



## Pre-Construction Notification (PCN) Form

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

December 6, 2021 Ver 4.2

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

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

Below is a link to the online help file.

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

### A. Processing Information



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

Moore

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:

R-5726

WBS # \*

50218.1.1

(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 checked="" 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\_R-5726.pdf

354.57KB

FILE TYPE MUST BE PDF

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

☐ Yes ☒ No

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

☐ Yes ☒ No

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

## B. Applicant Information

1a. Who is the Primary Contact? \*

NCDOT

1b. Primary Contact Email: \*

driffey@ncdot.gov

1c. Primary Contact Phone: \*

(xxx)xxx-xxxx

(919)707-6151

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

☒ Owner

(Check all that apply)

☐ Applicant (other than owner)

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

☐ Yes ☒ No

## 2. Owner Information

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

Multiple Properties

2b. Deed book and page no.:

2c. Contact Person:

(for Corporations)

2d. Address \*

Street Address

1598 Mail Service Center

Address Line 2

City

Raleigh

Postal / Zip Code

27699-1598

State / Province / Region

NC

Country

USA

2e. Telephone Number: \*

(xxx)xxx-xxxx

(919)707-6000

2f. Fax Number:

(xxx)xxx-xxxx

2g. Email Address: \*

pharris@ncdot.gov

## C. Project Information and Prior Project History

### 1. Project Information

1a. Name of project: \*

Widening of NC211 from south of NC73 in West End to north of SR1241 (Holly Grove School Rd) R-5726



1b. Subdivision name:

(if appropriate)

1c. Nearest municipality / town: \*

West End

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

State / Province / Region

Postal / Zip Code

Country

2d. Site coordinates in decimal degrees

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

Latitude: \*

35.270019

ex: 34.208504

Longitude: \*

-79.599896

-77.796371

3. Surface Waters

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

McLendons Creek

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

C

[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. \*

030300030301

[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: \*

NC 211 serves local and regional traffic and is generally two lanes with speed limits varying from 35 miles per hour (mph) to 55 mph. This section of NC 211 through the project study area is classified as a minor arterial in the NCDOT functional classification system. Land use is predominately agriculture with dispersed commercial and residential areas.

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:

6.51

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

(intermittent and perennial)

1,711

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

The primary purposes of the proposed project include the following: Alleviate existing congestion at the NC 211 and SR 1239 (Seven Lakes Drive) intersection, improve mobility and reduce the number of conflict points along NC 211 from N.C. 73 in West End to SR 1241 (Holly Grove School Road), and improve east-west system linkage on NC 211 in Moore County between Pinehurst, the largest town in Moore County, and I-73/I-74/US 220 in Montgomery County.

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

The proposed improvements for this project consist of widening NC 211 from a two-lane roadway to a four-lane divided roadway, utilizing shoulder and curb and gutter. The proposed typical section near the southern terminus of the project (Segments A1 and A2) include a 23-foot raised median transitioning to a 46-foot wide grass median along Segment B near the southern intersection with SR 1135 (Dead Man Curve Road). Segment A1 proposes to widen NC 211 to the east from NC 73 in West End to Church Street. This segment does not cross or impact any streams or wetlands and is approximately 0.6 miles in length. Segment A2 proposes to widen NC 211 to the west from NC 73 in West End to Church Street. This segment does not cross or impact any streams or wetlands and is approximately 0.6 miles in length. Segment B proposes to widen NC 211 with a best-fit alignment from Church Street to SR 1241(Holly Grove School Road). This segment crosses three unnamed tributaries to McLendon's Creek and wetlands and is approximately 4.1 miles in length. NC 211 through West End and from SR 1238 (Love Grove Church Road) to the southern intersection of SR 1135 (Dead Man Curve Road) includes curb and gutter to minimize property impacts.

No control of access is proposed for NC 211 for the length of the project. A median will be constructed as part of the proposed improvements. Standard road building equipment such as truck, dozers, and cranes will be used.



5. Jurisdictional Determinations

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

Yes No Unknown

Comments:

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

Preliminary Approved Not Verified Unknown N/A

Corps AID Number:

Example: SAW-2017-99999

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

Name (if known): Sandy Smith
Agency/Consultant Company: Axion
Other: Deanna Riffey/NC DOT

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

WA, WC, WD, WE, WI and Streams A -D are PJD and WB & WG are AJD. Sites visits were made 7/21/18.

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".

Table with 8 columns: 2a. Site #, 2a1 Reason, 2b. Impact type, 2c. Type of W., 2d. W. name, 2e. Forested, 2f. Type of Jurisdiction, 2g. Impact area. It contains 10 rows of data detailing various wetland impact scenarios.



