

## STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

JOSH STEIN

GOVERNOR

DANIEL H. JOHNSON

SECRETARY

October 17, 2025

MEMORANDUM TO: Division Environmental and Construction Units

FROM: Michael A. Turchy, ECAP Group Leader Environmental Analysis Unit

Environmental Analysis Chi

SUBJECT: Environmental Permits for the Replacement of Bridge 227 on SR 1310

over the Nantahala River in Macon County, Division 14, TIP: BR-0052.

Conveyance Authorization for the Federal Energy Regulatory Commission c/o Duke Energy has not been received. Bridgework over the Nantahala River is not authorized until receipt.

Please find enclosed the following permits for this project:

Agency	Permit Type	Permit Expiration		
US Army Corps of Engineers Section 404 Clean Water Act Permit	Regional General Permit 50	May 25, 2025		
NC Division of Water Resources Section 401 Water Quality Certification	General Certification No. 4135 [RGP50]	May 25, 2025		

Work is authorized by the above referenced permit provided it is accomplished in strict accordance with the permitted plans.

The Environmental Coordination and Permitting Group or the Division Environmental Office must be consulted if any deviation from the permit(s) or accompanying drawings is required.

The General Conditions and Certifications for Nationwide and Regional Permits can be referenced at: https://xfer.services.ncdot.gov/pdea/PermIssued/ General Conditions and Certifications/

#### **U.S. ARMY CORPS OF ENGINEERS**

WILMINGTON DISTRICT

Action Id. SAW-2023-01503 County: Macon County U.S.G.S. Quad: Hewitt

#### **GENERAL PERMIT (REGIONAL AND NATIONWIDE) VERIFICATION**

Permittee: North Carolina Department of Transportation

Mr. Jeffrey Hemphill

Address: <u>1598 Mail Service Center</u>

Raleigh NC, 27699

Nearest Town Beechertown

Nearest Waterway Nantahala River
USGS HUC
River Basin Upper Tennessee
Coordinates Latitude: 35.27044;

Longitude: <u>-83.6738</u>

Location description: The Bridge No. 227 (BR-0052) replacement project is located where Wayah Road crosses the Nantahala River, approximately 0.6 mile east of the intersection of Wayah Road and US 74 in Beechertown, Macon County, North Carolina

Description of projects area and activity: <u>This permit verification authorizes the replacement of a structurally deficient bridge with a new bridge in the same location. The project will result in the permanent impact to 58 If of stream channel and the temporary impact to 76 If of stream channel.</u>

Applicable Law:	Section 404 (Clean Water Act, 33 USC 1344);
	Section 10 (Rivers and Harbors Act, 33 USC 403)

Authorization: Regional General Permit Number and/or Nationwide Permit Number: **GP 50 - NCDOT** - **Bridge, Road Widenings and Interchanges** 

SEE ATTACHED RGP or NWP GENERAL, REGIONAL AND/OR SPECIAL CONDITIONS

#### **Special Conditions**

- 1) Per the USFWS 1/30/2024 letter, NCDOT will do the following:
  - a. Tree clearing will take place from October 16 to March 31.
  - b. <u>Tree clearing will be minimized to the maximum extent possible and limits will be clearly marked for the contractor.</u>
  - c. The existing bridges will be surveyed within 14 days of construction to ensure absence of roosting bats. The U.S. Fish and Wildlife Service (Service) Asheville Field Office will be contacted immediately if bats are observed.
  - d. Blasting during the bat pup season (May 15 July 31) will be avoided to the maximum extent r, construction constraints and unforeseen site circumstances may necessitate some blasting during this period.
  - e. Night work will not occur.
  - f. No additional permanent lighting will be added to the roadway.
  - g. <u>Design Standards in Sensitive Watersheds will be followed for the project's Sediment</u> and Erosion Control procedures.
  - h. <u>Any construction vehicles or equipment will be power washed prior to entering the bridge project areas to help eliminate introduction/spread of non-native invasive species.</u>
- 2) NCDOT will develop a boater safety plan pursuant to Duke's FERC Permit and will forward to the Corps once it's finalized. Absent the final boater safety plan, NCDOT has committed to the following conditions:

- a. The temporary work pads will not block more than 50% of the river and will also not create a hazardous situation or velocities that are any higher than the natural conditions found up and downstream of the river.
- b. There will be a signage component to direct paddlers to the safest passage, when that direction is required, during construction.
- c. No beams or equipment will be hoisted while boaters [or anyone] is present underneath.
- d. No components of the bridge will be dropped into the water.
- e. <u>During the removal process, overhead removal will temporarily pause while boaters are present.</u>
- 3) Per the NC Wildlife Resources Commission, NCDOT is prohibited from doing any in-stream work and land disturbance within the 25-foot trout buffer from October 15 to April 15 to protect trout spawning. Additionally, Design Standards in Sensitive Watersheds shall be implemented with this project.
- 4) The Permittee shall implement commitments as described in the Historic Architecture and Landscapes Assessment of Effects Form (enclosed) to ensure no adverse effect to historic architecture resources.

Your work is authorized by the above referenced permit provided it is accomplished in strict accordance with the attached conditions and your submitted application dated <u>July 21, 2023</u> and ensuing record. Any violation of the attached conditions or deviation from your submitted plans may subject the permittee to a stop work order, a restoration order, a Class I administrative penalty, and/or appropriate legal action.

This verification will remain valid until the expiration date identified below unless the nationwide and/or regional general permit authorization is modified, suspended or revoked. If, prior to the expiration date identified below, the nationwide and/or regional general permit authorization is reissued and/or modified, this verification will remain valid until the expiration date identified below, provided it complies with all requirements of the modified nationwide permit. If the nationwide and/or regional general permit authorization expires or is suspended, revoked, or is modified, such that the activity would no longer comply with the terms and conditions of the nationwide permit, activities which have commenced (i.e., are under construction) or are under contract to commence in reliance upon the nationwide and/or regional general permit, will remain authorized provided the activity is completed within twelve months of the date of the nationwide and/or regional general permit's expiration, modification or revocation, unless discretionary authority has been exercised on a case-by-case basis to modify, suspend or revoke the authorization.

Activities subject to Section 404 (as indicated above) may also require an individual Section 401 Water Quality Certification. You should contact the NC Division of Water Resources (telephone 919-807-6300) to determine Section 401 requirements.

