

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

ROY COOPER GOVERNOR JAMES H. TROGDON, III Secretary

August 2, 2017

U.S. Army Corps of Engineers Regulatory Field Office 151 Patton Avenue, Room 208 Asheville, NC 28801-5006

ATTN: Ms. Loretta Beckwith NCDOT Coordinator

Subject: Application for Section 404 Nationwide Permit 13 for the Proposed Replacement of Bridge 148 on SR 1127 over Persimmon Creek in Cherokee County, Federal Aid Project No. BRZ-1127(12); TIP B-4462, Division 14; Work Order WBS Element 38376.1.2.

Dear Madam:

The North Carolina Department of Transportation (NCDOT) proposes to replace bridge number 148 on SR 1127 (Bell Hill Road) over Persimmon Creek in Cherokee County with a single span, 70 feet long cored slab bridge to the north of the existing alignment. The existing bridge will be utilized as an onsite detour during construction. This action will result in 20 lf feet of permanent impacts resulting from bank stabilization and there will be < 0.01 acres (50 lf) of temporary impacts to surface waters from bank stabilization installation and temporary shoring. Impacts are considered not a loss of waters; therefore, no mitigation will be acquired for this project.

Please see enclosed copies of the Pre-Construction Notification (PCN), Stormwater Management Plan, Permit Drawings, and Roadway Plansheets. A Programmatic Categorical Exclusion (PCE) was completed in October 2016 and distributed shortly thereafter. Additional copies are available upon request.

This project is not located in a trout watershed according to USACE Designated Trout Watershed mapping; therefore comments from the NCWRC will not be required for authorization by the USACE or NCDWR.

This project calls for a letting date of December 19, 2017 and a review date of October 31, 2017.

A copy of this permit application and its distribution list will be posted on the NCDOT Website at: http://connect.ncdot.gov/resources/Environmental. If you have any questions or need additional information, please call Jeff Hemphill at (919) 707-6126.

Sincerely,

AA

A Philip S. Harris, P.E., Manager Environmental Analysis Unit

cc:

NCDOT Permit Application Standard Distribution List



Pre-Construction Notification (PCN) Form

For Nationwide Permits and Regional General Permits (along with corresponding Water Quality Certifications) June 28, 2017 Ver 1.8

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.

Below is a link to the DRAFT online help file.

http://edocs.deq.nc.gov/WaterResources/0/doc/549884/Page1.aspx

A. Processing Information

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

Cherokee

Is this project a public transportation project?*

• Yes • No

Is this a NCDOT Project?*

• Yes • No

(NCDOT only) T.I.P. or state project number: B-4462

WBS #

38376.1.2 (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)
- 1b. What type(s) of permit(s) do you wish to seek authorization?*
- ▼ Nationwide Permit (NWP)
- Regional General Permit (RGP)

Nationwide Permit (NWP) Number:

13 - Bank Stabilization

NWP Number Other:

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

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

check all that apply

- ✓ 401 Water Quality Certification Regular
- Non-404 Jurisdictional General Permit

- 401 Water Quality Certification Express
- Riparian Buffer Authorization

1d. Is this notification solely for the record because

written approval is not required?

For the record only for DWR 401 Certification: •• Yes O No

For the record only for Corps Permit: O Yes O No

1e. 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

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

O Yes

• No

B. Applicant Information

1a. Who is the Primary Contact?* Jeff Hemphill

1b. Primary Contact Email:*

jhemphill@ncdot.gov

1c. Primary Contact Phone:*

(xxx)xxx-xxxx (919)707-6126

1d. Who is applying for the permit?

2. Owner Information

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

2b. Deed book and page no.:

2c. Responsible party: (for Corporations)

2d. Address

Street Address Address Line 2

City

Postal / Zip Code

2e. Telephone Number:

(xxx)xxx-xxxx

2f. Fax Number:

(xxx)xxx-xxxx

2g. Email Address:*

jhemphill@ncdot.gov

C. Project Information and Prior Project History

State / Province / Region

Country

1. Project Information

1a. Name of project:*

Replacement of Bridge 148 over Persimmon Creek on SR 1127 (Bell Hill Road)

1b. Subdivision name:

(if appropriate)

1c. Nearest municipality / town:*

Murphy

1d. Driving directions*

If it is a new project and can not easily be found in a GPS mapping system Rease provide directions. See Vicinity Map inset on title page of Permit Drawings (attached)

2. Project Identification

2a. Property Identification Number:

(tax PIN or parcel ID)

2b. Property size:

(in acres)

2c. Project Address

Street Address Address Line 2 City Postal / Zip Code

State / Province / Region

Country

2d. Site coordinates in decimal degrees

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

Latitude:*	Longitude: *
35.05323 ex: 34.208504	-84.18059 -77.796371
3. Surface Waters	
3a. Name of the nearest body of water to p Lake Hiwassee	proposed project:*
3b. Water Resources Classification of nea C	rest receiving water: *
Surface Water Lookup	
3c. What river basin(s) is your project loc	ated in?*
Hiwassee	
River Basin Lookup	
4. Project Description	

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:* Agricultural, rural residential.

4b. 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)

Click the upload button or drag and drop files here to attach document File type must be pdf

4c. 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 pdf

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

0

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

(intermittent and perennial)

125'

4f. Explain the purpose of the proposed project:

To replace a structurally deficient and functionally obsolete bridge.

4g. Describe the overall project in detail, including the type of equipment to be used:

The project involves replacing a single span 36-foot timber deck & steel I beam bridge with a single span, 70-foot cored slab bridge on a new alignment to the north. The existing bridge will be utilized as an onsite detour for this project. Standard road building equipment, such as trucks, dozers, and cranes will be used.