2g. Total Temporary Wetland Impact  
0.134

2g. Total Permanent Wetland Impact  
0.702

2g. Total Wetland Impact  
0.836

2i. Comments:

Wetlands at Sites 4 & 5 are Isolated. There will also be 0.02 acre of temporary fill in wetlands in the 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 <sup>*(?)</sup>	3b. Impact type <sup>*</sup>	3c. Type of impact <sup>*</sup>	3d. S. name <sup>*</sup>	3e. Stream Type <sup>*(?)</sup>	3f. Type of Jurisdiction <sup>*</sup>	3g. S. width <sup>*</sup>	3h. Impact length <sup>*</sup>
S1	Roadway/Pipe	Permanent	Fill	SA	Perennial	Both	3 <small>Average (feet)</small>	215 <small>(linear feet)</small>
S2	Roadway/Pipe	Permanent	Fill	SB	Intermittent	Both	3 <small>Average (feet)</small>	117 <small>(linear feet)</small>
S3	Pipe	Temporary	Fill	SB	Intermittent	Both	3 <small>Average (feet)</small>	7 <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:  
332

3i. Total temporary stream impacts:  
7

3i. Total stream and ditch impacts:  
339

3j. Comments:

4. Open Water Impacts

If there are proposed impacts to lakes, ponds, estuaries, tributaries, sounds, the Atlantic Ocean, or any other open water of the U.S. then individually list all open water impacts below.

4a. Site # <sup>*(?)</sup>	4a1. Impact Reason	4b. Impact type <sup>*(?)</sup>	4c. Name of waterbody <sup>(?)</sup>	4d. Activity type <sup>*</sup>	4e. Waterbody type <sup>*</sup>	4f. Impact area <sup>*</sup>
1	Draining pond	T	Pond A	Drainage	Pond	0.43 <small>(acres)</small>

4g. Total temporary open water Impacts:  
0.43

4g. Total permanent open water impacts:  
0.00

4g. Total open water impacts:  
0.43

4h. 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: <sup>\*</sup>

Culverts in the project area that convey jurisdictional streams have been buried to provide aquatic passage. Drainage has been designed so that outlets discharging into wetlands have non-erosive velocities to minimize disturbance to the wetland.



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

Steepened 3:1 fill slopes have been implemented in areas where wetlands and streams have been impacted by the project. Hand clearing will now be utilized in wetlands vs mechanized clearing as originally planned.

**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)

332

**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)

0.702

**4f. Non-riparian wetland mitigation requested:**

(acres)

**4g. Coastal (tidal) wetland mitigation requested:**

(acres)

**4h. Comments**

There is 0.642 acre of mitigation for 404 Wetland mitigation and additional 0.06 acre (1:1 ratio) for 401 Isolated Wetlands mitigation.

**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 project is in the Cape Fear River basin.

**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.

The CIA report from Sept. 2017 indicates no effect. The project will not alter travel patterns, reduce travel time, affect access to properties in the area, or open areas for development or redevelopment. Due to its minimal transportation impact-causing activities (TICAs), 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? \*

USFWS IPaC and field surveys. Species received biological conclusions of No Effect due to no habitat or habitat with no observation of species during surveys. Cape Fear shiner: No Habitat; Bald Eagle, RCW, Michaux Sumac: Habitat & No field observation. The NLEB (May Affect, Likely to Adversely Affect) falls under the PBO.

## 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? \*

EFH 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? \*

State Environmental Assessment/ Finding of No Significant Impact (SEA/FONSI)

## 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



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

FEMA Mapping and SEA/FONSI

## Miscellaneous

### Comments

**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

R5726\_Permit Drawings\_20220127.pdf

7.98MB

File must be PDF or KMZ

## Signature

\*

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

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

**Full Name: \***

Mack Christopher Rivenbark, III

**Signature \***

*Mack C. Rivenbark, III*

**Date**

2/2/2022



ROY COOPER

Governor

ELIZABETH S. BISER

Secretary

MARC RECKTENWALD

Director



NORTH CAROLINA  
Environmental Quality

January 28, 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:

**R-5726**, Widen NC 211 from NC 73 in West End to West of SR 2141 (Holly Grove School Road), Moore County

The purpose of this letter is to notify you that the Division of Mitigation Services (DMS) will provide the compensatory stream and wetland mitigation for the subject project. Based on the information supplied by you on January 27, 2022, the impacts are located in CU 03030003 of the Cape Fear River basin in the Southern Piedmont (SP) Eco-Region, and are as follows:

Stream and Wetlands	River Basin	CU Location	Eco-Region	Stream			Wetlands		
				Cold	Cool	Warm	Riparian	Non-Riparian	Coastal Marsh
Impacts	Cape Fear	03030003	SP	0	0	332.000	0.700	0	0

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

The impacts and associated mitigation needs were under projected by the NCDOT in the 2021 impact data. NCDEQ-DMS will commit to implement 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 Beth Harmon at 919-707-8420.

