



Pre-Construction Notification (PCN) Form

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

September 29, 2018 Ver 3

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

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

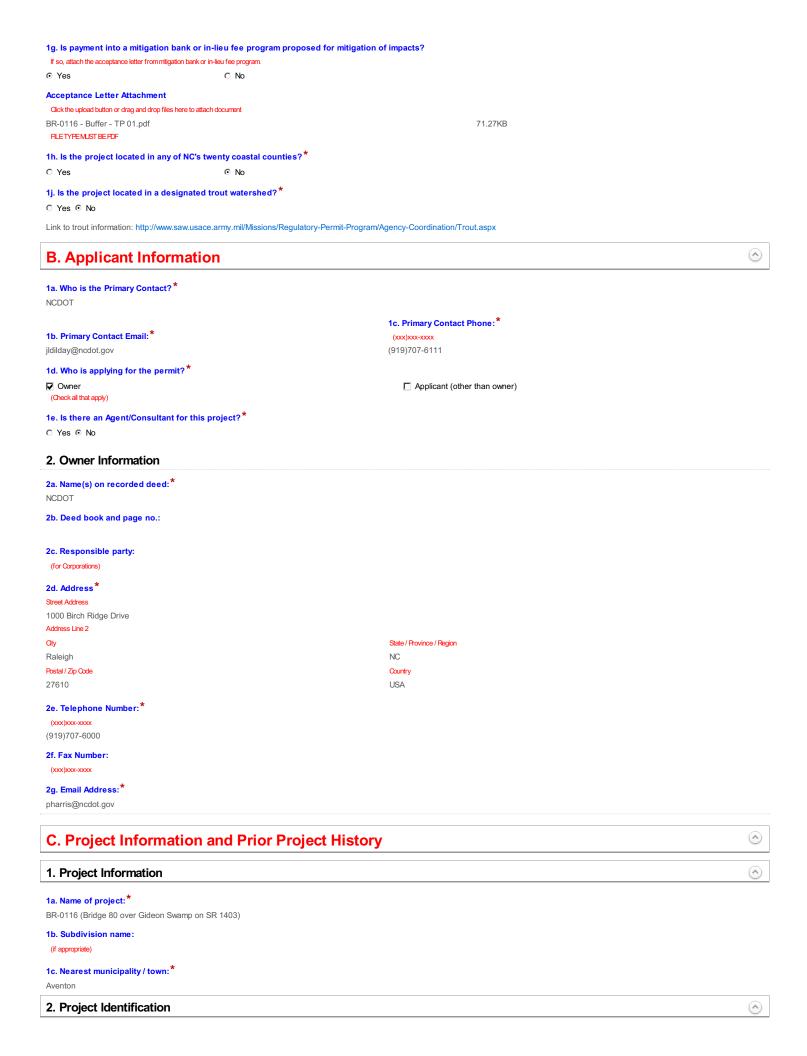
Below is a link to the online help file.

C Yes

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

⊙ No

A. Processing Information		⊙
County (or Counties) where the project is located	: *	
Nash		
Is this project a public transportation project?*		
• Yes ○ No This is any publicly funded by municipal state or federal funds road, ra	ail, airport transportation project.	
Is this a NCDOT Project?*		
⊙ Yes ℂ No		
(NCDOT only) T.I.P. or state project number:		
BR-0116		
WBS #*		
67116.1.1 (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, R	ivers and Harbors Act)	
1b. What type(s) of permit(s) do you wish to seek	authorization?*	
✓ Nationwide Permit (NWP)		
Regional General Permit (RGP)		
Standard (IP)		
		ease contact your Corps representative concerning submittals for standard permits. All required items that the miscellaneous upload area located at the bottom of this form.
	*	
1c. Has the NWP or GP number been verified by the Yes No	he Corps?"	
O TES O NO		
Nationwide Permit (NWP) Number:	03 - Maintenance	
NWP Numbers (for multiple NWPS): List all NW numbers you are applying for not on the drop down list.		
1d. Type(s) of approval sought from the DWR: * check all that apply		
		☐ 401 Water Quality Certification - Express
Non-404 Jurisdictional General PermitIndividual Permit		☑ Riparian Buffer Authorization
1e. Is this notification solely for the record becau	se written approval is not require	d?
		*
For the record only for DWR 401 Certification:		C Yes € No
For the record only for Corps Permit:		○ Yes ⓒ No
1f. Is this an after-the-fact permit application? *		



2a. Property Identification Number:

(tax PIN or parcel ID) (in acres)

2c. Project Address

Street Address

Address Line 2

Otty 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.)

2b. Property size:

Latitude:*

36.126952
ex: 34.208504

Longitude:*

-77.9557734

-77.796371

3. Surface Waters

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

Gideon Swamp

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

C;NSW:+

Surface Water Lookup

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

Tar-Pamlico

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

030201010706

River Basin Lookup

4. Project Description and History

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

Land use in the project vicinity is primarily forestland interspersed with agricultural areas and residential development along roadways.

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

○ Yes ⊙ No ○ Unknown

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

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

File type must be pdf

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

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

File type must be po

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

0.1

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

(intermittent and perennial)

780

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

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

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

This project involves replacing the 86-foot, 5-span bridge with a 106-foot, 3-span bridge on existing alignment using an off-site detour. Standard road building equipment, such as trucks, dozers, and cranes will be used.

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

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

 Br-0116_Permit Drawings.pdf
 1.2MB

 BR-0116_Buffer Drawings.pdf
 859.87KB

 BR-0116_Roadway.pdf
 1.63MB

5. Jurisdictional Determinations

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

⊙ Yes C No C Unknown

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

Corps AID Number:

Example: SAW-2017-99999

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

Name (if known): James Mason

Agency/Consultant Company: Three Oaks Engineering

Other:

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

Field verification conducted on May 24, 2019 with Eric Alsmeyer (USACE). Written verification not received.

5d1. Jurisdictional determination upload

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

File type must be PDF

6. Future Project Plans

6a. Is this a phased project?*

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*	→ (m)	2g. Impact area [*]
1		Handclearing	Т	Headwater Forest	WB	Yes	Both	0.003 (acres)

2g. Total Temporary Wetland Impact

0.003

2g. Total Permanent Wetland Impact

0.000

2g. Total Wetland Impact

0.003

2h. Comments:

Handclearing in wetlands totals 110 sq ft.

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 *
S	1	Fill slope/ROW	Temporary	Other	Gideon Swamp	Perennial	Both	15 Average (feet)	35 (linear feet)

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

3i. Total jurisdictional ditch impact in square 0	feet:
3i. Total permanent stream impacts:	
3i. Total temporary stream impacts: 35	
3i. Total stream and ditch impacts: 35	
3j. Comments: Temporary impact to Gideon Swamp due to hand	clearing in wetland adjacent to stream.

