

# STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

J. ERIC BOYETTE
SECRETARY

April 14, 2022

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

ATTN: Ms. Lori Beckwith

NCDOT Coordinator

Subject: Application for Section 404 Regional General Permit 50, and 401 Water

**Quality Certification** for the proposed Replacement of Bridge Nos. 370 (EBL) and 373(WBL) over Reems Creek on US 19/23/25/70 in Buncombe County, North Carolina, Division 13, TIP No. B-4442. Debit \$570 from WBS Element No.

38368.1.2

### Dear Ms. Beckwith:

The North Carolina Department of Transportation (NCDOT) proposes to replace Bridges 370 and 373 over Reems Creek on US 19/23/25/70 in Buncombe County with two 290', 2-span bridges (1@155, and 1@135) using 72" Florida I-Beam Bridges. The proposed bridge will be placed east of the existing bridge alignment, keeping the existing bridge during construction as an onsite detour.

This action will result in 446 lf of permanent impacts to streams from roadway fill, toe protection and a pipe extension; 0.07 acre of permanent impacts to wetlands from roadway fill and 0.03 ac of temporary construction impacts to streams from dewatering. Mitigation will be procured from the NC Division of Mitigation Services for wetland impacts and RES French Broad 05 Umbrella mitigation bank for stream impacts.

Please see enclosed copies of the Pre-Construction Notification (PCN), Stormwater Management Plan, and Permit Drawings. A Categorical Exclusion (CE) was completed in October 2021 and is included in this submittal.

This project calls for a letting date of September 20, 2022, and a review date of August 2, 2022.

A copy of this permit application and its distribution list will be posted on the NCDOT Website at: <a href="https://xfer.services.ncdot.gov/pdea/PermApps/">https://xfer.services.ncdot.gov/pdea/PermApps/</a>. If you have any questions or need additional information, please contact Jeff Hemphill at (919) 219-8581.

Sincerely,

Philip S. Harris III, P.E., C.P.M. Environmental Analysis Unit Head

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)

April 13, 2022 Ver 4.3

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

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

Below is a link to the online help file.

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

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

A. Processing Information		
Pre-Filing Meeting Date Request was submitted on: * 4/14/2022		
County (or Counties) where the project is located: *  Buncombe		
Is this a NCDMS Project *  Yes No Click Yes, only if NCDMS is the applicant or co-applicant.		
Is this project a public transportation project?*  • Yes • No  This is any publicly funded by municipal, state or federal funds road, rail, airport	transportation project.	
Is this a NCDOT Project?*		
(NCDOT only) T.I.P. or state project number: B-4442		
WBS #* 38368.1.2 (for NCDOT use only)		
1a. Type(s) of approval sought from the Corps:  ✓ Section 404 Permit (wetlands, streams and waters, Clean W.  — Section 10 Permit (navigable waters, tidal waters, Rivers and	,	
Has this PCN previously been submitted? *  ○ Yes  ● No		
1b. What type(s) of permit(s) do you wish to seek authorizat  ☐ Nationwide Permit (NWP)  ☑ Regional General Permit (RGP)  ☐ Standard (IP)	tion?*	
1c. Has the NWP or GP number been verified by the Corps?  ○ Yes   ○ No	*	
Regional General Permit (RGP) Number:	201902350 - Work associated with bridge construction, widening, replacement, and interchanges	
RGP Numbers (for multiple RGPS):		
List all RGP numbers you are applying for not on the drop down list.		
1d. Type(s) of approval sought from the DWR: *		
check all that apply  ✓ 401 Water Quality Certification - Regular  Non-404 Jurisdictional General Permit  Individual 401 Water Quality Certification	<ul><li>401 Water Quality Certification - Express</li><li>Riparian Buffer Authorization</li></ul>	

For the record only for DWR 401 Certification: Yes 
 No For the record only for Corps Permit: Yes ● No 1f. Is this an after-the-fact permit application?\* 1g. Is payment into a mitigation bank or in-lieu fee program proposed for mitigation of impacts? If so, attach the acceptance letter from mitigation bank or in-lieu fee program. Yes **Acceptance Letter Attachment** Click the upload button or drag and drop files here to attach document B-4442 DMS Acceptance Letter.pdf 229.84KB B-4442 Stream Mitigation - Bank - Dead Oak.pdf 85.6KB FILE TYPE MUST BE PDF 1h. Is the project located in any of NC's twenty coastal counties?\* No 1j. Is the project located in a designated trout watershed?\* Yes <a>®</a> No Link to trout information: http://www.saw.usace.army.mil/Missions/Regulatory-Permit-Program/Agency-Coordination/Trout.aspx **B. Applicant Information** 1a. Who is the Primary Contact?\* NCDOT 1c. Primary Contact Phone: \* 1b. Primary Contact Email: \* (xxx)xxx-xxxx (919)707-6126 jhemphill@ncdot.gov 1d. Who is applying for the permit?\* Applicant (other than owner) Owner (Check all that apply) 1e. Is there an Agent/Consultant for this project?\* Yes <a>®</a> No 2. Owner Information 2a. Name(s) on recorded deed: \* n/a 2b. Deed book and page no.: 2c. Contact Person: (for Corporations) 2d. Address\* 1598 Mail Service Center Address Line 2 State / Province / Region City Raleigh NC Postal / Zip Code Country 27606 US 2e. Telephone Number: \* (919)707-6126 2f. Fax Number: (xxx)xxx-xxxx 2g. Email Address: \* pharris@ncdot.gov 3. Applicant Information (if different from owner) 3a. Name: \*