Sincerely,

James B. Stanfill


DMS Asset Management Supervisor

cc: Mr. Monte Matthews, USACE – Raleigh Regulatory Field Office  
Ms. Amy Chapman, NCDWR  
File: R-5726





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 <b>STORMWATER MANAGEMENT PLAN</b> FOR NCDOT PROJECTS									
(Version 3.00; Released August 2021)									
WBS Element: 50218.1.1		TIP/Proj No: R-5726		County(ies): Moore		Page 1 of 3			
<b>General Project Information</b>									
WBS Element:		50218.1.1		TIP Number:		R-5726		Project Type: Roadway Widening	
NCDOT Contact:		John Conforti		Contractor / Designer:		HDR Engineering / Joshua Massrock, P.E.			
		Address:				Address:			
		1020 Birch Ridge Dr. Raleigh, NC 27610				555 Fayetteville Street, Suite 900 Raleigh, NC 27601			
		Phone: (919) 707-6015				Phone: (919) 232-6631			
		Email: <a href="mailto:jconforti@ncdot.gov">jconforti@ncdot.gov</a>				Email: <a href="mailto:joshua.massrock@hdrinc.com">joshua.massrock@hdrinc.com</a>			
City/Town:		West End		County(ies):		Moore			
River Basin(s):		Cape Fear		CAMA County?		No			
Wetlands within Project Limits?		Yes							
<b>Project Description</b>									
Project Length (lin. miles or feet):		4.81		Surrounding Land Use:		Urban/Residential			
<b>Proposed Project</b>									
Project Built-Upon Area (ac.)		55.0		ac.		Existing Site		24.0 ac.	
Typical Cross Section Description:		4 lane divided freeway: (2) 4 foot paved shoulders, (2) 12 foot travel lanes, (2) 2 foot paved median shoulders, 42 foot median ditch - total width of 102'.				2 lane freeway: (2) 2 foot outside paved shoulders, (1) 12 foot travel lane - total width of 28'.			
Annual Avg Daily Traffic (veh/hr/day):		Design/Future: 21,300		Year: 2040		Existing: 16500		Year: 2020	
General Project Narrative: (Description of Minimization of Water Quality Impacts)		<p>Project Description:</p> <p>Impact Minimization Efforts: The project has been designed to minimize wetland and stream impacts along the project corridor. Steepened 3:1 fill slopes have been implemented in areas where wetlands and streams have been impacted by the project. Culverts in the project area that convey jurisdictional streams have been buried to provide aquatic passage. Drainage has been designed so that outlets discharging into wetlands have non-erosive velocities to minimize disturbance to the wetland. Hand clearing is being used in lieu of mechanized clearing in environmentally sensitive areas to satisfy the method 3 clearing limits.</p> <p>Stormwater BMP Measures: Dry detention basins have been proposed at specific locations along the project. Ditches have been designed to meet grass swale criteria to the maximum extent practical.</p>							



 <div style="text-align: center;"> <b>North Carolina Department of Transportation</b>  <b>Highway Stormwater Program</b>  <b>STORMWATER MANAGEMENT PLAN</b>  <b>FOR NCDOT PROJECTS</b> </div> 									
(Version 3.00; Released August 2021)									
WBS Element: 50218.1.1		TIP/Proj No.: R-5726		County(ies): Moore			Page 2 of 3		
<b>General Project Information</b>									
<b>Waterbody Information</b>									
Surface Water Body (1):		UT to Little River			NCDWR Stream Index No.:		18-23-(1)		
NCDWR Surface Water Classification for Water Body		Primary Classification:		Water Supply III (WS-III)					
		Supplemental Classification:		High Quality Waters (HQW)					
Other Stream Classification:		None							
Impairments:		None							
Aquatic T&E Species?		No		Comments:					
NRTR Stream ID:						Buffer Rules in Effect:		N/A	
Project Includes Bridge Spanning Water Body?		No		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)							
Surface Water Body (2):		UT to Big Juniper Creek			NCDWR Stream Index No.:		17-30-2		
NCDWR Surface Water Classification for Water Body		Primary Classification:		Class C					
		Supplemental Classification:		None					
Other Stream Classification:		None							
Impairments:		None							
Aquatic T&E Species?		No		Comments:					
NRTR Stream ID:						Buffer Rules in Effect:		N/A	
Project Includes Bridge Spanning Water Body?		No		Deck Drains Discharge Over Buffer?		N/A		Dissipator Pads Provided in Buffer?	
Deck Drains Discharge Over Water Body?		N/A		(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):		UT to McLendons Creek			NCDWR Stream Index No.:		17-30		
NCDWR Surface Water Classification for Water Body		Primary Classification:		Class C					
		Supplemental Classification:		None					
Other Stream Classification:		None							
Impairments:		None							
Aquatic T&E Species?		No		Comments:					
NRTR Stream ID:		SA, SB, SC				Buffer Rules in Effect:			
Project Includes Bridge Spanning Water Body?		No		Deck Drains Discharge Over Buffer?		N/A		Dissipator Pads Provided in Buffer?	
Deck Drains Discharge Over Water Body?		N/A		(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)							