6. Buffer Impacts (for DWR)

If project will impact a protected riparian buffer, then complete the chart below. Individually list all buffer impacts below.

6a. Project is in which protect basin(s)?*	
Check all that apply.	
☐ Neuse	▼ Tar-Pamlico
☐ Catawba	□ Randleman

☐ Goose Creek	
☐ Other	

6b. Impact Type * (?)	6c. Per or Temp*(?)	6d. Stream name *	6e. Buffer mitigation required?*	6f. Zone 1 impact *	6g. Zone 2 impact*
Site 1-Road Crossing-Allowable	Р	Gideon Swamp	No	211 (square feet)	555 (square feet)
Site 1-Bridge-Allowable	Р	Gideon Swamp	No	2,113 (square feet)	367 (square feet)
Site 2-Parallel Impact-Allowable w/ mitigation	Р	Gideon Swamp	Yes	1,425 (square feet)	1,162 (square feet)

6h. Total buffer impacts:

6i. Comments:

There is 110 sq ft of zone 1 buffer impact at Site 1 that occurs within wetlands.

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

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

File must be PDF

E. Impact Justification and Mitigation



1. Avoidance and Minimization

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

The replacement structure is designed so that internal bents are outside of the the banks of Gideon Swamp. There will be no permanent stream or wetland impacts with the project. See Stormwater Management Plan for more information.

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

NCDOT's Design Standards in Sensitive Watersheds will be employed during construction. NCDOT Best Management Practices for Construction and Maintenance Activities will be implemented. An off-site detour will be used during construction.

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

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

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

Due to minimal impacts, compensatory mitigation for Waters of the U.S. or Waters of the State is not proposed

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

6b. If yes, then identify the square feet of impact to each zone of the riparian buffer that requires mitigation calculate the amount of mitigation required in the table below.

			6d. Total impact (square feet)		6e. Required mitigation (square feet)	
Z	Zone 1	Fill slope/ROW	1,425	3	4,275	

Zone 2 Fill slope/ROW 1,162 1.5 1,743

6f. Total buffer mitigation required

6019

6g. If buffer mitigation is required, is payment to a mitigation bank or NC Division of Mitigation Services proposed?

Yes O N

6h. Attach the acceptance letter from the mitigation bank or NC Division of Mitigation Services.

BR-0116 - Buffer - TP 01.pdf 71.27KB

6j. Comments:

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

1b. All buffer impacts and high ground impacts require diffuse flow or other form of stormwater treatment. If the project is subject to a state implemented riparian buffer protection program, include a plan that fully documents how diffuse flow will be maintained.

All Stormwater Control Measures (SCM)s must be designed in accordance with the NC Stormwater Design Manual. Associated supplement forms and other documentation shall be provided.

What type of SCM are you providing?

Level Spreader

Vegetated Conveyance (lower SHWT)

☐ Other SCM that removes minimum 30% nitrogen

Proposed project will not create concentrated stormwater flow through the buffer

(check all that apply)

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

Diffuse Flow Documentation

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

File type must be PDF

2. Stormwater Management Plan

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

⊙ Yes ○ No

Comments:

G. Supplementary Information



1. Environmental Documentation

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

Yes C N

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 ⊙ Yes	the document review been finalized by the State Clearing House? (If so,	attach a copy of the NEPA or SEPA final approval letter.)*
NEPA or SEPA Final Approval Letter Click the upload button or drag and drop files here to attach or FILETYPEMUST BEPDF	ocument	
2. Violations (DWR Requireme	ent)	
NEPA or SEPA Final Approval Letter Click the upload button or drag and drop files here to attach document	NCAC 2H .1300), or DWR Surface Water or Wetland Standards or	
3. Cumulative Impacts (DWR	Requirement)	
		ch could impact nearby downstream water quality?*
Due to the minimal transportation impact resulting	g from this bridge replacement, this project will neither influence nearby land uses	s nor stimulate
4. Sewage Disposal (DWR Re	quirement)	
	this project?*	
5. Endangered Species and D	esignated Critical Habitat (Corps Requirement)	
• •		
	ou have contacted.	
	⊙ No	© Unknown
• •	sion's 1-8?*	
N.C. Natural Heritage Program database; USFW include red-cockaded woodpecker (RCW), dwar Michaux's sumac exist within the study area, how use the Programmatic Biological Opinion for dware.	S-Raleigh Field Office website; biological surveys for protected species listed for N f wedgemussel, Tar River spinymussel, yellow lance and Michaux's sumac. Habita vever no specimens were observed during surveys conducted on May 24, 2019. N	lash County, which t for RCW and ICDOT proposes to
Click the upload button or drag and drop files here to attach of	ocument	
6. Essential Fish Habitat (Corp	os Requirement)	
	-	
•	mine whether your site would impact an Essential Fish Habitat?*	
7. Historic or Prehistoric Cultu	ıral Resources (Corps Requirement)	
Link to the State Historic Preservation Office His	toric Properties Map (does not include archaeological data: http://gis.ncdcr.gov/h	poweb/
Trust designation or properties significant	in North Carolina history and archaeology)?*	historic or cultural preservation status (e.g., National Historic
	mine whether your site would impact historic or archeological resources?	*
7c. Historic or Prehistoric Information Uplo	nd .	

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?*

FEMA maps

Miscellaneous



Comments

Miscellaneous attachments not previously requested.

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

File must be PDF or KMZ

Signature



*

 ${\ensuremath{\,\overline{\!\!\mathcal V}}}$ By checking the box and signing below, I certify that:

- I have given true, accurate, and complete information on this form;
- I agree that submission of this PCN form is a "transaction" subject to Chapter 66, Article 40 of the NC General Statutes (the "Uniform Electronic Transactions Act");
- I agree to conduct this transaction by electronic means pursuant to Chapter 66, Article 40 of the NC General Statutes (the "Uniform Electronic Transactions Act");
- I understand that an electronic signature has the same legal effect and can be enforced in the same way as a written signature; AND
- I intend to electronically sign and submit the PCN form.