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

Click the upload button or drag and drop files	here to attach document	
B-4462 Permit Drawings.pdf		2.02MB
B-4462 Roadway Plans.pdf		1.61MB
B-4462 Permit Application Cover L	etter.pdf	40.31KB
File type must be pdf		

5. Jurisdictional Determinations								
5a. Have the wetlands or s	treams been delineated on the	property or proposed impact areas? *						
C Yes	© No	O Unknown						
Comments:								
5b. If the Corps made a juri	sdictional determination, what t	ype of determination was made? [*]						
C Preliminary	C Approved	O Unknown						
Corps AID Number:								
Example: SAW-2017-99999								
5c. If 5a is yes, who delinea	ted the jurisdictional areas?							
Name (if known):								
Agency/Consultant Compar	ıy:							
Other:								
5d. If ves, list the dates of t	he Corps jurisdictional determine	nations or State determinations and attach documentation.						

5d1. Jurisdictiona	I determination	upload
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Click the upload button or drag and drop files here to attach document File type must be PDF

6. Project History

6a. Have permits or certifications been requested or obtained for this project (including all prior phases) in the past?*

\sim	Vac
N	res

• No

O Unknown

7. Future Project Plans

7a. Is this a phased project?*

O 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

 □ Open Waters
 □ Pond Construction

Buffers

2. Wetland Impacts

If there are wetland impacts proposed on the site, then complete this question for each wetland area impacted.

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.

3a. Site # - Reason for impact	3b.Impact type	3c. Type of impact	3d. Stream name	3e. Stream Type	3f. Jurisdictior type	3g. Stream width	3h. Impact length
Site 1 Map label (e.g. Road Crossing 1)	P Permanent (P) or Temporary (T)	Bank Stabilization	Persimmo n Creek	Perennial Perennial (PER) or intermittent (INT)	Corps	Average 17 (feet)	20 (linear feet)
Site 1 Map label (e.g. Road Crossing 1)	T Permanent (P) or Temporary (T)	Bank Stabilization	Persimmo n Creek	Perennial Perennial (PER) or intermittent (INT)	Corps	Average 17 (feet)	50 (linear feet)

** 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:

20

3i	Total	temporary	stream	imnacts.
.	iotui	comportary	Sucum	impuoto.

50

3i. Total stream and tributary impacts:

70

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.

5. Pond or Lake Construction

If pond or lake construction is proposed, then complete the chart below.

6. Buffer Impacts (for DWR)

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

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:*

See Stormwater Management Plan. The proposed bridge will have no direct discharge into the water. The minimum number of deck drains necessary to maintain safe passage by the traveling public will be installed over the overbank floodplain areas. Drains will be installed as far from the stream as possible to maximize opportunity to diffuse flow. No deck drains will be installed over water. The majority of stormwater runoff from the proposed bridge is to flow to two proposed drop inlets, located at the east approach of the bridge. Stormwater runoff will be discharged at minimum practicable slopes, yielding minimum velocities and diffused with riprap pads at pipe outlets, which the existing drainage does not benefit from. All proposed stormwater runoff is discharged as far away from the stream and at lowest velocities as practicable. Design maintains existing flow patterns to minimize impacts. The new bridge spans the creek.

1b. Specifically describe measures taken to avoid or minimize the proposed impacts through construction techniques: * Best Management Practices for Surface Waters will be used during all phases of 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?

O Yes

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

	thie	nroject	roquiro	а	Stormwater	Management	Plan?
Ta. Does	uns	project	require	d	Stormwater	wanagement	Flan

• Yes

O No

O No

1b. If this project DOES require a Stormwater Management Plan, then provide a brief, narrative description of the plan: See Permit Drawings (attached)

1c. What is the overall percent imperviousness of this project?

	6
	u

1d. Who will be responsible for the review of the Stormwater Management Plan?*

Certified Local Government

DWR 401 & Buffer Permitting Branch

DEMLR Stormwater Review

DWR Transportation Permitting Branch

2. Diffuse Flow Plan

2a. Does the project include or is it adjacent to protected riparian buffers identified within one of the NC Riparian Buffer Protec	tion
Rules?	

O Yes

No

If no, explain why:

5. DWR 401 Stormwater Review

 5a. Is the Stormwater Management Plan (including BMP Supplemental Forms and Operation and Maintenance Agreements) attached?

 © Yes
 C No

Stormwater Management Plan Upload

Click the upload button or drag and drop files here to attach document file type must be pdf

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 O 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 O 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

O No

No

NEPA or SEPA Final Approval Letter

Click the upload button or drag and drop files here to attach document FILE TYPE MUST BE PDF

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)?*

O Yes

2b. Is this an after-the-fact permit application?*

© Yes © No

2c. If you answered "yes" to one or both of the above questions, provide an explanation of the violation(s):

3. Cumulative Impacts (DWR Requirement)

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

© Yes © No

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

Due to the minimal transportation impact resulting from this bridge replacement, this project will neither influence nearby land uses nor stimulate growth. Therefore, a detailed indirect or cumulative effects study will not be necessary.

Sewage Disposal (DWR Requirement)

4a. Describe, in detail, the treatment methods and dispositions (non-discharge or discharge) of wastewater generated from the proposed project. If the wastewater will be treated at a treatment plant, list the capacity available at that plant.

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 O 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. Asheville

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

C Yes

• No

5e. Will you cut any trees in order to conduct the work in waters of the U.S.?*

⊙ Yes ⊙ No

5f. Does this project involve bridge maintenance or removal?*

• Yes • No

5f(1). If yes, have you inspected the bridge for signs of bat use such as staining, guano, bats, etc.? Representative photos of signs of bat use can be found in the NLEB SLOPES, Appendix F, pages 3-7.

⊙ Yes ○ No

Link to the NLEB SLOPES document: http://saw-reg.usace.army.mil/NLEB/1-30-17-signed_NLEB-SLOPES&apps.pdf

If you answered "Yes" to 5f(1), did you discover any signs of bat use?*

O Yes ⊙ No O Unknown

If yes, please show the location of the bridge on the permit drawings/project plans.