R-5726

17


HYDRAULICS  
ENGINEER

HIR ENGINEERING  
 LICENSE NO. F-0116

pared in the  
ice of:

## M

**MOTT**  
**MACDONALD**

 HDR Engineering, Inc. of the Carolinas  
555 Fayetteville St. Suite 900 Raleigh, N.C. 27601  
N.C.B.E.L.S. License Number: F-0116

Natural Ground

3:1

d

D

3:1

1' Ft.

Fill Slope

GEOTEXTILE






B

Min. D = 1 Ft.  
Max. d = 1 Ft.  
B = 2 Ft.  
b = 5 Ft.

\*When B is < 6.0'

Type of Liner = Class B Rip-Rap

FROM STA. 51+35 -L- TO STA. 52+00 -L- LT  
FROM STA. 60+00 -L- TO STA. 62+50 -L- RT  
FROM STA. 191+25 -L- TO STA. 194+50 -L- LT

	DENOTES IMPACTS IN SURFACE WATER
	DENOTES EXCAVATION IN WETLAND
	DENOTES FILL IN WETLAND
	DENOTES HAND CLEARING
	DENOTES TEMPORARY IMPACTS IN SURFACE WATER

Pond being drained during construction based on Geotech recommendations.

PERMIT DRAWING  
SHEET 2 OF 9

MATCHLINE -L- STA. 180+00.00 SEE SHEET NO. 16

**MATCHLINE -L- STA. 193+00.00 SEE SHEET NO. 18**

-L-

---

Pls Sta 180+28.24  
 $\theta_s = 1^\circ 56' 08.4''$   
 $L_s = 200.00'$   
 $LT = 133.34'$   
 $ST = 66.67'$

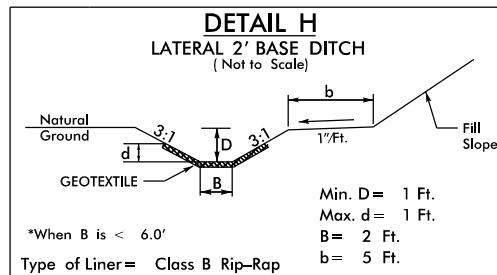
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PERMIT DRAWING  
SHEET 3 OF 9