For activities occurring within the twenty coastal counties subject to regulation under the Coastal Area Management Act (CAMA), prior to beginning work you must contact the N.C. Division of Coastal Management in Morehead City, NC, at (252) 808-2808.

This Department of the Army verification does not relieve the permittee of the responsibility to obtain any other required Federal, State or local approvals/permits.

If there are any questions regarding this verification, any of the conditions of the Permit, or the Corps of Engineers regulatory program, please contact <u>Crystal Amschler at (828) 526-6013 or Crystal.C.Amschler@usace.army.mil</u>.

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The Wilmington District is committed to providing the highest level of support to the public. To help us ensure we continue to do so, please complete our Customer Satisfaction Survey, located online at <a href="https://regulatory.ops.usace.army.mil/customer-service-survey/">https://regulatory.ops.usace.army.mil/customer-service-survey/</a>

Date: March 21, 2024

Action ID Number:	SAW-2023-01503	County: Ma	acon County
Permittee:	North Carolina Department Mr. Jeffrey Hemphill	nt of Transp	<u>oortation</u>
Address:	1598 Mail Service Center Raleigh NC, 27699		
Project Name:	Bridge No. 227 (BR-0052)	replacemen	nt project
Date Verification Is	ssued: <u>March 21, 2024</u>		
Project Manager: <u>(</u>	Crystal Amschler		
	-	•	
	Attn: Crystal An	nschler, Project	et Manager
	Asheville, N	orth Carolina 2	28801
Corps of Engineer authorization may	s representative. Failure t result in the Corps suspe	to comply wi nding, modif	rith any terms or conditions of this ifying or revoking the authorization
in accordance with	the terms and condition	of the said p	· · · · · · · · · · · · · · · · · · ·
Mr. Jeffrey Hemphill Address: 1598 Mail Service Center Raleigh NC, 27699			
Signature of Perm	ittee	_	Date

17-12-0042



#### HISTORIC ARCHITECTURE AND LANDSCAPES ASSESSMENT OF EFFECTS FORM

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

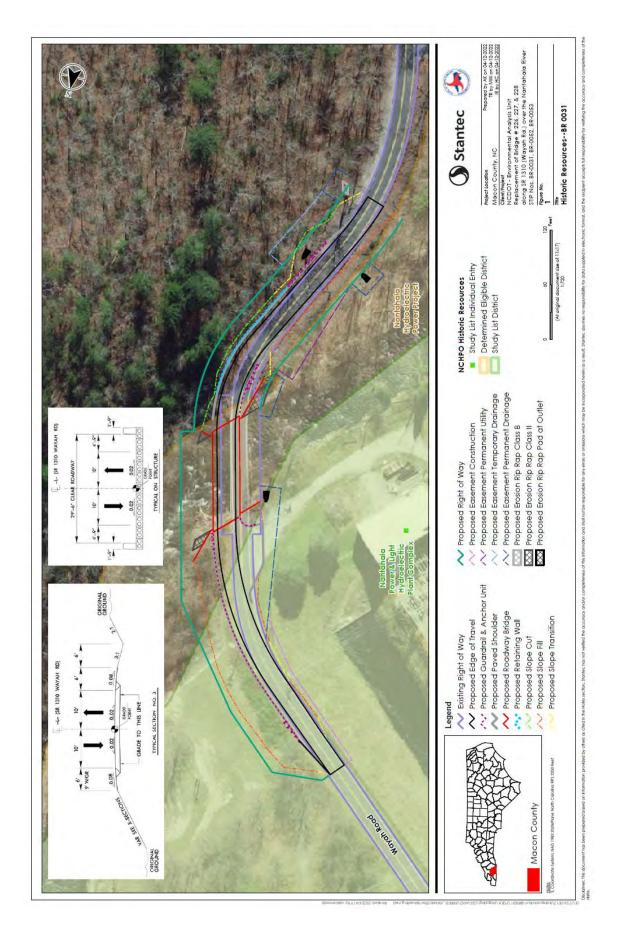
	PROJECT 1	NFORMATIO	N
Project No:	BR-0031, BR-0052	County:	Macon
WBS No.:	67031.3.1	Document Type:	MCC
Fed. Aid No:	N/A	Funding:	State Federal
Federal	∑ Yes ☐ No	Permit	USACE
Permit(s):		Type(s):	
<b>Project Descriptio</b>	<u>n</u> :		
Replace Bridge No	os. 226 and 227 on SR 1310 (	Wayah Road) ov	ver Nantahala River.
Description of rev Review of HPO qu	<i>iew activities, results, and co</i> uad maps, HPO GIS informa	<i>nclusions</i> : tion, historic des	ignations roster, and indexes was
	nuary 8, 2018. Based on this Power and Light Complex.		oject falls within the Determined f effects is required.
	ASSESSME	NT OF EFFEC	ΓS
Property Name:	Nantahala Hydroelectric Power Project	Status:	Determined Eligible
Survey Site No.:		PIN:	
Effects  No Effect	⊠ No Adve	erse Effect	Adverse Effect
Explanation of Ef	fects Determination:		
	dverse effect with the followi	ng environmenta	al commitments listed below.
List of Environme	ental Commitments:		
1. Maintain R	light of Way		
2. Oregon Ra	il to be utilized for bridge rai	ls	
3. Retaining v	walls will utilize a natural sto	ne design	