Click the upload button or drag and drop files here to attach document File must be PDF

5g. Does this project involve the construction/installation of a wind turbine(s)?**

O Yes ⊙ No

If yes, please show the location of the wind turbine(s) on the permit drawings/project plans.

Click the upload button or drag and drop files here to attach document File must be PDF

5h. Does this project involve (1) blasting, and/or (2) other percussive activities that will be conducted by machines, such as jackhammers, mechanized pile drivers, etc.?*

• Yes • No

If yes to either, please provide details to include type of percussive activity, purpose, duration, and specific location of this activity on the property.

Click the upload button or drag and drop files here to attach document File must be $\ensuremath{\mathsf{PDF}}$

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

N.C. Natural Heritage Program database; USFWS-website; biological surveys for protected species listed for Cherokee County. A bat survey report dated June 19, 2017 found summer roosting habitat for Indiana bat (MANLAA). Consultation with NCDOT's Biological Surveys Group on August 2, 2017 confirmed that the potential roost tree identified in the 6/19/17 bat report will not be impacted by this project; therefore, the biological conclusion for Indiana bat is changed to No Effect. No roosting habitat nor nearby occurrences for Gray bat (No Effect), and NLEB is 4(d) compliant (part of Concurrence Letter sent to USFWS). Aquatic screenings/surveys were conducted in 2006 & 2013 and found no mussels – No Effect for Cumberland bean, Tan riffleshell and Little-wing pearlymussel. A Small whorled pogonia survey was conducted on February 25, 2013 - No Habitat/No Effect. An eagle survey was conducted in February 2013 & May 2017 with no nests or specimens observed.

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?* NMFS County Index

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/hpoweb/

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)?*

C Yes

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

7c. Historic or Prehistoric Information Upload

Click the upload button or drag and drop files here to attach document File must be PDF

8. Flood Zone Designation (Corps Requirement)

No

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

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

No

O Yes

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

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

Miscellaneous attachments not previously requested.

Click the upload button or drag and drop files here to attach document File must be PDF