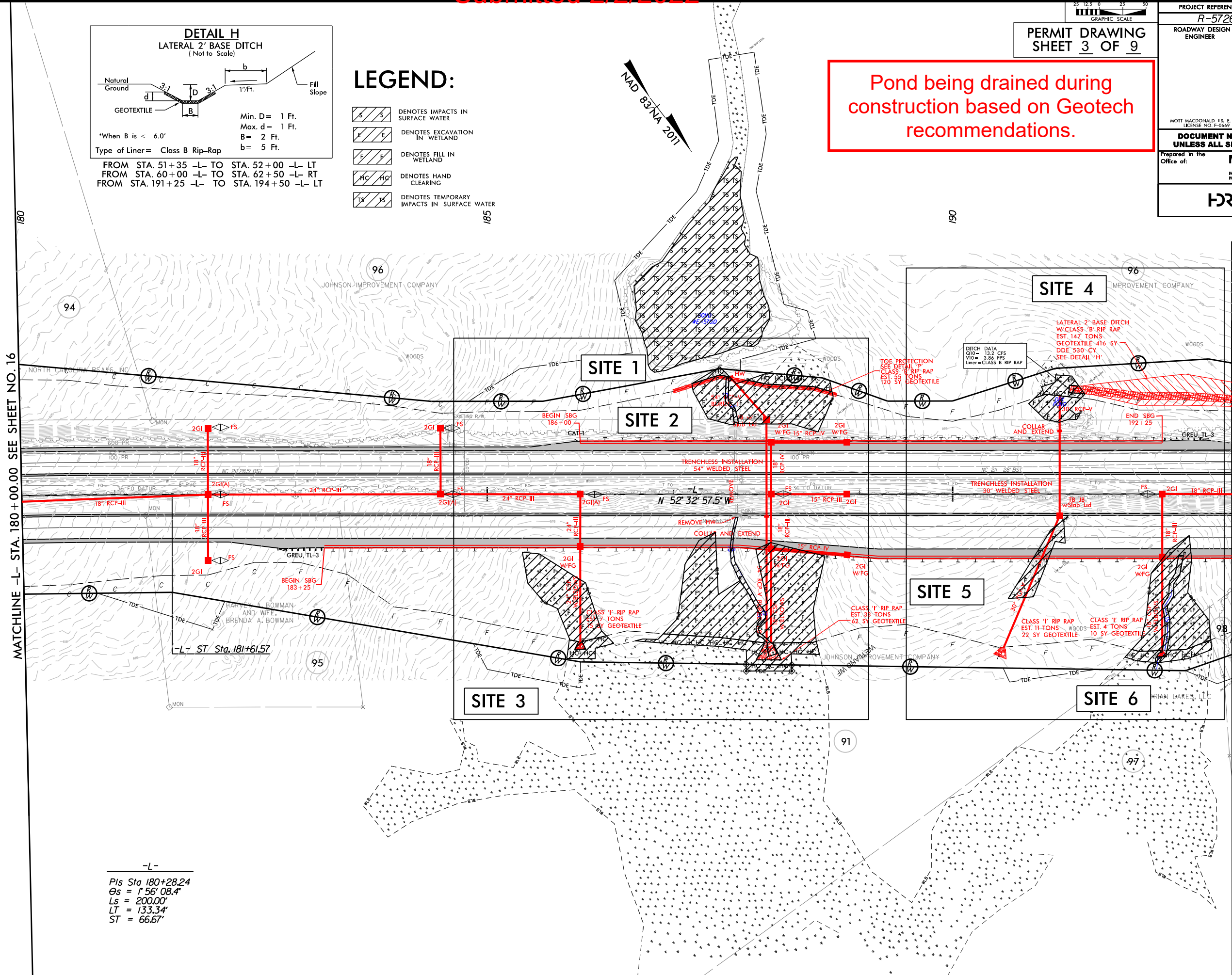
PROJECT REFERENCE NO.		SHEET NO.
R-5726		17
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
MOTT MACDONALD 1 & E, LLC LICENSE NO. F-0669		HDR ENGINEERING LICENSE NO. F-0116
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		
Prepared in the Office of: M M PO Box 700 Furqay-Vanino, NC 27526 MOTT MACDONALD www.mottmac.com/marfos		
HDR HDR Engineering, Inc. of the Carolinas 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116		



**LEGEND:**

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

Pond being drained during construction based on Geotech recommendations.



MATCHLINE -L- STA. 180+00.00 SEE SHEET NO. 16

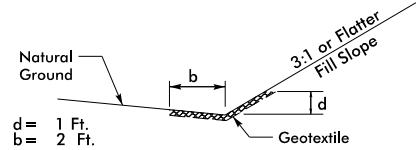
MATCHLINE -L- STA. 193+00.00 SEE SHEET NO. 18

-L-  
Pls Sta 180+28.24  
θs = 1° 56' 08.4"  
Ls = 200.00'  
LT = 133.34'  
ST = 66.67'



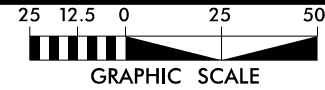
8/17/99

DETAIL P  
TOE PROTECTION  
(Not to Scale)