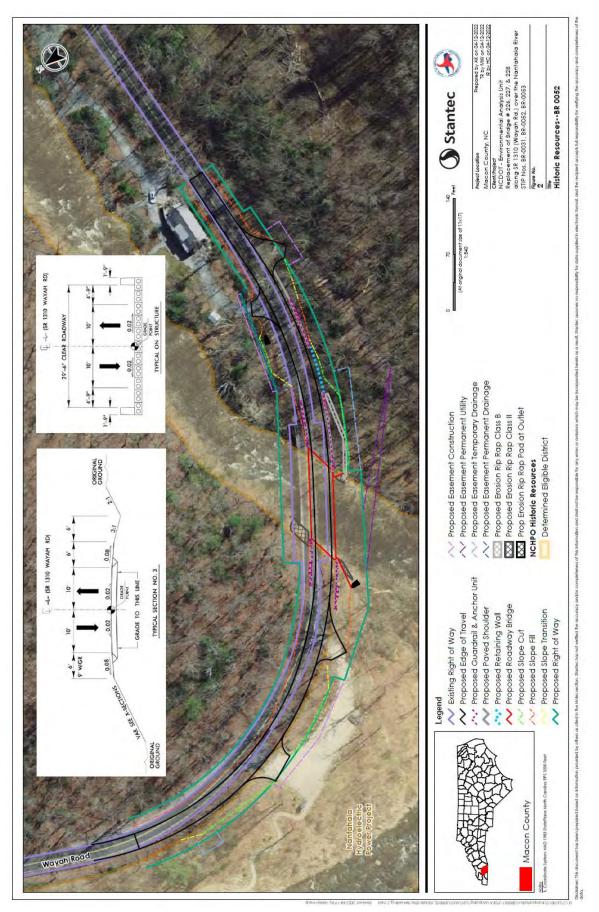
FHWA Intends to use the State Historic Preservation Office's concurrence as a basis for a "de minimis" finding for the following properties, pursuant to Section 4(f):

Nantahala Hydroelectric Power Project

#### SUPPORT DOCUMENTATION

☐Map(s)	Previous Survey Info.	Photos	Correspondence	Design Plans
FIN	NDING BY NCDOT AND ST	TATE HISTO	RIC PRESERVATION	N OFFICE
Historic Arc	chitecture and Landscapes – A	SSESSMENT (	OF EFFECTS	
Kath	usigned by: Verine Husband EECA930B040B		04/28/2022	
NCDOT Ar	chitectural Historian		Date	
Rene	Signed by: e Gledhill-Earley 1556A275464		04/29/2022	
State Histor	ic Preservation Office Represe	entative	Date	
Setu	igned by: Wildur 500F8714F0.		05/02/2022	
Federal Age	ency Representative		Date	





ROY COOPER Governor ELIZABETH S. BISER Secretary RICHARD E. ROGERS, JR. Director



August 22, 2023

DWR # 20231043 Macon County

Mr. Michael Turchy North Carolina Department of Transportation 1598 Mail Service Center Raleigh, NC 27699-1598

Subject: APPROVAL OF 401 WATER QUALITY CERTIFICATION WITH ADDITIONAL

**CONDITIONS** 

Replace Bridge 227 on SR 1310 over the Nantahala River (BR-0052) Nantahala River [Little Tennessee River Basin, 06010202, B; Trout]

Dear Mr. Turchy:

You have our approval for the impacts listed below for the purpose described in your application dated July 21, 2023, and received by the Division of Water Resources (Division) on July 21, 2023. These impacts are covered by the attached Water Quality General Certification Number 4135 and the conditions listed below. This certification is associated with the use of General Permit Number 201902350 once it is issued to you by the U.S. Army Corps of Engineers. Please note that you should get any other federal, state, or local permits before proceeding with your project, including those required by (but not limited to) Sediment and Erosion Control, Non-Discharge, and Water Supply Watershed regulations.

The Division has determined that the proposed project will comply with water quality requirements provided that you adhere to the conditions listed in the enclosed certification and to the additional conditions itemized below.

The following proposed impacts are hereby approved. No other impacts are approved, including incidental impacts. [15A NCAC 02H .0506(b)]

#### Stream Impacts in the Little Tennessee River Basin

Site	in Intermittent	Temporary Fill in Intermittent Stream (linear ft)	in Perennial	in Perennial	Total Stream Impact (linear ft)	Stream Impacts Requiring Mitigation (linear ft)	
S1			58		58		
S2				62	62		
S3				14	14		
Total			58	76	134		

Total Stream Impact for Project: 58 linear feet of permanent and 76 linear feet of temporary.

This approval is for the purpose and design described in your application. The plans and specifications for this project are incorporated by reference as part of this Certification. If you change your project, you must notify the Division and you may be required to submit a new application package with the appropriate fee. If the property is



sold, the new owner must be given a copy of this Certification and is responsible for complying with all conditions. [15A NCAC 02H .0507(d)(2)].

If you are unable to comply with any of the conditions of the attached Water Quality General Certification or with the additional conditions itemized below, you must notify the Asheville Regional Office within 24 hours (or the next business day if a weekend or holiday) from the time the permittee becomes aware of the circumstances.

The permittee shall report to the Asheville Regional Office any noncompliance with, and/or any violation of, stream or wetland standards [15A NCAC 02B .0200] including but not limited to sediment impacts to streams or wetlands. Information shall be provided orally within 24 hours (or the next business day if a weekend or holiday) from the time the permittee became aware of the non-compliance circumstances.

#### **Condition(s) of Certification:**

#### **Project Specific Conditions**

- 1. The NCDOT Division Environmental Officer or Environmental Assistant will conduct a preconstruction meeting with all appropriate staff to ensure that the project supervisor and essential staff understand potential issues at the permitted site. NCDWR staff shall be invited to the pre-construction meeting. [15A NCAC 02H.0506(b)(2) and (b)(3)]
- 2. For projects impacting waters classified by the NC Environmental Management Commission as Trout (Tr), stormwater shall be directed to vegetated buffer areas, grass-lined ditches or other means appropriate to the site for the purpose of pre-treating storm water runoff prior to discharging directly into streams. Mowing of existing vegetated buffers is strongly discouraged. [15A NCAC 02H.0506(b)(2)]
- 3. The permittee will need to adhere to all appropriate in-water work moratoria (including the use of pile driving or vibration techniques) prescribed by the NC Wildlife Resources Commission. No in-water work is permitted between October 15 and April 15 of any year, without prior approval from the NC Division of Water Resources and the NC Wildlife Resources Commission.
  - In-stream work and land disturbance within the 25-foot buffer zone are prohibited during the trout-spawning season of October 15 through April 15 to protect the egg and fry stages of trout. [15A NCAC 02H .0506(b)(2)]
- 4. The permittee shall use Design Standards in Sensitive Watersheds in areas draining to Trout Waters. [15A NCAC 4B.0124 (a)-(e)]
- 5. As a condition of this 401 Water Quality Certification, the bridge demolition and construction must be accomplished in strict compliance with the most recent version of NCDOT's Best Management Practices for Construction and Maintenance Activities. [15A NCAC 02H .0506(b)(2)]
- 6. No drill slurry or water that has been in contact with uncured concrete shall be allowed to enter surface waters. This water shall be captured, treated, and disposed of properly. [15A NCAC 02H .0506(b)(3)]
- 7. Bridge deck drains shall not discharge directly into the stream. Stormwater shall be directed across the bridge and pre-treated through site-appropriate means (grassed swales, pre-formed scour holes, vegetated buffers, etc.) before entering the stream. To meet the requirements of NCDOT's NPDES permit NCS000250, please refer to the most recent version of the *North Carolina Department of Transportation Stormwater Best Management Practices Toolbox* manual for approved measures. [15A NCAC 02H .0507(d)(2) and 15A NCAC 02H .0506(b)(2)]
- 8. Provide advanced notice of construction to Dave McHenry with the North Carolina Wildlife Resources Commission so that he may advise the site contractor about ways to minimize possible impacts to the Eastern Hellbender (NC Special Concern). [15A NCAC 02H .0506(b)(1) and (2)]