Signature

*

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:*

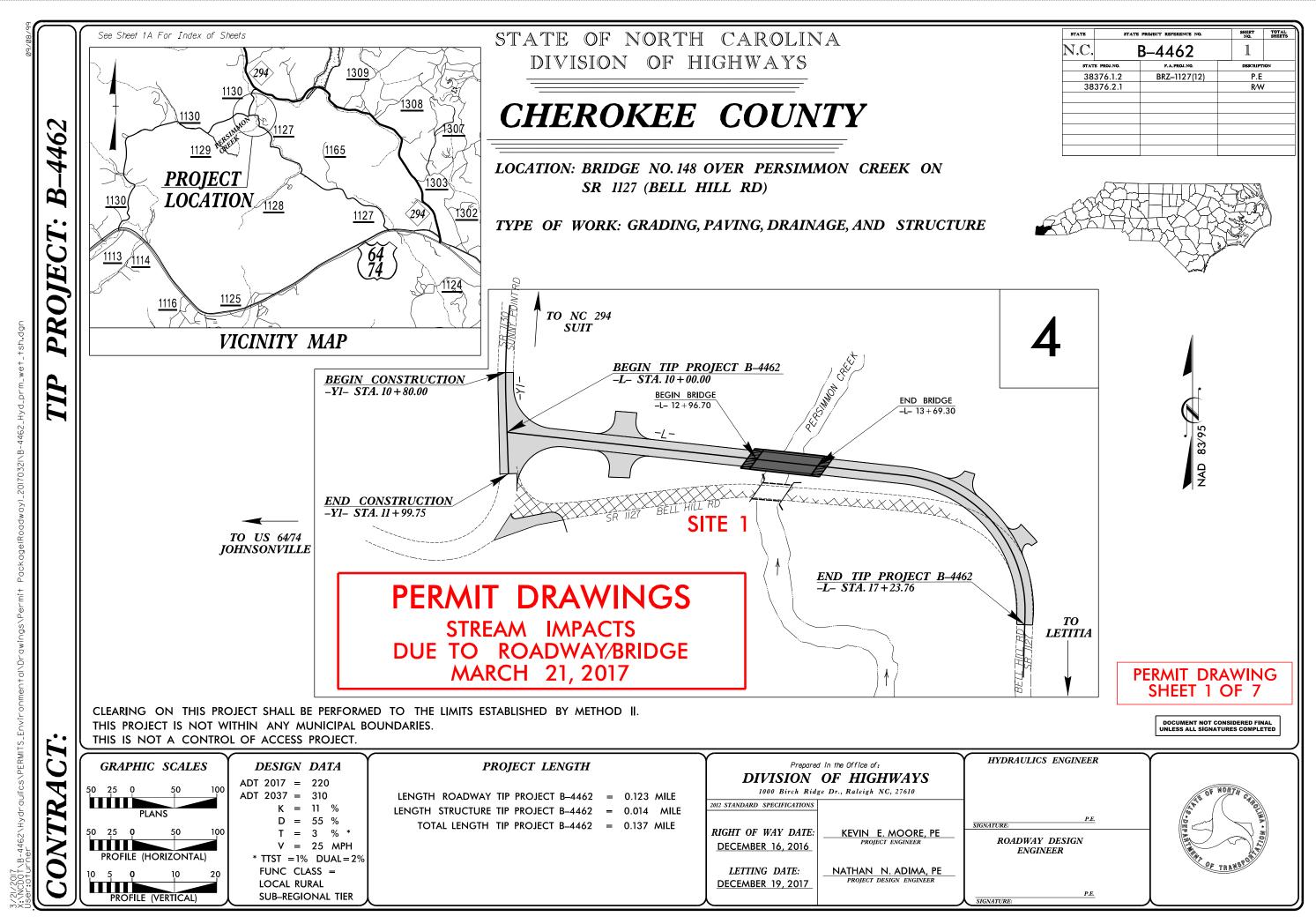
Colin Mellor

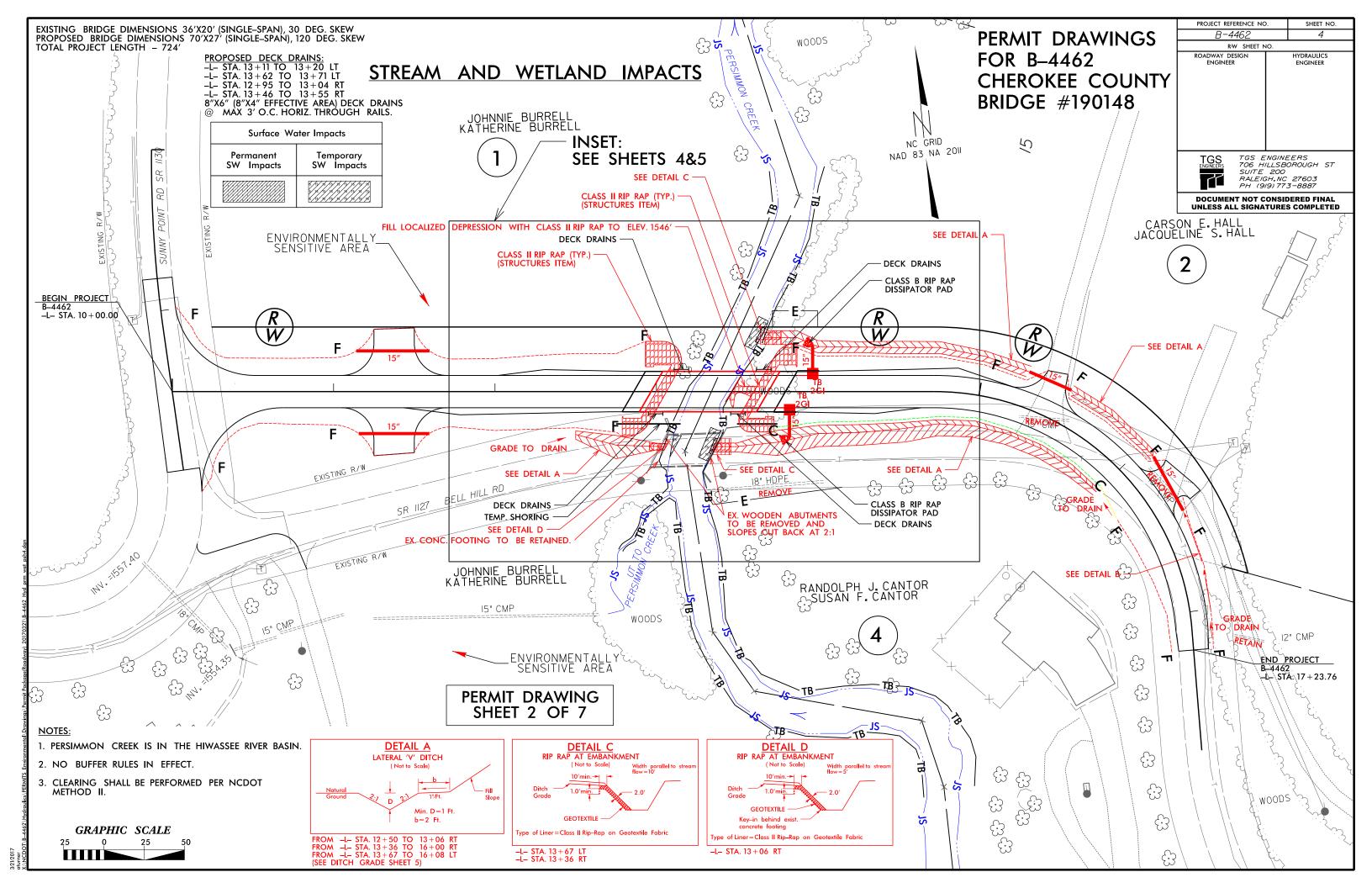
Signature

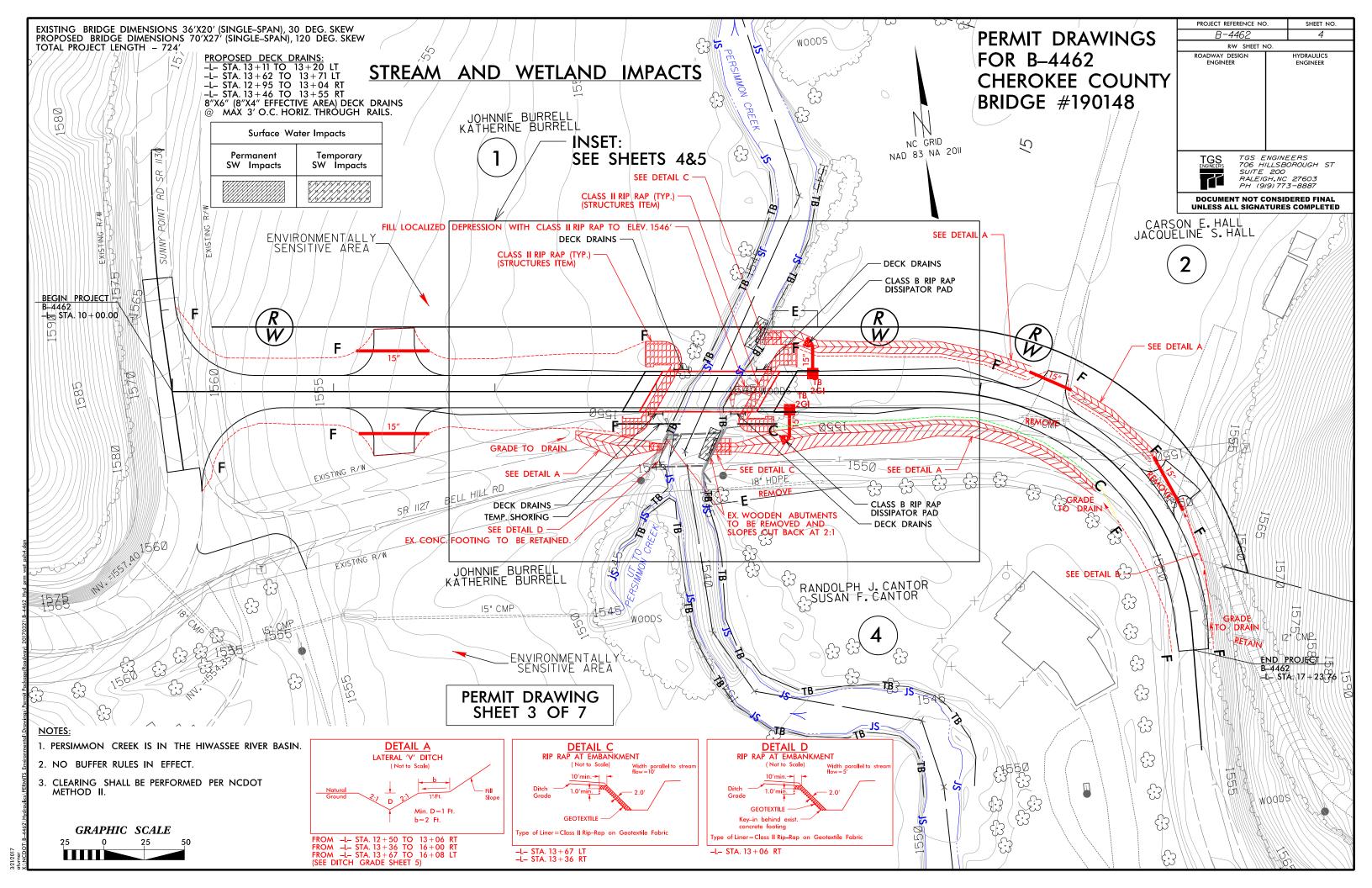
Colin Mellor

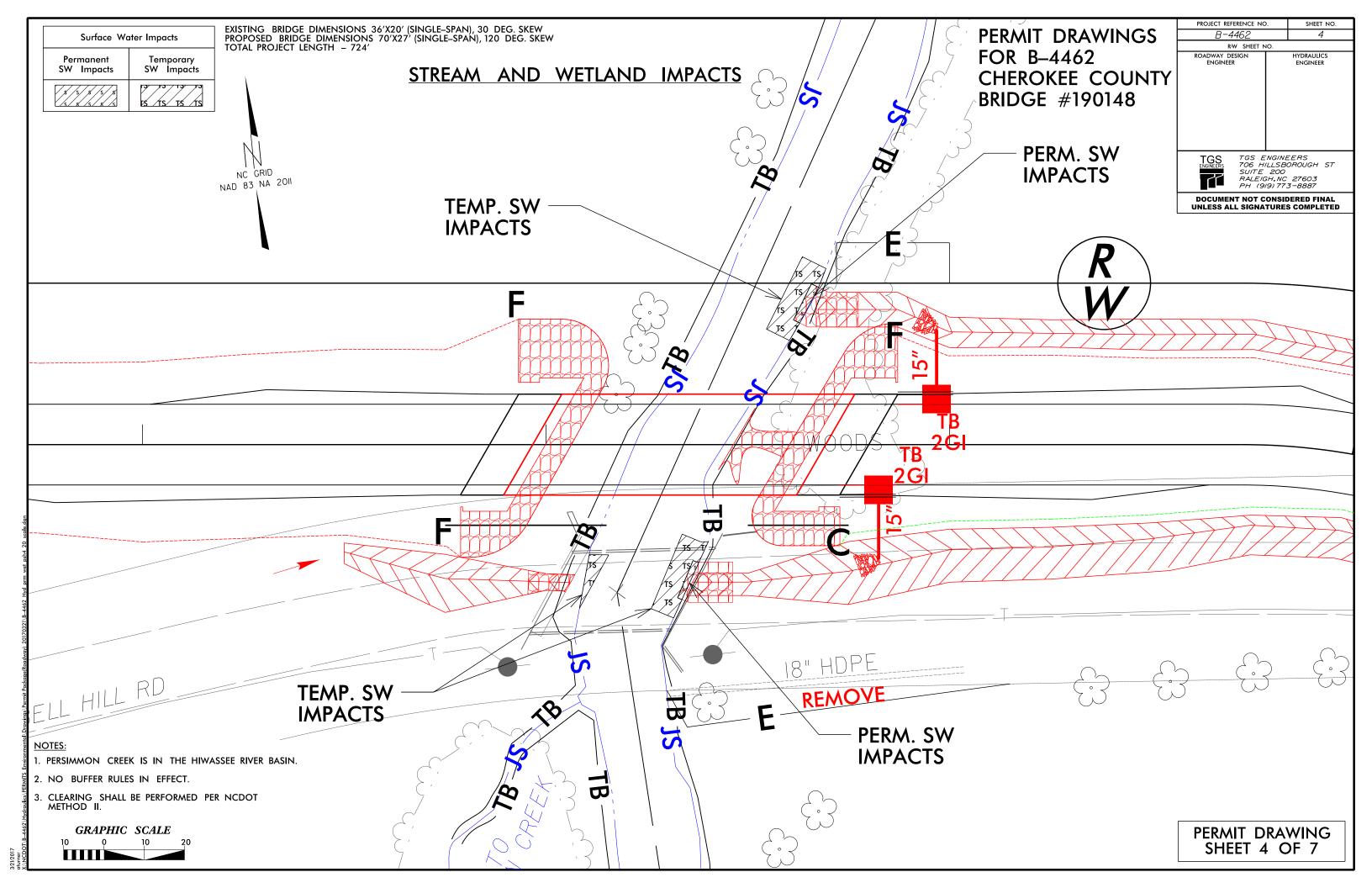
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Highway Stormwat	ter				-	ent of Transportatio vater Program	n			
PROG	RAM					NAGEMENT PLAN				
(Version 2.07; Released C					FOR NCDOT					
WBS Element:	38376.1.2	TIP No.:	B-4462		County(ies):	Cherokee				
				Ge	neral Project	Information				
WBS Element:		38376.1.2		TIP Number:	B-4462		Project	Туре:	Bridge Replace	ement
NCDOT Contact:		Stephen Morgan,	PE			Contractor / Desig	ner:	TGS Engine	eers (David B. F	Petty,
	Address:	1590 Mail Service	Center				Address:	706 Hillsbo	rough St.	
		Raleigh, NC 2769	9-1590					Suite 200		
								Raleigh, NO	27603	
	Phone:	919-707-6739					Phone:	919-773-88	87 ext. 104	
	Email:	smorgan@ncdot.g	JOV				Email:	dpetty@tgs	engineers.com	
City/Town:			Mu	rphy		County(ies):	Cherc	okee		
River Basin(s):		Hiwas	see			CAMA County?	No	D		
Wetlands within Pro	ject Limits?	No								