Type of Liner = Class 'B' Rip-Rap

FROM STA. 187+00 -L- TO STA. 188+90 -L- LT



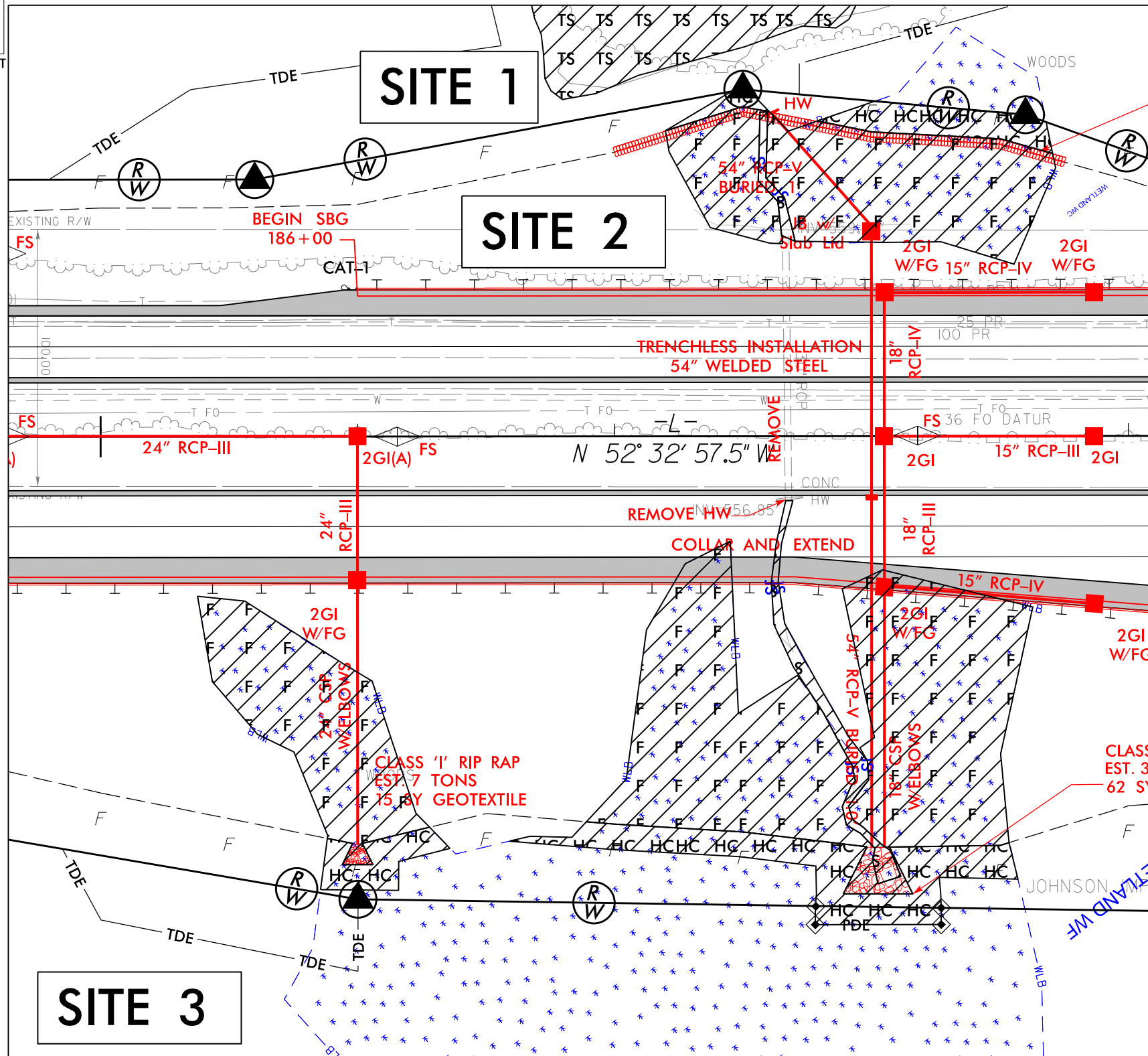
PERMIT DRAWING  
SHEET 4 OF 9

PROJECT REFERENCE NO. <b>R-5726</b>	SHEET NO. <b>17A</b>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared in the Office of: <b>M</b> <b>MOTT MCDONALD</b> PO. Box 700 Fayetteville, NC 27526 www.mottmac.com/marfos	
<b>HDR</b> HDR Engineering, Inc. of the Carolinas 555 Fayetteville St, Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	

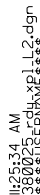


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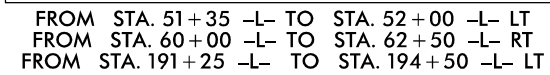
- DENOTES IMPACTS IN SURFACE WATER
- DENOTES FILL IN WETLAND
- DENOTES HAND CLEARING
- DENOTES TEMPORARY IMPACTS IN SURFACE WATER







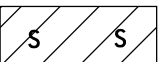
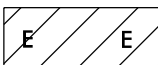
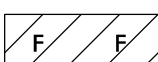
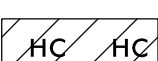
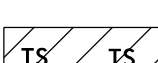