#### **General Conditions**

- 1. Unless otherwise approved in this certification, placement of culverts and other structures in open waters and streams shall be placed below the elevation of the streambed by one foot for all culverts with a diameter greater than 48 inches, and 20 percent of the culvert diameter for culverts having a diameter less than 48 inches, to allow low flow passage of water and aquatic life. Design and placement of culverts and other structures including temporary erosion control measures shall not be conducted in a manner that may result in dis-equilibrium of wetlands or streambeds or banks, adjacent to or upstream and downstream of the above structures. The applicant is required to provide evidence that the equilibrium is being maintained if requested in writing by NCDWR. If this condition is unable to be met due to bedrock or other limiting features encountered during construction, please contact NCDWR for guidance on how to proceed and to determine whether or not a permit modification will be required. [15A NCAC 02H.0506(b)(2)]
- 2. If concrete is used during construction, a dry work area shall be maintained to prevent direct contact between curing concrete and stream water. Water that inadvertently contacts uncured concrete shall not be discharged to surface waters due to the potential for elevated pH and possible aquatic life and fish kills. [15A NCAC 02B.0200]
- 3. During the construction of the project, no staging of equipment of any kind is permitted in waters of the U.S. or protected riparian buffers. [15A NCAC 02H.0506(b)(2)]
- 4. The dimension, pattern, and profile of the stream above and below the crossing shall not be modified. Disturbed floodplains and streams shall be restored to natural geomorphic conditions. [15A NCAC 02H.0506(b)(2)]
- 5. The use of rip-rap above the Normal High Water Mark shall be minimized. Any rip-rap placed for stream stabilization shall be placed in stream channels in such a manner that it does not impede aquatic life passage. [15A NCAC 02H.0506(b)(2)]
- 6. The Permittee shall ensure that the final design drawings adhere to the permit and to the permit drawings submitted for approval. [15A NCAC 02H .0507(c) and 15A NCAC 02H .0506 (b)(2)]
- 7. All work in or adjacent to stream waters shall be conducted in a dry work area. Approved BMP measures from the most current version of NCDOT Construction and Maintenance Activities manual such as sandbags, rock berms, cofferdams and other diversion structures shall be used to prevent excavation in flowing water. [15A NCAC 02H.0506(b)(3)]
- 8. Heavy equipment shall be operated from the banks rather than in the stream channel in order to minimize sedimentation and reduce the introduction of other pollutants into the stream. [15A NCAC 02H.0506(b)(3)]
- 9. All mechanized equipment operated near surface waters must be regularly inspected and maintained to prevent contamination of stream waters from fuels, lubricants, hydraulic fluids, or other toxic materials. [15A NCAC 02H.0506(b)(3)]
- 10. No rock, sand or other materials shall be dredged from the stream channel except where authorized by this certification. [15A NCAC 02H.0506(b)(3)]
- 11. Discharging hydroseed mixtures and washing out hydro seeders and other equipment in or adjacent to surface waters is prohibited. [15A NCAC 02H.0506(b)(3)]
- 12. The permittee and its authorized agents shall conduct its activities in a manner consistent with State water quality standards (including any requirements resulting from compliance with §303(d) of the Clean Water Act) and any other appropriate requirements of State and Federal law. If the NCDWR determines that such standards or laws are not being met (including the failure to sustain a designated or achieved use) or



- that State or federal law is being violated, or that further conditions are necessary to assure compliance, the NCDWR may reevaluate and modify this certification. [15A NCAC 02B.0200]
- 13. All fill slopes located in jurisdictional wetlands shall be placed at slopes no flatter than 3:1, unless otherwise authorized by this certification. [15A NCAC 02H.0506(b)(2)]
- 14. A copy of this Water Quality Certification shall be maintained on the construction site at all times. In addition, the Water Quality Certification and all subsequent modifications, if any, shall be maintained with the Division Engineer and the on-site project manager. [15A NCAC 02H .0507(c) and 15A NCAC 02H .0506 (b)(2)]
- 15. The outside buffer, wetland or water boundary located within the construction corridor approved by this authorization shall be clearly marked by highly visible fencing prior to any land disturbing activities. Impacts to areas within the fencing are prohibited unless otherwise authorized by this certification. [15A NCAC 02H.0501 and .0502]
- 16. The issuance of this certification does not exempt the Permittee from complying with any and all statutes, rules, regulations, or ordinances that may be imposed by other government agencies (i.e. local, state, and federal) having jurisdiction, including but not limited to applicable buffer rules, stormwater management rules, soil erosion and sedimentation control requirements, etc.
- 17. The Permittee shall report any violations of this certification to the Division of Water Resources within 24 hours of discovery. [15A NCAC 02B.0506(b)(2)]
- 18. Upon completion of the project (including any impacts at associated borrow or waste sites), the NCDOT Division Engineer shall complete and return the enclosed "Certification of Completion Form" to notify the NCDWR when all work included in the 401 Certification has been completed. [15A NCAC 02H.0502]
- 19. Native riparian vegetation must be reestablished in the riparian areas within the construction limits of the project by the end of the growing season following completion of construction. [15A NCAC 02B.0506(b)(2)]
- 20. There shall be no excavation from, or waste disposal into, jurisdictional wetlands or waters associated with this permit without appropriate modification. Should waste or borrow sites, or access roads to waste or borrow sites, be located in wetlands or streams, compensatory mitigation will be required since that is a direct impact from road construction activities. [15A NCAC 02H.0506(b)(3)]
- 21. Erosion and sediment control practices must be in full compliance with all specifications governing the proper design, installation and operation and maintenance of such Best Management Practices in order to protect surface waters standards [15A NCAC 02H.0506(b)(3)]):
  - a. The erosion and sediment control measures for the project must be designed, installed, operated, and maintained in accordance with the most recent version of the *North Carolina Sediment and Erosion Control Planning and Design Manual*.
  - b. The design, installation, operation, and maintenance of the sediment and erosion control measures must be such that they equal, or exceed, the requirements specified in the most recent version of the *North Carolina Sediment and Erosion Control Manual*. The devices shall be maintained on all construction sites, borrow sites, and waste pile (spoil) projects, including contractor-owned or leased borrow pits associated with the project.
  - c. For borrow pit sites, the erosion and sediment control measures must be designed, installed, operated, and maintained in accordance with the most recent version of the *North Carolina Surface Mining Manual*.
  - d. The reclamation measures and implementation must comply with the reclamation in accordance with the requirements of the Sedimentation Pollution Control Act.
- 22. Sediment and erosion control measures shall not be placed in wetlands or waters unless otherwise approved by this Certification. [15A NCAC 02H.0506(b)(3)]