					Project Des	cription				
Project Length (lin. r	miles or feet):	724	4'	Surrounding La	and Use:	forest, cropland and	d some rural re	sidential		
				Proposed Project					Exis	sting S
Project Built-Upon A	Area (ac.)		0.4		ac.			0.3		ac.
Typical Cross Section	on Description:			<pre>/ pavement to face of the second s</pre>			Two 9' paved	travel lanes	w/ 2' to 5' wide	grass
		shoulders and 1' to	o 3' grassed sho	oulders and 2(H):1(V) grassed side	slopes.	ranging from a	about 3(H):1	(V) to 4(H):1(V)).
Annual Avg Daily Tra	affic (veh/hr/day):	Design/Future:		310	Year	2037	Existing:		220	
General Project Narr	rative:	Replacement of B	ridge No. 19014	8 on SR 1127 (Bell I	Hill Rd.) over F	Persimmon Creek (La	ke Cherokee)	in Cherokee	County southw	vest of
(Description of Minir	mization of Water					e-span bridge. The p				
Quality Impacts)						acent intersection. St				
						rge into the water. Th				
		traveling public will be installed over the overbank floodplain areas. Drains will be installed as far from the stream as possible to maximize								
			drains will be installed over water. The majority of stormwater runoff from the proposed bridge is to flow to two proposed drop inlets, local Stormwater runoff will be discharged at minimum practicable slopes, yielding minimum velocities and diffused with riprap pads at pipe out							
						r away from the strea				pe ou
		not benefit from. 7			charged as la	i away nom me shea			as practicable.	
					Waterbody In	formation				
Surface Water Body	(1):	Р	ersimmon Creel	k (Lake Cherokee)	nator bouy in	NCDWR Stream In	dex No.:			
				Primary Classifica	tion:	Class				Т
NCDWR Surface Wa	ter Classification fo	r Water Body		Supplemental Class		None				+
Other Stream Classi	fication	Nor			ssincation.	None	·			+
Impairments:		Nor								+
•	e?	No	Comments:							
Aquatic T&E Species	51							Buffor Dut	es in Effect:	
NRTR Stream ID:	dae Onenstra 111 (Persimmon Creek		Deals Decise Dial		-ffrD	No			
Project Includes Brid		•	Yes	Deck Drains Disch			No Norrotivo)	-	Pads Provided	
Deck Drains Dischar			No	(if yes, provide	justification in	the General Project	ivarrative)	(IT yes, d	escribe in the G	Jenera neral F
(IT yes, provid	de justification in the	General Project Na	irrative)						Gel	