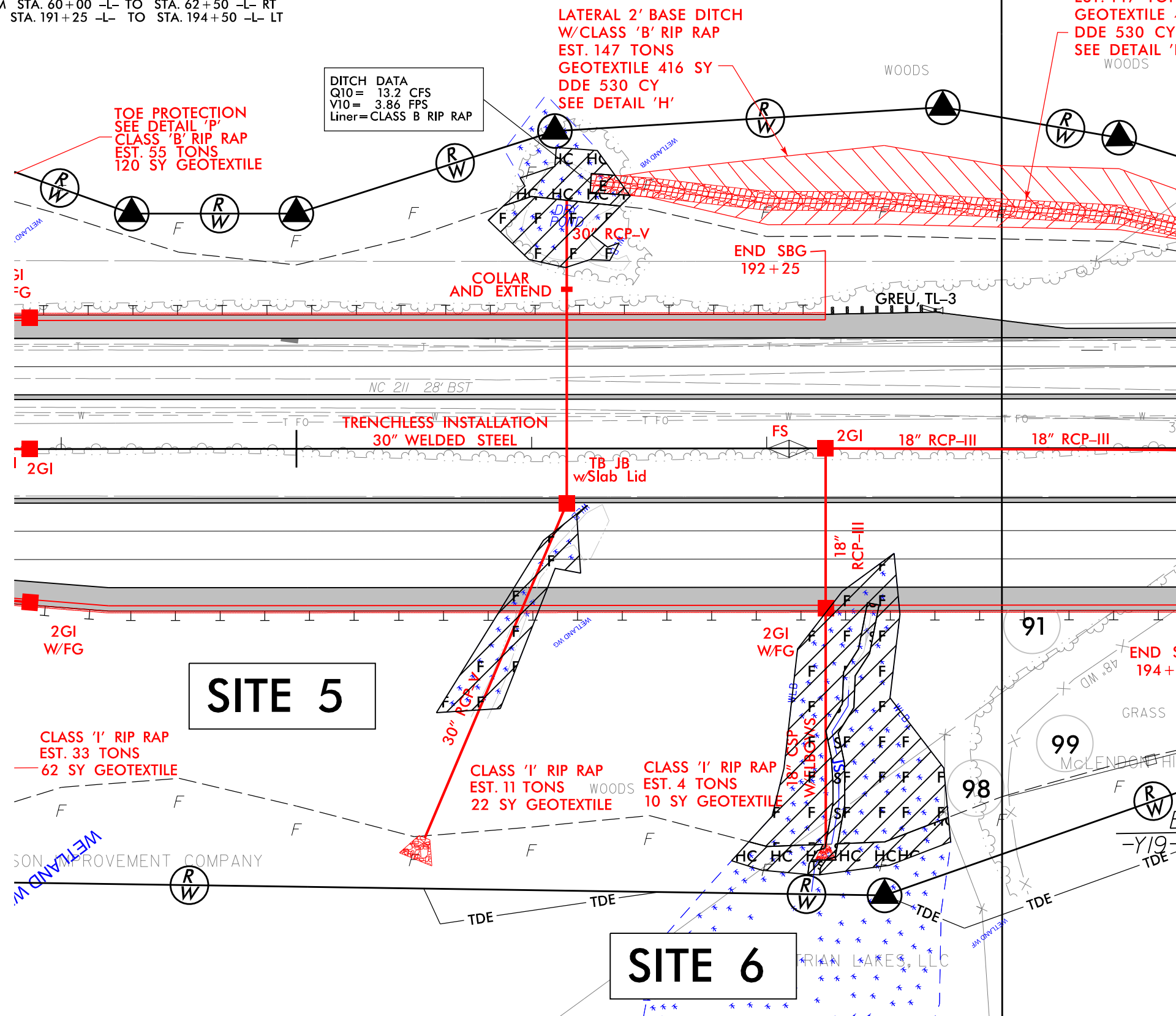


96  
IMPROVEMENT COMPANY



NAD 83/NA 2011

	DENOTES IMPACTS IN SURFACE WATER
	DENOTES EXCAVATION IN WETLAND
	DENOTES FILL IN WETLAND
	DENOTES HAND CLEARING
	DENOTES TEMPORARY IMPACTS IN SURFACE WATER