Full Name:*

Mack Christopher Rivenbark III

Signature

Mack C. Riverbark, III

Date

10/10/2019



ROY COOPER Governor MICHAEL S. REGAN Secretary TIM BAUMGARTNER Director

September 24, 2019

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

Dear Mr. Harris:

Subject: DMS Mitigation Acceptance Letter:

TIP Number BR-0116 - Replace Bridge 80 over Gideon Swamp on SR 1403, Nash County

The purpose of this letter is to notify you that the NCDEQ Division of Mitigation Services (NCDEQ DMS) will provide the buffer mitigation for the subject project. Based on the information supplied by you on September 23, 2019, the impacts are located in CU 03020101 of the Tar-Pamlico River basin in the Northern Inner Coastal Plain (NICP) Eco-Region, and are as follows:

Tar-Pamlico		Stream			Wetlands			(Sq. Ft.)
03020101 NICP	Cold	Cool	Warm	Riparian	Non- Riparian	Coastal Marsh	Zone I	Zone 2
Impacts (feet/acres)	0	0	0	0	0	0	1,425.0	1,162.0

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

All buffer mitigation requests and approvals are administrated through the Riparian Restoration Buffer Fund. The NCDOT will be responsible to ensure that appropriate compensation for the buffer mitigation will be provided in the agreed upon method of fund transfer. Upon receipt of the NCDWR's Buffer Authorization Certification, NCDEQ DMS will transfer funds from the NCDOT 2984 Fund into the Riparian Restoration Buffer Fund. Upon completion of transfer payment, NCDOT will have completed its riparian buffer mitigation responsibility for this project. If the above referenced impact amounts are revised, then this mitigation acceptance letter will no longer be valid and a new mitigation acceptance letter will be required from DMS.

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

Sincerely,

James B. Stanfill

DMS Asset Management Supervisor

cc:

Mr. Monte Matthews, USACE - Raleigh Regulatory Field Office

Ms. Amy Chapman, NCDWR

Ms. Linda Fitzpatrick, NCDOT - PDEA

File: BR-0116





(If yes, provide justification in the General Project Narrative)

North Carolina Department of Transportation



General Project Narrative)

Highway Stormwater Program STORMWATER MANAGEMENT PLAN Version 2.01; Released December 2014) FOR NCDOT PROJECTS TIP No.: BR-0116 WBS Element: County(ies): Nash Page of **General Project Information** TIP Number: WBS Element: Date: 3/20/2019 BR-0116 Project Type: Bridge Replacement NCDOT Contact: Wetherill Engineering, Inc. / Jim Davis, PE Chad Coggins Contractor / Designer: Address: Highway Divison 4 Address: 1223 Jones Franklin Rd. 509 Ward Blvd, PO BOX 3165 Raleigh, NC 27606 Wilson, NC 27895 Phone: 252-237-6164 Phone: 919-851-8077 Email: jdavis@wetherilleng.com Email: ccoggins@ncdot.gov City/Town: N/A County(ies): Nash CAMA County? River Basin(s): Tar-Pamlico Nο Wetlands within Project Limits? Yes **Project Description** Rural / Agricultural Project Length (lin. miles or feet): 0.018 mi. Surrounding Land Use: **Proposed Project Existing Site** 0.316 Project Built-Upon Area (ac.) 0.232 Typical Cross Section Description: The proposed section consists of two lanes 10' in width . Full depth paved shoulders 6'-Existing road consists of two lanes with variable lane widths of 8.3' to 9.2'. Variable 5" to 7'-5" will be constructed at bridge approach guardrail locations. Minimum 3'-0" width grassed shoulders. grassed shoulders will be provided for remaining lengthof roadway improvement. Annual Avg Daily Traffic (veh/hr/day): Design/Future: 310 Year: 2019 Existing: Year: General Project Narrative: Existing drainage flow patterns will be maintained. There will be no deck drains on the bridge. Bridge runoff will be intercepted at the downgrade end by drainage inlets and will (Description of Minimization of Water be discharged onto a rip rap pad outside of Buffer Zone 2. Quality Impacts) Waterbody Information Surface Water Body (1): NCDWR Stream Index No.: 28-78-2 Gideon Swamp Primary Classification: Class C NCDWR Surface Water Classification for Water Body Supplemental Classification: Nutrient Sensitive Waters (NSW) Waters (ORW) Other Stream Classification: None Impairments: None Threatened/Endangered Species? No Comments: NRTR Stream ID: **Buffer Rules in Effect:** Tar-Pamlico Deck Drains Discharge Over Buffer? N/A Project Includes Bridge Spanning Water Body? Yes No Dissipator Pads Provided in Buffer? (If yes, describe in the General Project Narrative; if no, justify in the (If yes, provide justification in the General Project Narrative) No Deck Drains Discharge Over Water Body?

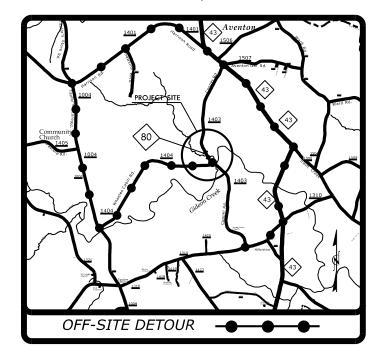
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See Sheet 1-A For Index of Sheets See Sheet 1-B For Conventional Symbols See Sheet 1C-1 TO 1C-2 For Survey Control Sheets



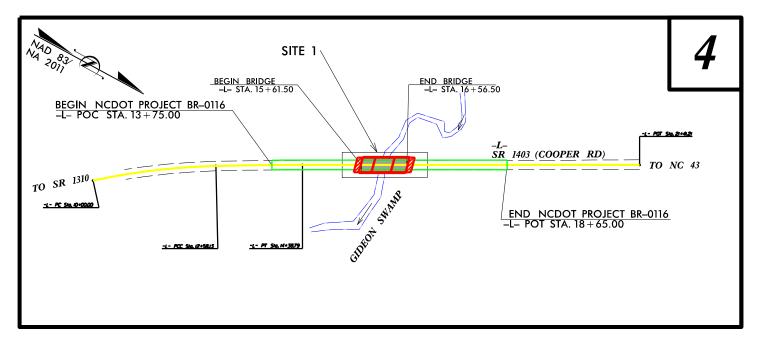
STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

NASH COUNTY

LOCATION: BRIDGE NO. 630080 OVER GIDEON SWAMP ON SR 1403 (COOPER RD.)

TYPE OF WORK: GRADING, DRAINAGE, PAVING & STRUCTURE

WETLAND AND SURFACE WATER **IMPACTS PERMIT**



SHEET TOTAL SHEETS N.C. BR-0116 1 DESCRIPTION 67116.1.1 PE



RANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CNIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

BRIDGE #630080

PERMIT DRAWING SHEET 1 OF 4

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

DESIGN DATA GRAPHIC SCALES ADT 2019 = 310T = 6 %V = 55 MPH(TTST = 3% +PROFILE (HORIZONTAL) DUAL = 3%FUNC CLASS = RURAL LOCAL PROFILE (VERTICAL)

SUBREGIONAL TIER

PROJECT LENGTH LENGTH ROADWAY PROJECT BR-0116 = 0.079 MILES LENGTH STRUCTURE PROJECT BR-0116 = 0.020 MILES TOTAL LENGTH PROJECT BR-0116 = 0.099 MILE

> DAVID STUTTS, PE
> PROJECT ENGINEER - PEF/PROGRAM MGT. NCDOT CONTACT:

DIVISION OF HIGHWAYS STRUCTURES MANAGMENT UNIT 1000 BIRCH RIDGE DRIVE RALEIGH NC, 27610

2018 STANDARD SPECIFICATIONS RIGHT OF WAY DATE: APRIL 3, 2019

LETTING DATE: OCTOBER 3, 2019

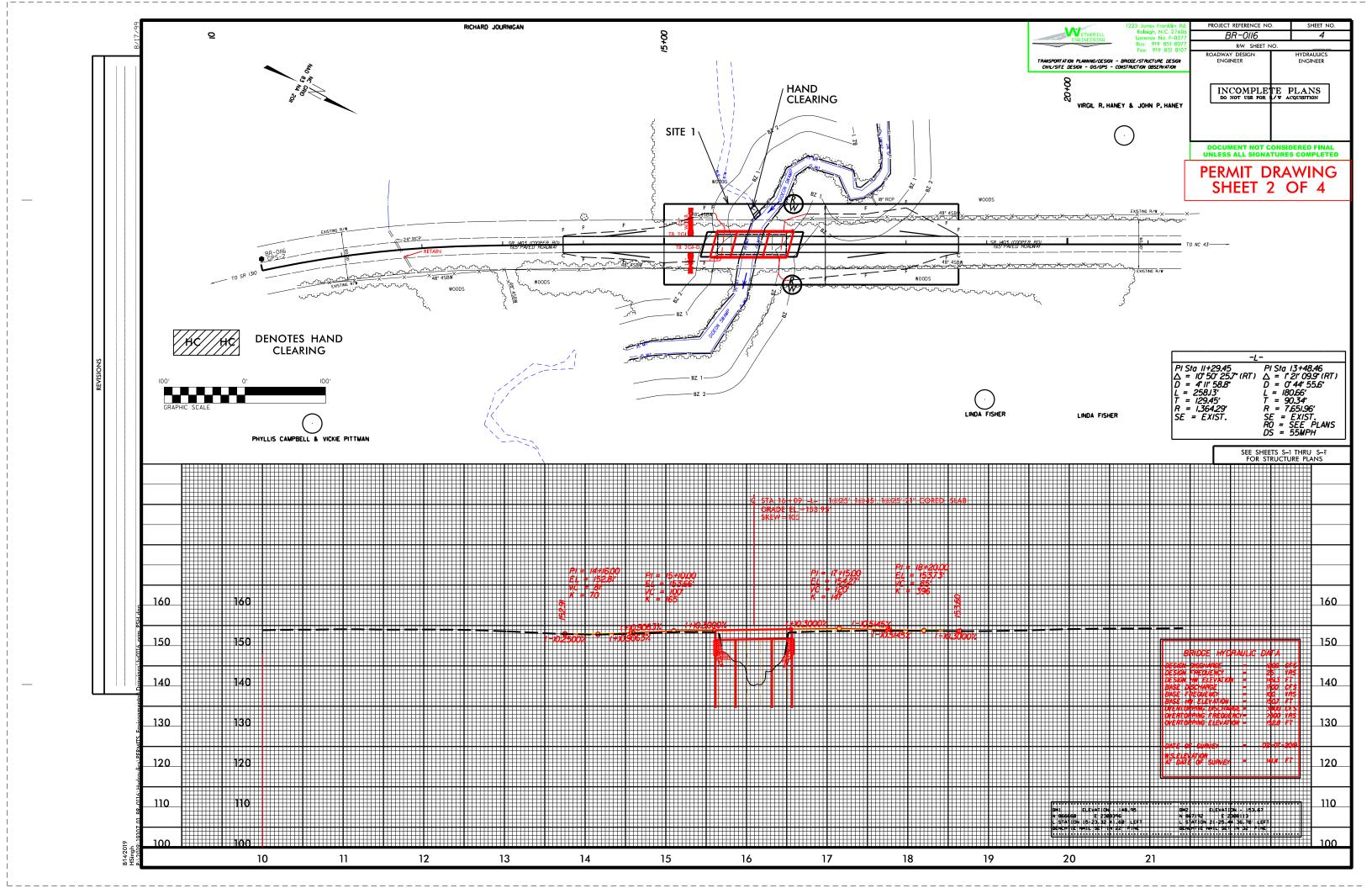
EDWARD G, WETHERILL, PE GREG S. PURVIS, PE

