRIDGE HYDRAULIC DATA		
DESIGN DISCHARGE	= 662	CFS
DESIGN FREQUENCY	= 10	YRS
DESIGN HW ELEVATION	= 17.3	FT
BASE DISCHARGE	= 1849	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 20.9	FT
OVERTOPPING DISCHARGE	= N/A	CFS
OVERTOPPING FREQUENCY	= N/A	YRS
OVERTOPPING ELEVATION	= N/A	FT
DATE OF SURVEY	= 12-17-18	
W.S. ELEVATION AT DATE OF SURVEY	= 10.8	FT

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PERMIT DRAWING
SHEET 8 OF 11

DATE: 05-26-22

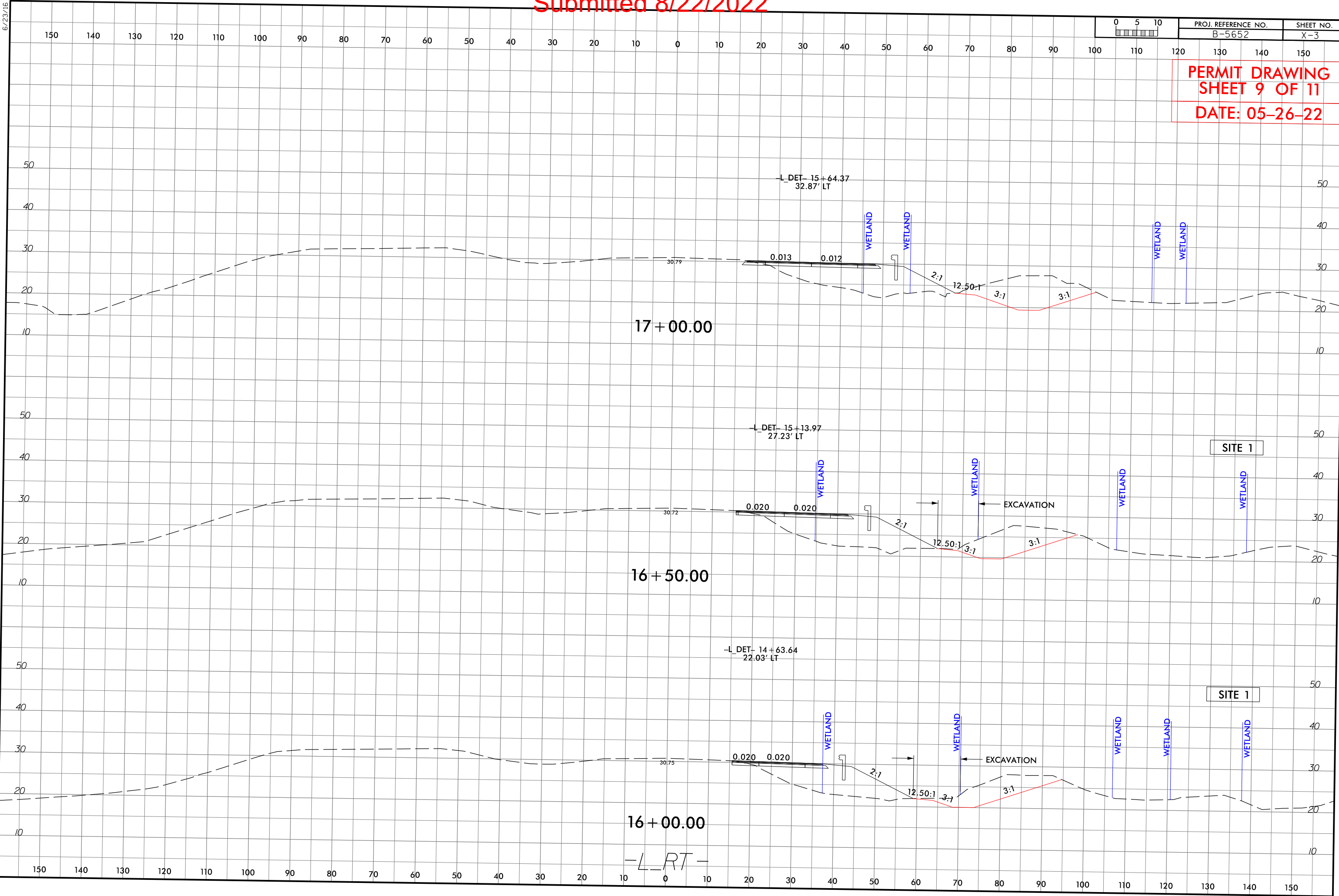


6/23/16



PROJ. REFERENCE NO.	SHEET NO.
B-5652	X-3

PERMIT DRAWING
SHEET 9 OF 11
DATE: 05-26-22



WETLAND AND SURACE WATER IMPACTS 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	12+72 to 15+05-L-RT	ROADWAY FILL	0.04				0.02					
	15+40 to 20+43-L-RT	ROADWAY FILL	0.19				< 0.01					
	15+39 to 16+98-L-RT	DITCH			0.04							
2	18+49 to 18+59-L-RT	DITCH				< 0.01						
3	20+32 to 20+83-L-LT	SCOUR HOLE RIP RAP						0.01	< 0.01	24	10	
	20+47 to 20+71-L-	BANK STABILIZATION								25		
4	21+43 to 21+73-L-RT	DITCH OUTLET							< 0.01		32	
5	18+20 to 18+41-L-RT	PIPE OUTLET	0.01									
TOTALS*:			0.25		0.04	< 0.01	0.03	0.01	0.01	49	42	0

*Rounded totals are sum of actual impacts

NOTES:

Site 3: Temporary impacts for dewatering

There is 0.01 acre of Temporary Fill in Hand Clearing areas for Erosion Control.

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
05-26-22
ONslow COUNTY
B-5652
45607.1.1