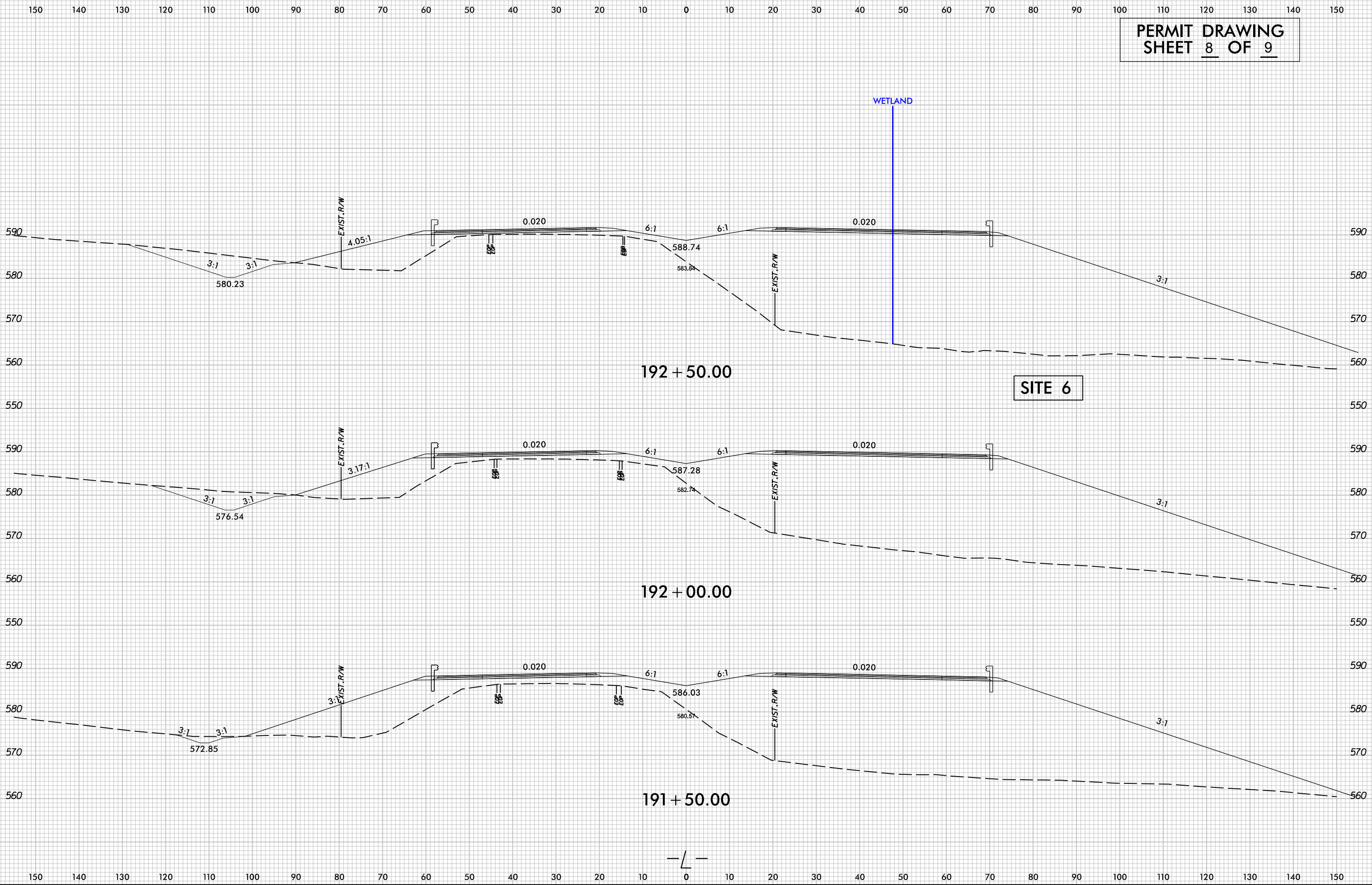




6/23/16

0 5 10 [Scale Bar]	PROJ. REFERENCE NO.	SHEET NO.
	R-5726	X-84

PERMIT DRAWING  
SHEET 8 OF 9



1629:15 AM  
3/30/2016  
SUBMITTABLE



WETLAND AND SURACE WATER IMPACTS SUMMARY												
			WETLAND IMPACTS					SURFACE WATER IMPACTS				
Site No.	Station (From/To)	Structure Size / Type	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	186+58/188+04 LT	** Draining Pond							0.43			
2	187+20/188+72 LT	Roadway Fill/ 54" RCP-V	0.14				0.03	0.02		215		
3	185+38/188+63 RT	Rdwy Fill/ 54" RCP-V/18" CSP	0.38				0.07					
4	191+25/191+42 LT	Lateral Ditch			< 0.01							
4	190+82/191+42 LT	Roadway Fill/ 30" RCP-V	0.03				0.02					
5	190+60/191+24 RT	Roadway Fill/ 30" RCP-V	0.03									
6	191+85/192+78 RT	Roadway Fill/ 18" CSP	0.12				0.02	0.01	< 0.01	117	7	
TOTALS*:			0.70		< 0.01		0.13	0.03	0.43	332	7	0

\*Rounded totals are sum of actual impacts

NOTES:

\* Totals above reflect Wetland WG being considered as a total take.

\*\* Geotech recommendation to drain pond prior to construction.

There will be 0.02 acre of Temporary Fill in Wetlands in the Hand Clearing areas for Erosion Control measures

NC DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

Moore County

R-5726

50218.1.1

SHEET

9

OF

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