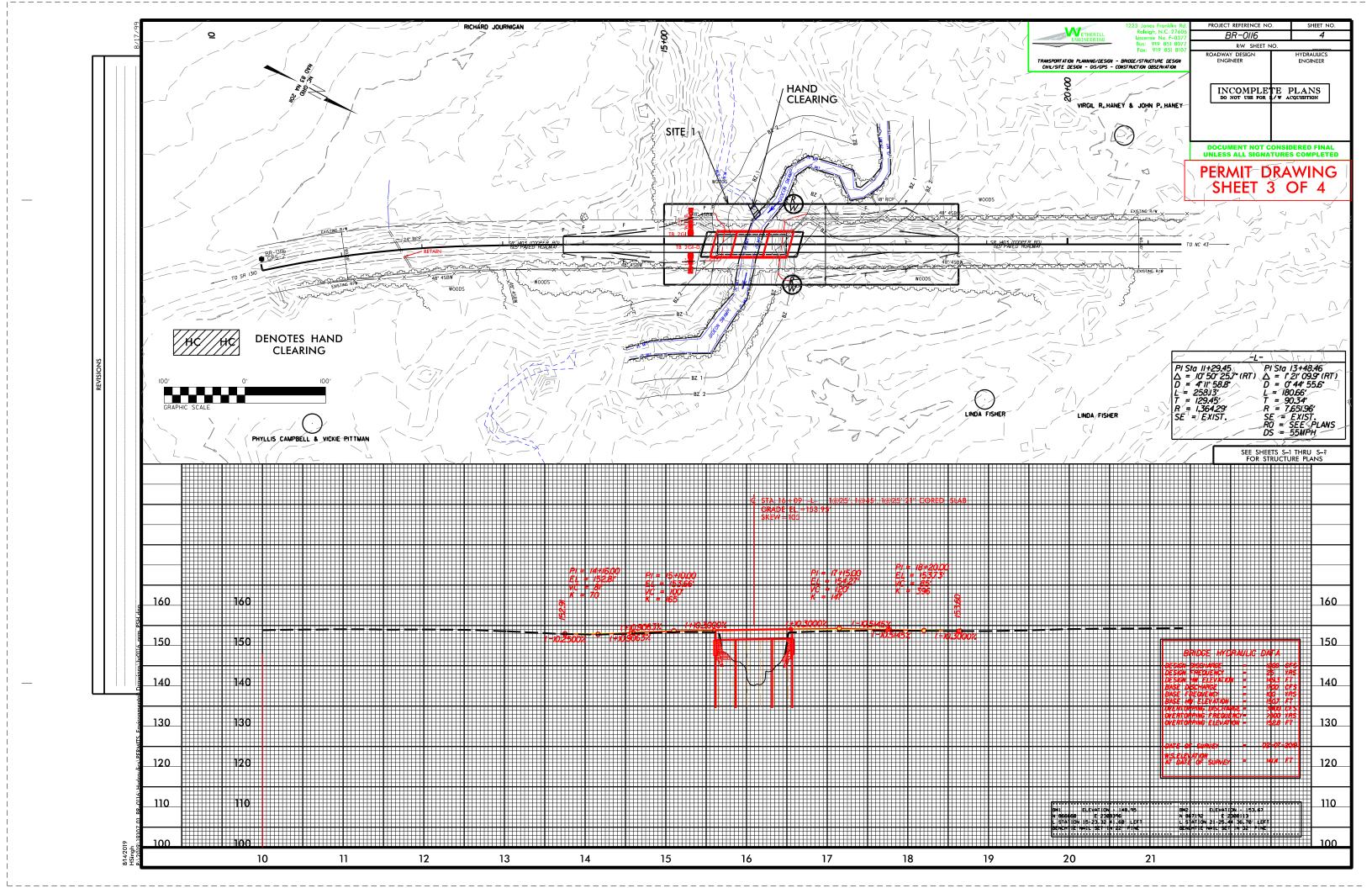
HYDRAULICS ENGINEER

SIGNATURE: ROADWAY DESIGN

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION







				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	'-L- 15+00 to 17+00	Fill slope/ROW					< 0.01				35	
												+
												+
OTALS*:							< 0.01			0	35	

^{*}Rounded totals are sum of actual impacts

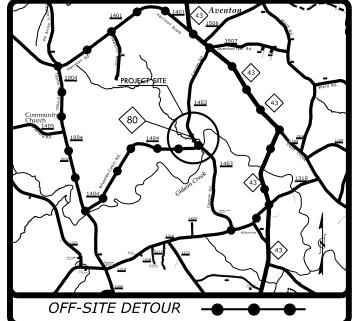
NOTES: Hand Clearing = 110 sq ft

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
8/6/2019
NASH COUNTY
BR-0116

SHEET 4 OF 4

Revised 2013 10 24

See Sheet 1-A For Index of Sheets See Sheet 1-B For Conventional Symbols See Sheet 1C-1 TO 1C-2 For Survey Control Sheets



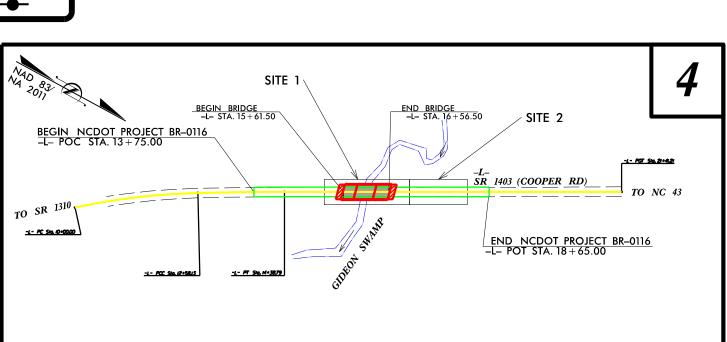
STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

NASH COUNTY

LOCATION: BRIDGE NO. 630080 OVER GIDEON SWAMP ON SR 1403 (COOPER RD.)

TYPE OF WORK: GRADING, DRAINAGE, PAVING & STRUCTURE

BUFFER IMPACTS PERMIT



N.C. BR-0116 1 DESCRIPTION 67116.1.1 PΕ WETHERILL



TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN CNIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

BRIDGE #630080

BUFFER DRAWING SHEET 1 OF 4

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

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

0110

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PR

DESIGN DATA GRAPHIC SCALES PROFILE (HORIZONTAL) RURAL LOCAL PROFILE (VERTICAL) SUBREGIONAL TIER

ADT 2019 = 310T = 6 %V = 55 MPH(TTST = 3% +DUAL = 3%FUNC CLASS =

PROJECT LENGTH

LENGTH ROADWAY PROJECT BR-0116 = LENGTH STRUCTURE PROJECT BR-0116 = TOTAL LENGTH PROJECT BR-0116 =

NCDOT CONTACT:

0.079 MILES 2018 STANDARD SPECIFICATIONS 0.020 MILES 0.099 MILES

RIGHT OF WAY DATE: APRIL 3, 2019 LETTING DATE: OCTOBER 3, 2019

EDWARD G, WETHERILL, PE GREG S. PURVIS, PE

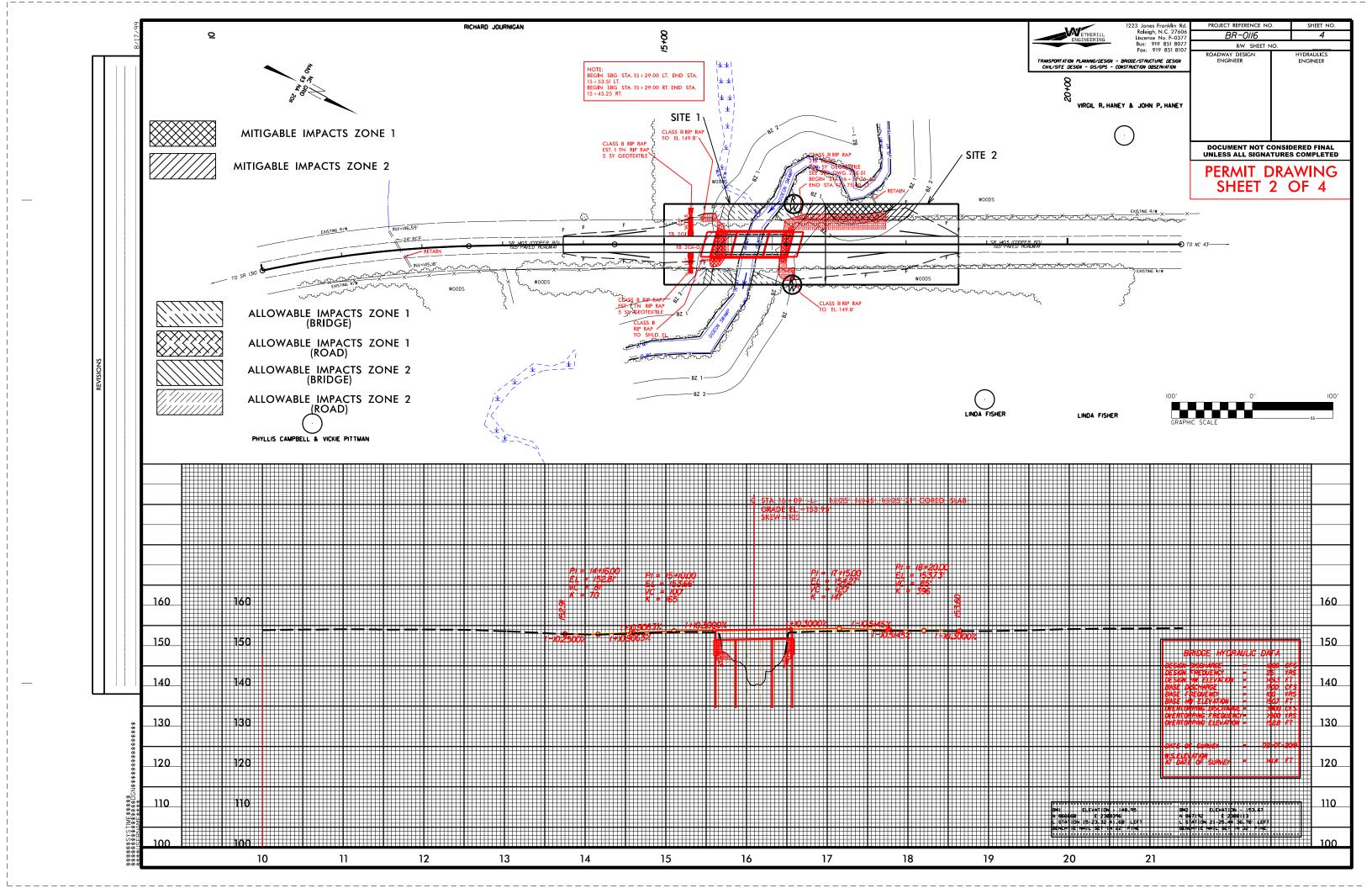
DIVISION OF HIGHWAYS

STRUCTURES MANAGMENT UNIT 1000 BIRCH RIDGE DRIVE RALEIGH NC, 27610

HYDRAULICS ENGINEER

SIGNATURE: ROADWAY DESIGN





BUFFER IMPACTS SUMMARY													
			IMPACT					BUFFER					
				TYPE ALLOWABLE MITIGABLE		LE	REPLACEMENT						
SITE NO.	STRUCTURE SIZE / TYPE	STATION (FROM/TO)	ROAD CROSSING	BRIDGE	PARALLEL IMPACT	ZONE 1 (ft ²)	ZONE 2 (ft ²)	TOTAL (ft²)	ZONE 1 (ft ²)	ZONE 2 (ft ²)	TOTAL (ft²)	ZONE 1 (ft ²)	ZONE 2 (ft ²)
1	95' Bridge	-L- 15+30 to 16+85	х			211	555	766					
1	95' Bridge	-L- 15+60 to 16+55		х		2113	367	2480					
2	Roadway	-L- 17+00 to 18+15			Х				1425.0	1162.0	2587		
TOTAL:						2324	922	3246	1425	1162	2587	0	0

N.C. DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS

> NASH CO. BR-0116

Bridge #630080 on SR 1430 (Cooper Rd.)

SHEET 3 of 4 8/2/2019

WETLANDS IN BUFFER IMPACTS SUMMARY WETLANDS IN **BUFFERS** ZONE 1 ZONE 2 (ft²) SITE NO. STATION (FROM/TO) (ft²) -L- 16+04 to 16+20 110 TOTAL: 110 N.C. DEPT. OF TRANSPORTATION

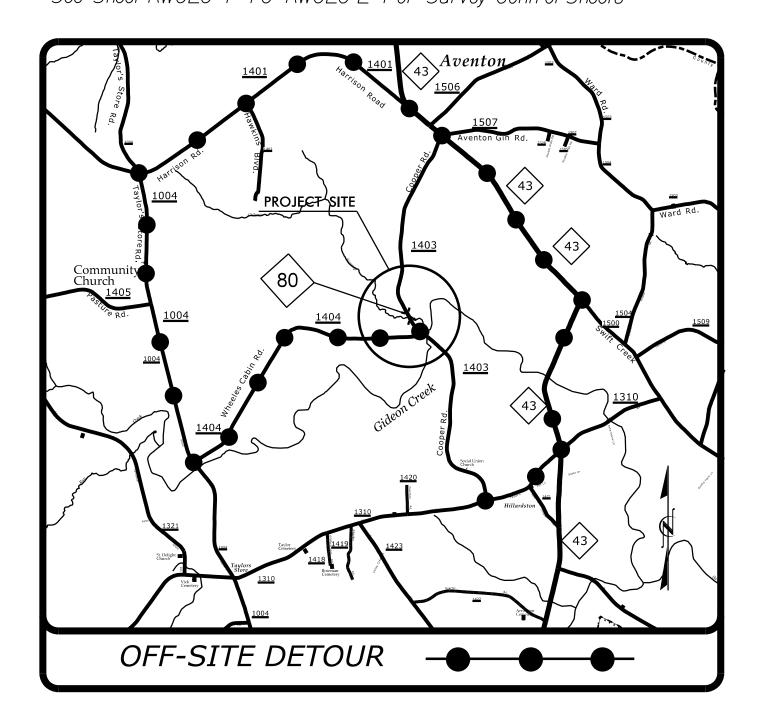
DIVISION OF HIGHWAYS

NASH CO. BR-0116

Bridge #630080 on SR 1430 (Cooper Rd.) 8/2/2019 SHEET 4 OF 4 ROJECT: BR-0116

ONTRACT:

See Sheet 1-A For Index of Sheets See Sheet 1-B For Conventional Symbols See Sheet RWO2C-1 TO RWO2C-2 For Survey Control Sheets



STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

NASH COUNTY

LOCATION: BRIDGE NO. 630080 OVER GIDEON SWAMP
ON SR 1403 (COOPER RD.)

TYPE OF WORK: GRADING, DRAINAGE, PAVING & STRUCTURE

STATE	STATE I	STATE PROJECT REFERENCE NO.		SHEET NO.	TOTAL SHEETS
N.C.	В	BR-0116			
STAT	E PROJ. NO.	F. A. PROJ. NO.		DESCRIPT	ION
48	825.1.1			PE	
48	825.2.1			ROW/U	TIL.
48	825.3.1			CONS	ST.