This approval and its conditions are final and binding unless contested. [G.S. 143-215.5] This Certification can be contested as provided in Chapter 150B of the North Carolina General Statutes by filing a Petition for a Contested Case Hearing (Petition) with the North Carolina Office of Administrative Hearings (OAH) within sixty (60) calendar days. Requirements for filing a Petition are set forth in Chapter 150B of the North Carolina General Statutes and Title 26 of the North Carolina Administrative Code. Additional information regarding requirements for filing a Petition and Petition forms may be accessed at <a href="http://www.ncoah.com/">http://www.ncoah.com/</a> or by calling the OAH Clerk's Office at (919) 431-3000.

One (1) copy of the Petition must also be served to the North Carolina Department of Environmental Quality:

William F. Lane, General Counsel Department of Environmental Quality 1601 Mail Service Center Raleigh, NC 27699-1601

This letter completes the review of the Division under section 401 of the Clean Water Act and 15A NCAC 02H .0500. Please contact Kevin Mitchell at 828-296-4650 or <a href="mailto:kevin.mitchell@deq.nc.gov">kevin.mitchell@deq.nc.gov</a> if you have any questions or concerns.

Sincerely Docusigned by:

amy Chapman

Richard E. Rogers, Jr., Director Division of Water Resources

ec: Crystal Amschler, US Army Corps of Engineers Asheville Regulatory Field Office (via email)
Dave McHenry, NC Wildlife Resources Commission (via email)
Holland Youngman, US Fish and Wildlife Service (via email)
Erin Cheely, NC Department of Transportation (via email)
Jeff Hemphill, NC Department of Transportation (via email)

File Copy





#### North Carolina Department of Transportation

### Highway Stormwater Program STORMWATER MANAGEMENT PLAN



(Version 3.00; Released A	ugust 2021)				FOR NCDOT P	ROJECTS							
WBS Element:	67052.1.1	TIP/Proj No:	BR-0052		County(ies):	Macon			Pag	ge 1	of	2	
				Ge	eneral Project I	nformation							
WRS Element:		67052 1 1					Project	Type:	Bridge Penlacement	Date:	1/4/2022		
	S Element:   67052.1.1   TIP Number:   BR-0052   Project Type:   Bridge Replacement   Date:   1/4/2022												
NCDOT Contact:	Address					Contractor / Design							
	Address:						Address:						
		Raleigh, NC 27699	9-1590					Raleigh, NC	27699-1590				
	Phone:	(919) 707-6738					Phone:	(919) 707-6	763				
	Email:	jlmoore6@ncdot.g	<u>IOV</u>				Email:	cacavalier@	ncdot.gov				
City/Town:			N.	/A		County(ies):	Mac	on					
River Basin(s):		Little Ten	nessee				No	)					
	iect Limits?			1		,	-			·			
					Project Desc	rintion							
Droject Length /lin. r	nilos or footh	124	milo	Currounding I	•								
Project Length (iii. i	illes of feet).	.1341	mile			rational Forcot			Full-time Cite				
				Proposed Projec									
		- 1011			ac.								
Typical Cross Section	on Description:	Two 10' lanes with	6-9' grassed sho	oulders.			Two 9' lanes v	with variable	width grass shoulders.				
Annual Avg Daily Tra	affic (veh/hr/day):	Design/Future	e:	640	Year:	2022	Existing:		600	Ye	ar: 2019	,	
General Proje	ct Narrative:	Project BR-0052 in	nvolves replacem	ent of bridge #5502	227 over the Nar	ntahala River with a to	otal of 0.184 m	ile of roadwo	ork on SR 1310 (Wayah Road	d) in Macon C	ounty. The		
(Description of Min	imization of Water	existing bridge #55	50227, a 1@35'-6	6", 1@35'-0", 1@35	'-6" structure with	h an overall length of	106'-0" and ou	ut-out width	of 20'-0", is to be replaced by	a 2@55'-0" st	ructure with a	n	
Quality In	mpacts)	overall length of 11	10'-0" and out-ou	t width of 33'-0". Th	ne new bridge wil	I be offset from the e	xisting one so	that traffic ca	an be maintained through stag	ged constructi	on.		
		•	ged into the flood	dplain through rip ra	<ul> <li>p. Proposed roa</li> </ul>	dway runoff excludin	g the bridge wi	ill collect in c	ditches and discharge to the N	Nantahala Rive	er and its		
		floodplain.											
												nto a	
			es into the floodp	lain. Runoff along t	the rest of the ro	ad sheets across the	pavement, do	wn the road	way fill slopes, and into a ditcl	h that dischar	jes to the		
		floodplain.											