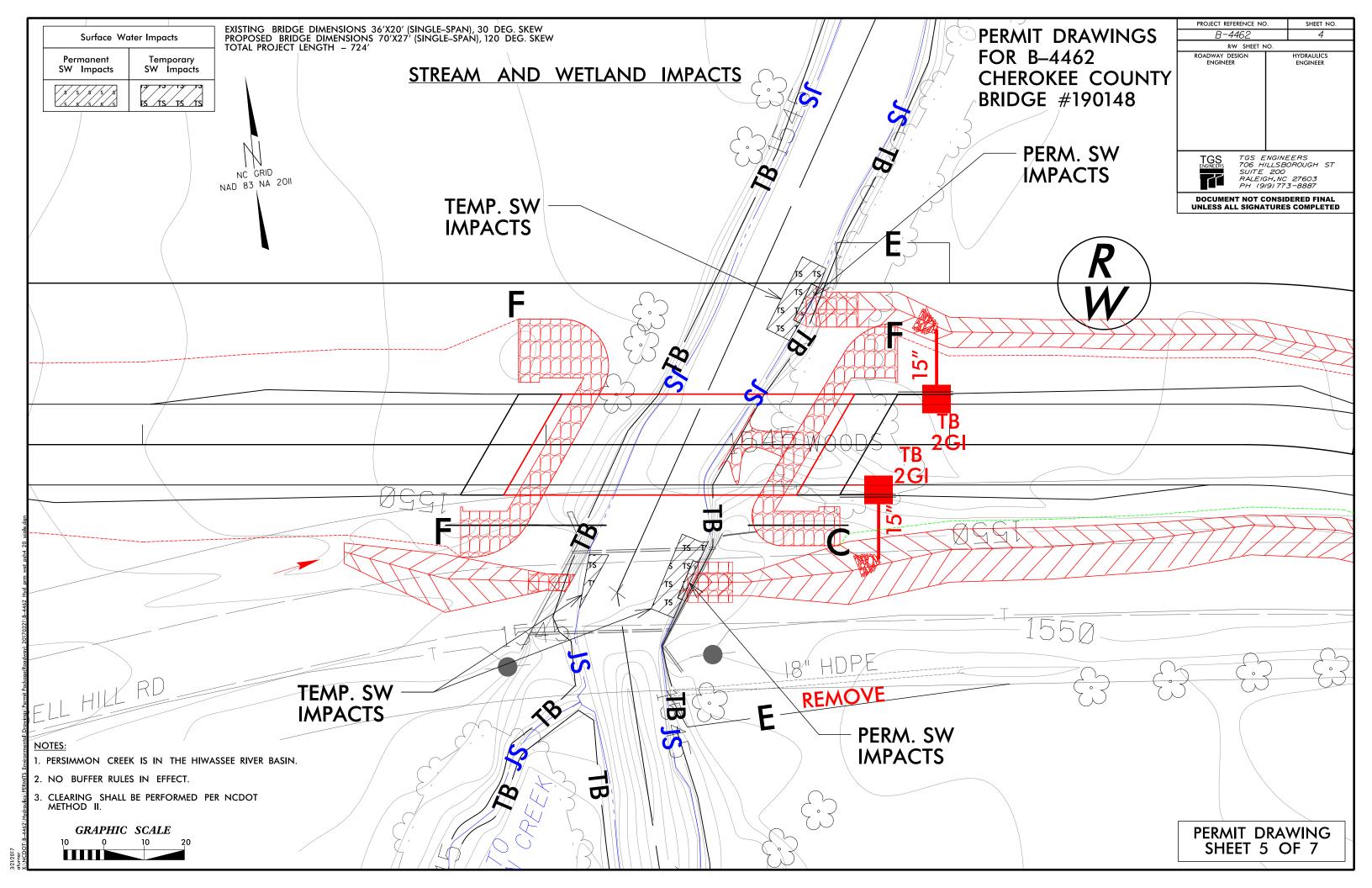
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Project Nar	rative)		