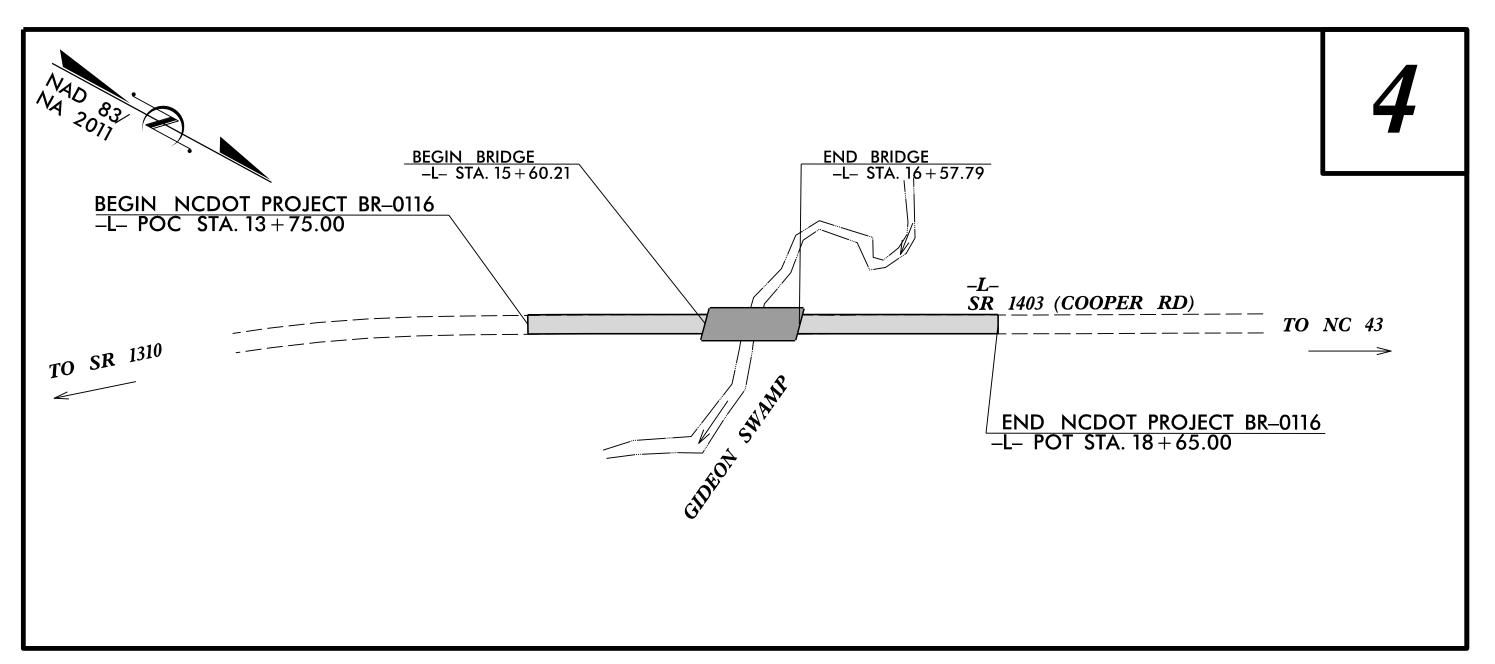


1223 Jones Franklin Rd. Raleigh, N.C. 27606 License No. F–0377 Bus: 919 851 8077 Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

BRIDGE #630080

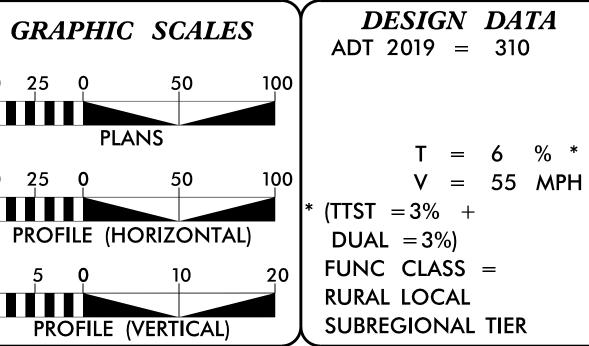
ROW PLANS



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

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED





PROJECT LENGTH LENGTH ROADWAY PROJECT BR-0116 = 0.075 MILES LENGTH STRUCTURE PROJECT BR-0116 = 0.018 MILES TOTAL LENGTH PROJECT BR-0116 = 0.093 MILES

STRUCTURE PROJECT BR-0116 = 0.018 MILES

ENGTH PROJECT BR-0116 = 0.093 MILES

| DAVID STUTTS, PE | PROJECT ENGINEER - PEF/PROGRAM MGT. | DAVID STUTTS, PE | PROJECT ENGINEER - PEF/PROGRAM MGT. | DAVID STUTTS, PE | PROJECT ENGINEER - PEF/PROGRAM MGT. | DAVID STUTTS, PE | PROJECT DESIGN

DIVISION OF HIGHWAYS
STRUCTURES MANAGMENT UNIT
1000 BIRCH RIDGE DRIVE RALEIGH NC, 27610

2018 STANDARD SPECIFICATIONS
0.018 MILES
0.093 MILES

LETTING DATE:
UNIT GREG S. PURVIS, PE
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

HYDRAULICS ENGINEER

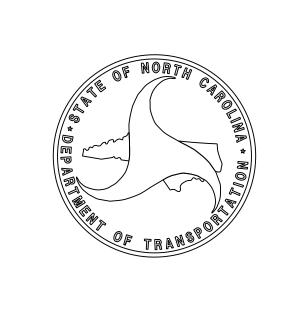
HYDRAULICS ENGINEER

HYDRAULICS ENGINEER

ROADWAY DESIGN
ENGINEER

ROADWAY DESIGN
ENGINEER

SIGNATURE:



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STAT

		CONVENTION	ΔΙ ΡΙ
BOUNDARIES AND PROPERT	Y :	Note: Not to	
State Line ————————————————————————————————————		RAILRUADS:	+++++++
County Line		Standard Gauge	CSX TRANSPORTATION
Township Line —	·	RR Signal Milepost	MILEPOST 35
City Line		Switch —	SWITCH
Reservation Line	· ·	RR Abandoned	
Property Line		RR Dismantled	
Existing Iron Pin ——————————————————————————————————	<u>.</u>		
Computed Property Corner —	×	RIGHT OF WAY & PROJECT CO	ONTROL:
Property Monument —		Secondary Horiz and Vert Control Point ——	•
Parcel/Sequence Number —————		Primary Horiz Control Point	
Existing Fence Line ————————————————————————————————————	xxx_	Primary Horiz and Vert Control Point	
Proposed Woven Wire Fence		Exist Permanent Easment Pin and Cap ———	\diamondsuit
Proposed Chain Link Fence		New Permanent Easement Pin and Cap ——	♦
Proposed Barbed Wire Fence		Vertical Benchmark ————————————————————————————————————	
Existing Wetland Boundary —————		Existing Right of Way Marker	\triangle
Proposed Wetland Boundary	WLB	Existing Right of Way Line	
Existing Endangered Animal Boundary —		New Right of Way Line	$\frac{R}{W}$
Existing Endangered Plant Boundary		New Right of Way Line with Pin and Cap—	$\frac{\mathbb{R}}{\mathbb{R}}$
	———— HPB ———————————————————————————————	New Right of Way Line with	
Known Contamination Area: Soil ———		Concrete or Granite R/W Marker	
Potential Contamination Area: Soil ———		New Control of Access Line with	
Known Contamination Area: Water		Concrete C/A Marker	
Potential Contamination Area: Water ——		Existing Control of Access	
Contaminated Site: Known or Potential —		New Control of Access ——————————————————————————————————	Δ
BUILDINGS AND OTHER CUI		Existing Easement Line ————————————————————————————————————	—— E ———
Gas Pump Vent or U/G Tank Cap		New Temporary Construction Easement –	——Е——
Sign —	<u> </u>	. ,	TDE
Well ———————————————————————————————————	s 	New Permanent Drainage Easement ——	PDE
Small Mine		New Permanent Drainage / Utility Easement	——— DUE———
Foundation —		New Permanent Utility Easement ————	
Area Outline ————————————————————————————————————		New Temporary Utility Easement ———	TUE
Cemetery —		New Aerial Utility Easement —————	AUE
Building —			TC
School —		ROADS AND RELATED FEATUR.	
Church —		Existing Edge of Pavement	
		Existing Curb	
Dam ————————————————————————————————————		Proposed Slope Stakes Cut	
<i>HYDROLOGY:</i> Stream or Body of Water ————————————————————————————————————		Proposed Slope Stakes Fill —————	<u>_</u>
Hydro, Pool or Reservoir ————————————————————————————————————		Proposed Curb Ramp	CR
		Existing Metal Guardrail —————	
Iurisdictional StreamBuffer Zone 1		Proposed Guardrail —————	
Buffer Zone 1 ———————————————————————————————————		Existing Cable Guiderail	
Flow Arrow ———————————————————————————————————		Proposed Cable Guiderail	
Disappearing Stream ————————————————————————————————————		Equality Symbol	lacktriangle
Spring ————————————————————————————————————		Pavement Removal ————————————————————————————————————	
Wetland —		VEGETATION:	
Proposed Lateral, Tail, Head Ditch —		Single Tree	· &
False Sump	< FLOW	Single Shrub	÷ \$
1 4136 JUILIP	-		

Hedge ———	······································
Woods Line ————	
Orchard ————	සි සි සි සි
ineyard ————————	Vineyard
EXISTING STRUCTURES:	
AJOR:	
Bridge, Tunnel or Box Culvert ———— [CONC
Bridge Wing Wall, Head Wall and End Wall —) CONC WW (
INOR:	
Head and End Wall ——————————————————————————————————	CONC HW
Pipe Culvert	
ootbridge ————————————————————————————————————	
Orainage Box: Catch Basin, DI or JB	СВ
Paved Ditch Gutter ———————————————————————————————————	
Storm Sewer Manhole ————	(\$)
Storm Sewer ———————————————————————————————————	S
UTILITIES:	
OWER:	
xisting Power Pole ————	
roposed Power Pole	6
xisting Joint Use Pole ————	
roposed Joint Use Pole	-6-
ower Manhole —————	P
ower Line Tower ————	\boxtimes
ower Transformer ————	otin
/G Power Cable Hand Hole ————	
I_Frame Pole	•—•
G Power Line LOS B (S.U.E.*)	— — — P— — — —
G Power Line LOS C (S.U.E.*)	
G Power Line LOS D (S.U.E.*)	P
LEPHONE:	
Svicting Tolophone Pole ——	
roposed Telephone Pole ————————————————————————————————————	- O-
elephone Manhole	T
elephone Mannole ————————————————————————————————————	
elephone Cell Tower ————————————————————————————————————	<u></u>
VG Telephone Cable Hand Hole ————	HH
VG Telephone Cable Hand Hole VG Telephone Cable LOS B (S.U.E.*)	_
I/G Telephone Cable LOS C (S.U.E.*)	
G Telephone Cable LOS D (S.U.E.*)	
J/G Telephone Conduit LOS B (S.U.E.*) —	
G Telephone Conduit LOS C (S.U.E.*)	
10 = 1 1 1 0 0 1 1 1 1 0 0 0 (0.0.L.)	

U/G Fiber Optics Cable LOS B (S.U.E.*) — -----

U/G Fiber Optics Cable LOS C (S.U.E.*) ------

U/G Fiber Optics Cable LOS D (S.U.E.*)—— T FO ———

WATER:	
Water Manhole —————	W
Water Meter ———————————————————————————————————	0
Water Valve ——————	\otimes
Water Hydrant	\$
U/G Water Line LOS B (S.U.E*)	
U/G Water Line LOS C (S.U.E*)	
U/G Water Line LOS D (S.U.E*)	
Above Ground Water Line	A/G Water
TV:	
TV Pedestal ————————————————————————————————————	C
TV Tower —	\otimes
U/G TV Cable Hand Hole —————	H _H
U/G TV Cable LOS B (S.U.E.*)	
U/G TV Cable LOS C (S.U.E.*)	
U/G TV Cable LOS D (S.U.E.*)	Tv
U/G Fiber Optic Cable LOS B (S.U.E.*) ——	TV FO
U/G Fiber Optic Cable LOS C (S.U.E.*) ——	
U/G Fiber Optic Cable LOS D (S.U.E.*)	TV FO
GAS:	
Gas Valve	\Diamond
Gas Meter ———————————————————————————————————	\Diamond
U/G Gas Line LOS B (S.U.E.*)	c
U/G Gas Line LOS C (S.U.E.*)	——————————————————————————————————————
U/G Gas Line LOS D (S.U.E.*)———	G
Above Ground Gas Line	A/G Gas
SANITARY SEWER:	
Sanitary Sewer Manhole	(
Sanitary Sewer Cleanout ——————	(
U/G Sanitary Sewer Line —————	ss
Above Ground Sanitary Sewer —	A/G Sanitary Sewer
SS Forced Main Line LOS B (S.U.E.*) ———	
SS Forced Main Line LOS C (S.U.E.*)	—— — —FSS — — ——
SS Forced Main Line LOS D (S.U.E.*)	
MISCELLANEOUS:	
Utility Pole —	•
Utility Pole with Base ————————————————————————————————————	•
Utility Located Object ————————————————————————————————————	
Utility Traffic Signal Box	
Utility Unknown U/G Line LOS B (S.U.E.*)	
U/G Tank; Water, Gas, Oil	
Underground Storage Tank, Approx. Loc. —	UST
A/G Tank; Water, Gas, Oil	
Geoenvironmental Boring	lacktriangle
U/G Test Hole LOS A (S.U.E.*)	
Abandoned According to Utility Records —	
End of Information —————	E.O.I.

BR-0116