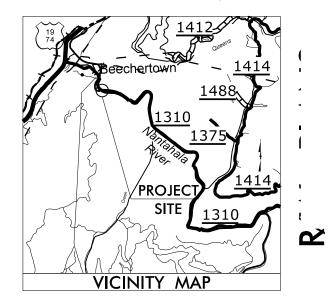
#### North Carolina Department of Transportation



### Highway Stormwater Program STORMWATER MANAGEMENT PLAN

(Version 3.00; Released August 2021)			FOR NCDOT	PROJECTS							
WBS Element: 67052.1.1	TIP/Proj No.:	BR-0052	County(ies):	Macon			Page	2		of	2
			General Project	Information							
Surface Water Body (1):		Nantaha	ala River	NCDWR Stream In	ndex No.:		2-57-(22.5)				
NCDWP Surface Water Classification	for Water Body		Primary Classification:	Class	В						
NCDWR Surface Water Classification	ioi water body		Supplemental Classification:	Trout Water	rs (Tr)						
Other Stream Classification:	No	ne									
Impairments:	No	ne									
Aquatic T&E Species?		Comments:				_					
NRTR Stream ID:						Buffer Rules in Effect:			N/i	A	
Project Includes Bridge Spanning Wa	ter Body?	Yes	Deck Drains Discharge Over Bu	uffer?	N/A	Dissipator Pads Provided	in Buffer?				
Deck Drains Discharge Over Water Bo	ody?	No	(If yes, provide justification in	the General Project	Narrative)				f no, ju	ustify in th	he
(If yes, provide justification in th	e General Project Na	arrative)				Gene	eral Project Nar	rative)			
Surface Water Body (2):				NCDWR Stream In	ndex No.:						
NCDWR Surface Water Classification for Water Body		Primary Classification:									
NCDWR Surface Water Classification	ioi water body		Supplemental Classification:								
Other Stream Classification:											
Impairments:											
Aquatic T&E Species?		Comments:									
NRTR Stream ID:						Buffer Rules in Effect:					
Project Includes Bridge Spanning Wa	ter Body?		Deck Drains Discharge Over Bu	uffer?		Dissipator Pads Provided	in Buffer?				
Deck Drains Discharge Over Water Bo	ody?		(If yes, provide justification in	the General Project	Narrative)				f no, jı	ustify in th	he
(If yes, provide justification in th	e General Project Na	arrative)				Gene	eral Project Nar	rative)			
Surface Water Body (3):				NCDWR Stream In	ndex No.:						
NCDWR Surface Water Classification	for Water Bady		Primary Classification:								
NCDWR Surface Water Classification	ioi water body		Supplemental Classification:								
Other Stream Classification:											
Impairments:											
Aquatic T&E Species?		Comments:									
NRTR Stream ID:						Buffer Rules in Effect:					
Project Includes Bridge Spanning Wa	ter Body?		Deck Drains Discharge Over Bu	uffer?		Dissipator Pads Provided	in Buffer?				
Deck Drains Discharge Over Water Bo	ody?		(If yes, provide justification in	the General Project	Narrative)	(If yes, describe in the Ge			f no, jı	ustify in th	he
(If yes, provide justification in th		arrative)	1			Gene	eral Project Nar	rative)			

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



# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

## MACON COUNTY

67052.1.1 N/A PE
67052.2.1 N/A ROW & UTIL.
67052.3.1 N/A CONST

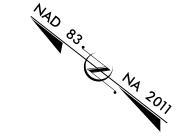
PERMIT DRAWING
SHEET 1 OF 5

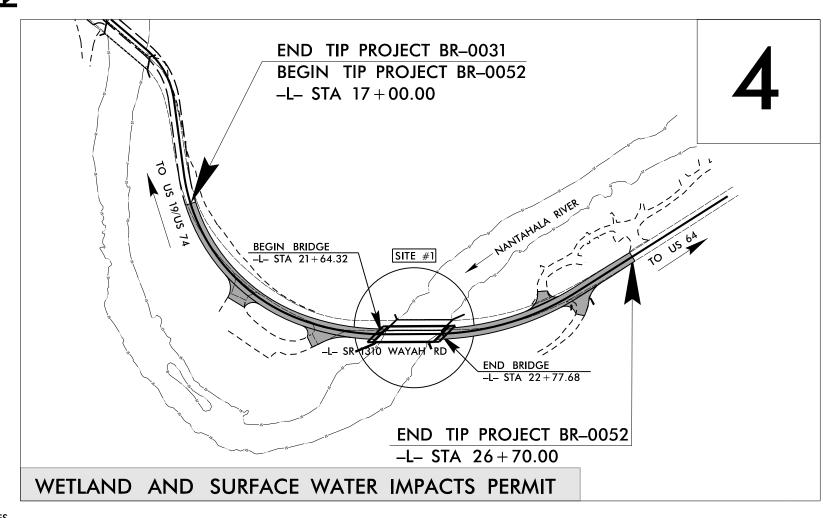
BR-0052

N.C.

LOCATION: BRIDGE NO. 227 ON SR 1310 OVER NANTAHALA RIVER

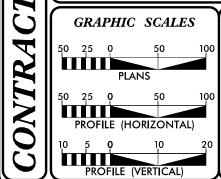
TYPE OF WORK: GRADING, PAVING, DRAINAGE, RETAINING WALL AND STRUCTURE





THIS PROJECT HAS NO CONTROLLED ACCESS
THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



DESIGN EXCEPTION FOR DESIGN SPEED

SUB REGIONAL TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT BR-0052 = 0.163 MI.

LENGTH STRUCTURE TIP PROJECT BR-0052 = 0.021 MI.

TOTAL LENGTH TIP PROJECT BR-0052 = 0.184 MI.