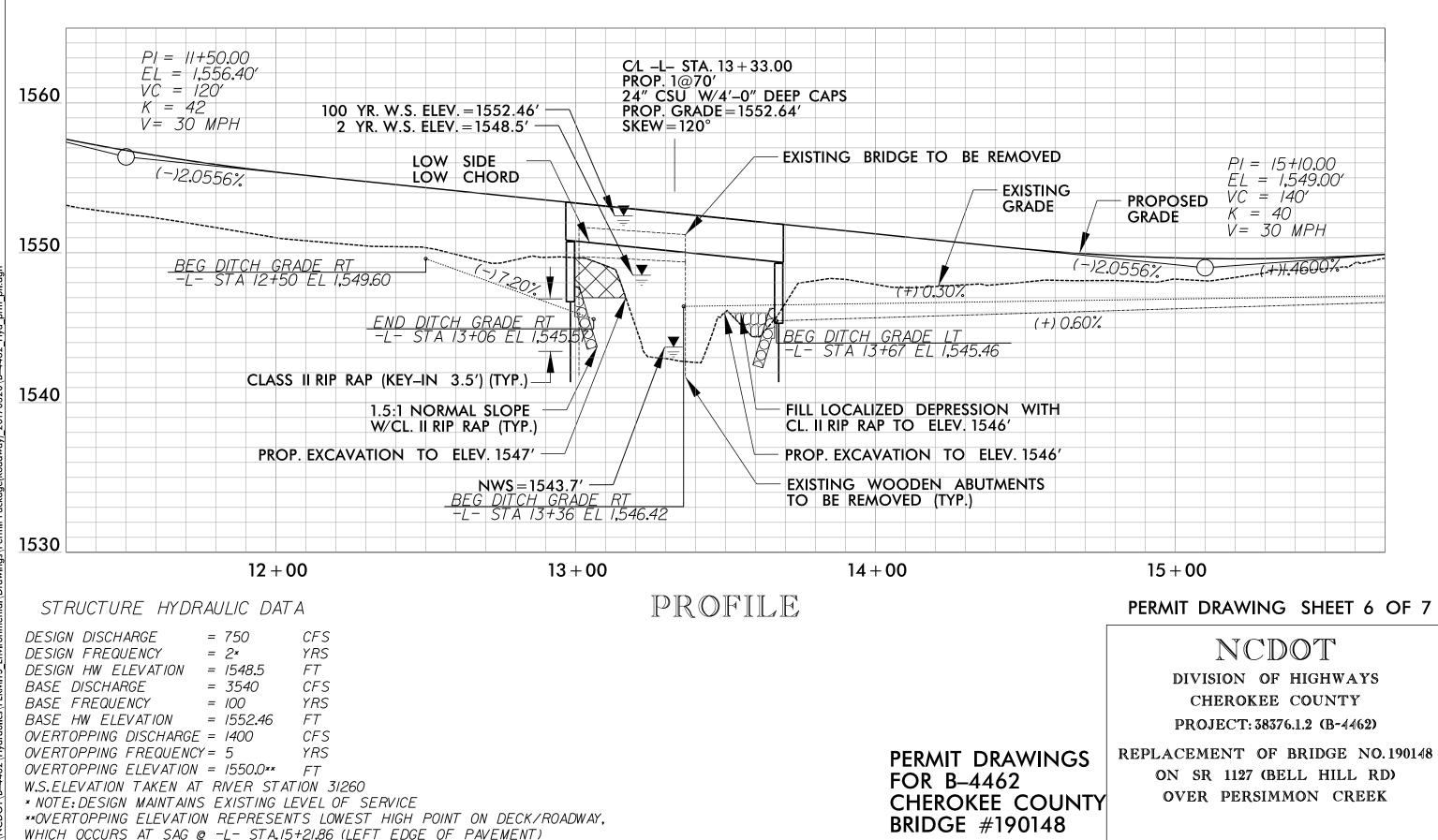












V20/20 Iturner

								IMARY				
			WETLAND PERMIT IMPACT SUM WETLAND IMPACTS			SURFACE WATER IMPACTS						
				Hand			Existing Existing					
Site No.	Station (From/To)	Structure Size / Type	Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	in	Mechanized Clearing in Wetlands (ac)	in	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Channel Impacts Permanent (ft)	Channel Impacts Temp. (ft)	Natural Stream Design (ft)
1	13+08 to 13+16 RT,	Streambank Stabilization							< 0.01		47	
	13+26 to 13+40 RT, 13+55 to 13+69 LT											
1	13+13 RT	Temporary Shoring									3	
1	13+33 to 13+38 RT, 13+61 to 13+68 LT	Streambank Stabilization						< 0.01		20		
TOTALS*:								< 0.01	< 0.01	20	50	0

*Rounded totals are sum of actual impacts

NOTES:

All impacts are for Persimmon Creek.

UT to Persimmon Creek (SA) has no impacts.

Revised 2013 10 24

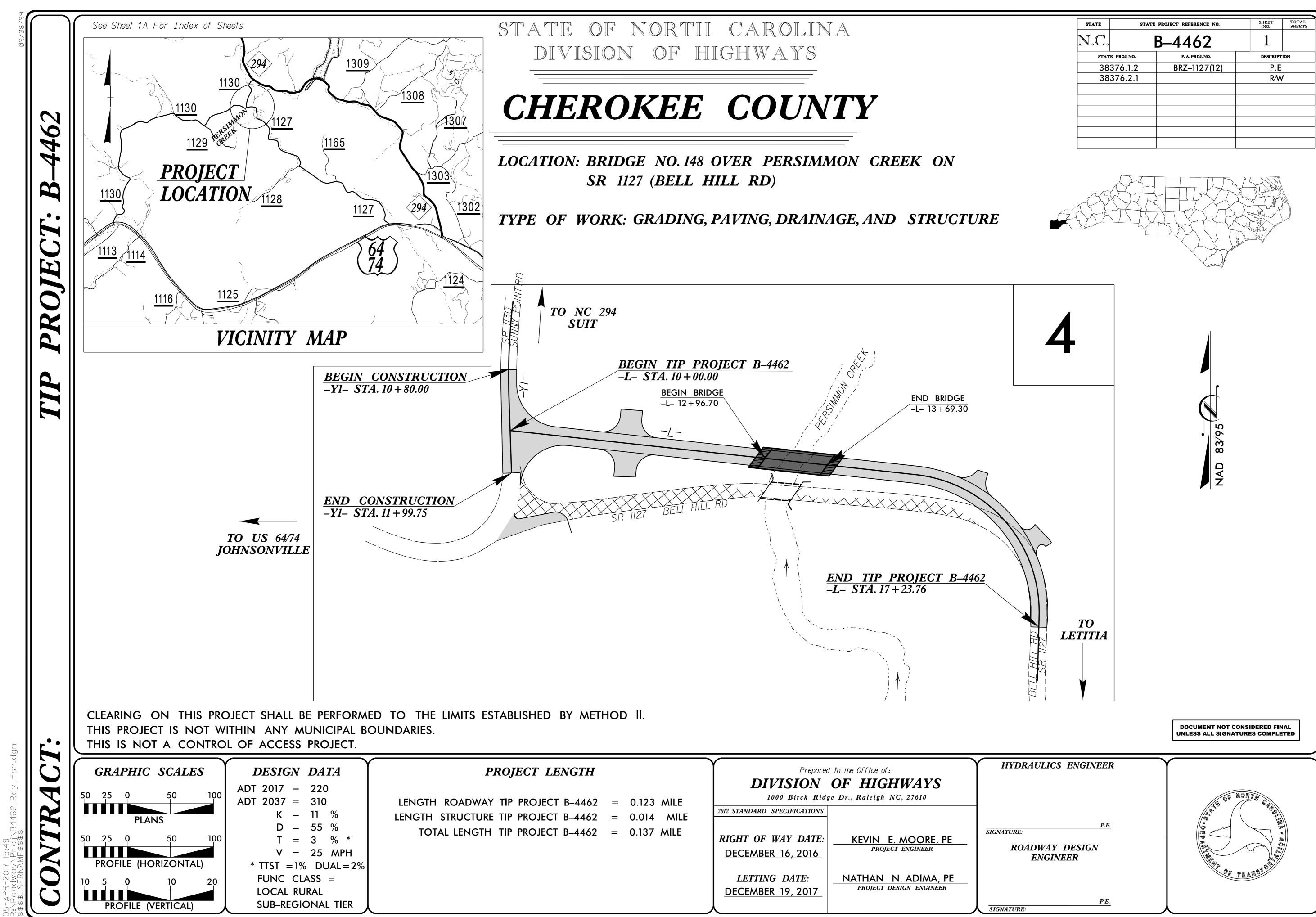
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OF

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NC DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS 3/20/2017 CHEROKEE PROJECT: 38376.1.2 (B-4462)



PROJECT LENGTH		Prepared in the Office of: DIVISION OF HIGHWAYS				
TH ROADWAY TIP PROJECT B-4462 H STRUCTURE TIP PROJECT B-4462 OTAL LENGTH TIP PROJECT B-4462	= 0.014 MILE	1000 Birch Rid 2012 STANDARD SPECIFICATIONS RIGHT OF WAY DATE: DECEMBER 16, 2016 LETTING DATE: DECEMBER 19, 2017	ge Dr., Raleigh NC, 27610 <u>KEVIN E. MOORE, PE</u> PROJECT ENGINEER <u>NATHAN N. ADIMA, PE</u> PROJECT DESIGN ENGINEER			