Prepared In the Office of:

DIVISION OF HIGHWAYS

1000 Birch Ridge Dr., Raleigh NC, 27610

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:

MAY 23, 2022

LETTING DATE:

JUNE 20, 2023

ADAM COLE, PE
PROJECT MANAGER

JORDAN A. WOODARD, PE
PROJECT ENGINEER

DOUGLAS KRETCHMAN, PE

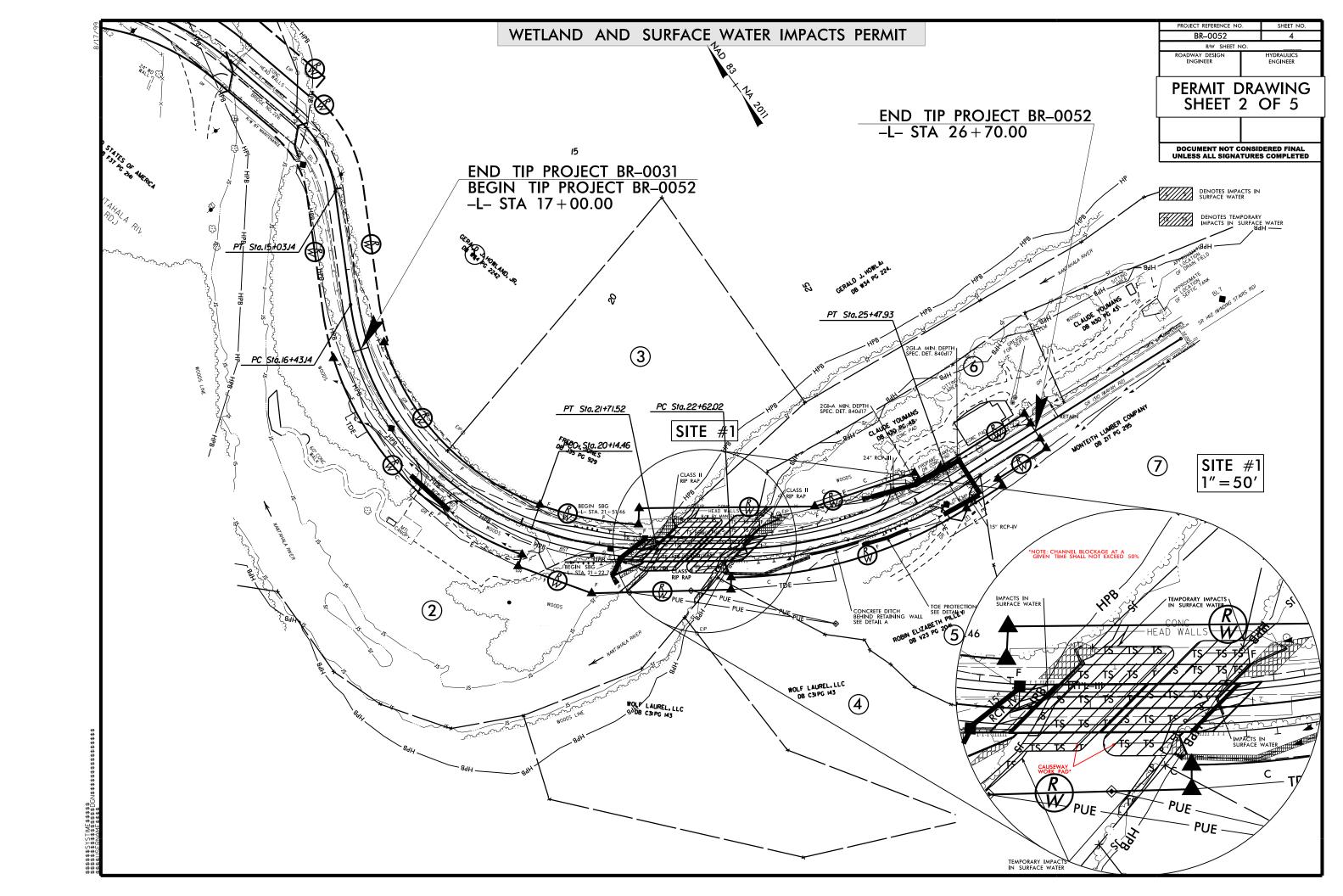
HYDRAULICS ENGINEER

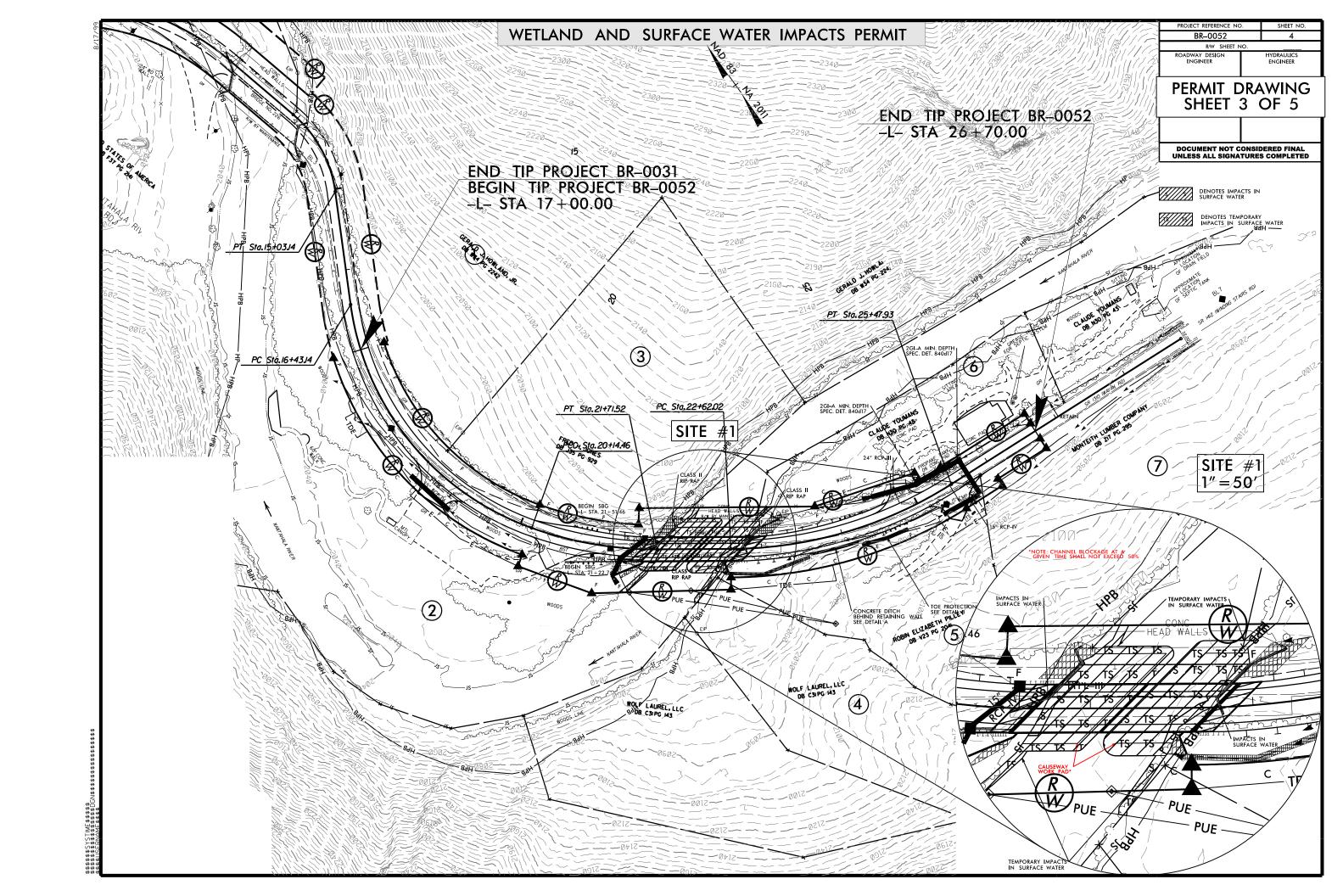
P.E.

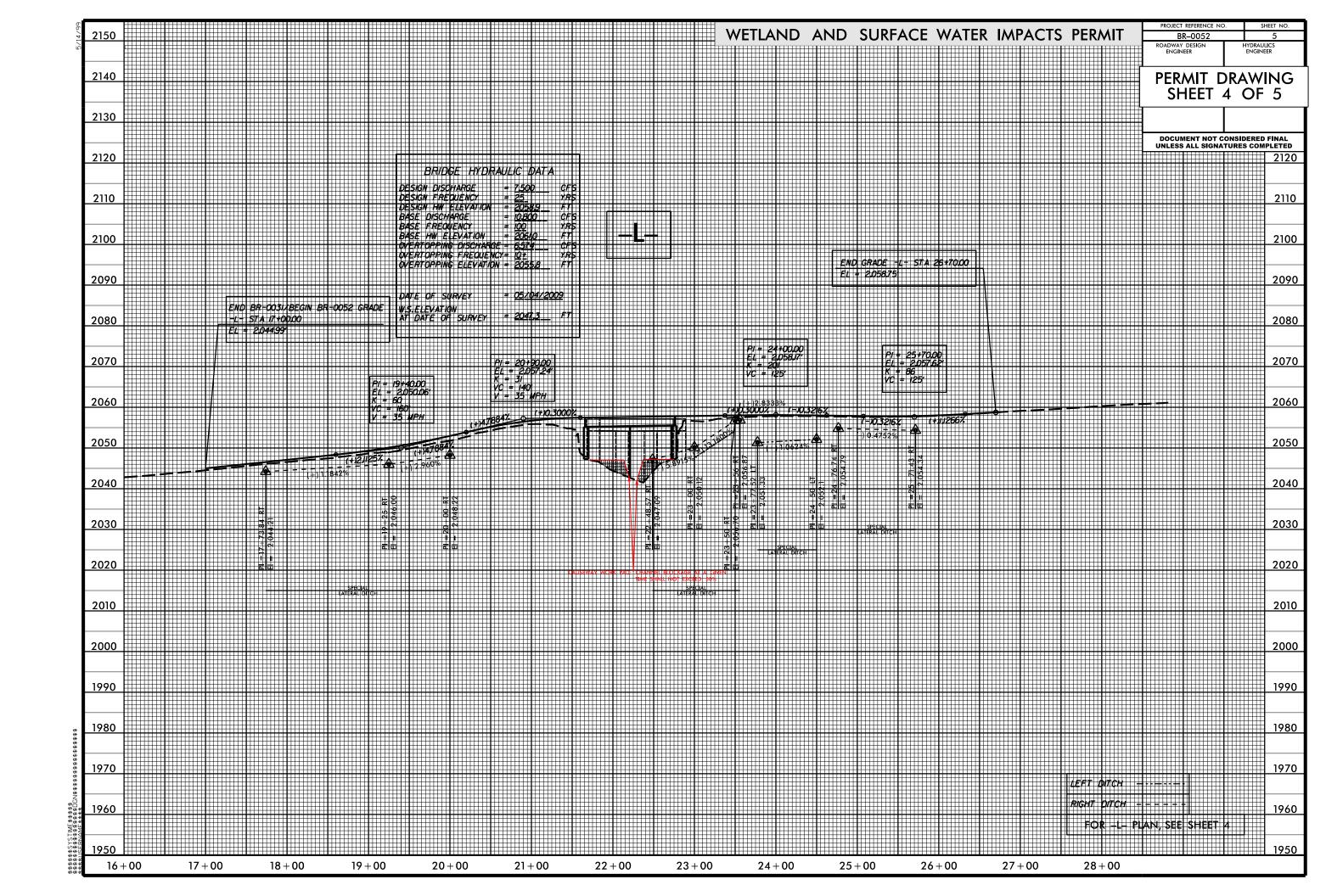
SIGNATURE:

ROADWAY DESIGN
ENGINEER









				WE	TLAND IMP	ACTS		SURFACE WATER IMPACTS				
			Permanent	Temp.	Excavation	Mechanized	Hand Clearing	Permanent	Temp.	Existing Channel	Existing Channel	Natural
Site	Station	Structure	Fill In	Fill In	in	Clearing	in	SW	SW	Impacts	Impacts	Stream
No.	(From/To)	Size / Type	Wetlands	Wetlands	Wetlands	in Wetlands	Wetlands	impacts	impacts	Permanent		Design
			(ac)	(ac)	(ac)	(ac)	(ac)	(ac)	(ac)	(ft)	(ft)	(ft)
1	-L- 21+34 / 23+22	Bridge + Rip Rap Wingwall						0.01	0.02	58	62	
-	L 21104/20122	/ Abutment Protection						0.01	0.02	- 00	02	
		/ / Nouthern Trotection										
		Causeway Work Pad +							0.12		14	
TOTAL	S*·	1			İ			0.01	0.14	58	76	0

\*Rounded totals are sum of actual impacts

NOTES: The Causeway length is 92'. The permanent impacts overlap all but 14' of the temporary Causeway impacts

NC DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

REVISED 8/14/2023

Macon BR-0052

67052.1.1

SHEET

5

OF

5

Revised 2018 Feb