NCDOT

# 3b. Business Name: (if applicable) 3c. Address\* 1598 Mail Service Center Address Line 2 State / Province / Region Raleigh NC Postal / Zip Code Country 27699 US 3d. Telephone Number: \* 3e. Fax Number: (919)707-6126 (xxx)xxx-xxxx (xxx)xxx-xxxx 3f. Email Address: \* jhemphill@ncdot.gov C. Project Information and Prior Project History 1. Project Information 1a. Name of project: \* Replacement of Bridge nos 370 and 373 over Reems Creek on US 19/23/25/70. 1b. Subdivision name: (if appropriate) 1c. Nearest municipality / town: \* Weaverville 2. Project Identification 2a. Property Identification Number: 2b. Property size: (tax PIN or parcel ID) (in acres) 2c. Project Address Street Address Address Line 2 City State / Province / Region Postal / Zip Code Country 2d. Site coordinates in decimal degrees Please collect site coordinates in decimal degrees. Use between 4-6 digits (unless you are using a survey-grade GPS device) after the decimal place as appropriate, based on how the location was determined. (For example, most mobile phones with GPS provide locational precision in decimal degrees to map coordinates to 5 or 6 digits after the decimal place.) Latitude: \* Longitude: \* 35.68954 -82.58149 ex: 34.208504 -77.796371 3. Surface Waters 3a. Name of the nearest body of water to proposed project: \* 3b. Water Resources Classification of nearest receiving water: \* Surface Water Lookup 3c. What river basin(s) is your project located in?\* 3d. Please provide the 12-digit HUC in which the project is located. \* 060101050903 River Basin Lookup 4. Project Description and History

	ite and the general land use in the vicinity of the pr st of 4-spans over Reems Creek and Quarry Road. Lar	oject at the time of this application: * d use is residential and commercial property mixed with undeveloped land.
4b. Have Corps permits or DWR certifications  ○ Yes ◎ No ○ Unknown	s been obtained for this project (including all prior	phases) in the past?*
<b>4f.</b> List the total estimated acreage of all exis 0.21	ting wetlands on the property:	
4g. List the total estimated linear feet of all extinter (intermittent and perennial) 3,485	disting streams on the property:	
<b>4h. Explain the purpose of the proposed proj</b> The purpose of the proposed project is to replace	ect: * e both structurally deficient and/or functionally obsolete	bridges.
The existing 4-span bridges will be replaced with be collected by catch basins along concrete med	dians and shoulders, discharging at the bottom of the re	be used: *  Intain deck drains. Roadway drainage on the north and south side of the bridges will bradway fill slope. The bridges will be replaced on-site by reducing lanes and shifting d and bridge building equipment will be used, such as trucks, dozers, and cranes.
5. Jurisdictional Determination	ons	
	eated on the property or proposed impact areas?*	
Yes	○ No	Unknown
Comments:		
5b. If the Corps made a jurisdictional determine Preliminary Approved Not Verified Corps AID Number:  Example: SAW-2017-99999  SAW-2013-01886	ination, what type of determination was made?*  Unknown  N/A	
3AVV-2013-01000		
5c. If 5a is yes, who delineated the jurisdiction	nal areas?	
Name (if known):	Ron Johnson	
Agency/Consultant Company:	AECOM	
Other:		
The project was verified as part of the A-0010 pr Lori Beckwith (USACE) and Kevin Barnett (NCD	ermination or State determination if a determination of a determination of the B-4442 bridges were originally part of WR). Updated fieldwork and an updated PJD form for 2020. This was at the beginning of the pandemic and n	on October 8, 2015 with A-0010 (including B-4442
6. Future Project Plans		
6a. Is this a phased project?*		
○ Yes	No	
	it(s), or individual permits(s) used, or intended to be ects that require Department of the Army authorizat	e used, to authorize any part of the proposed project or related activity? This includes other ion but don't require pre-construction notification.
D. Proposed Impacts Inv	ventory	©
1. Impacts Summary		
1a. Where are the impacts associated with yo	our project? (check all that apply):	
✓ Wetlands	Streams-tributaries	☐ Buffers
Open Waters	Pond Construction	
2. Wetland Impacts		
If there are wetland impacts proposed of	on the site, then complete this question for e	ach wetland area impacted.
"W." will be used in the table belo	ow to represent the word "wetland".	

2a. Site #* (?)	2a1 Reason*(?)	2b. Impact type * (?)	2c. Type of W.*	2d. W. name*	2e. Forested*	2f. Type of Jurisdicition *	2g. Impact area *
Site 2	Fill	Р	Headwater Forest	WH	Yes	Both	0.020 (acres)

Site 2	Mech Clearing	Р	Headwater Forest	WH	Yes	Both	0.050
							(acres)

#### 2g. Total Temporary Wetland Impact

2g. Total Permanent Wetland Impact

0.070

2g. Total Wetland Impact

0.070

2i. Comments:

#### 3. Stream Impacts

If there are perennial or intermittent stream impacts (including temporary impacts) proposed on the site, then complete this question for all stream sites impacted. "S." will be used in the table below to represent the word "stream".

	3a. Reason for impact * (?)	3b.Impact type *	3c. Type of impact*	3d. S. name *	3e. Stream Type *	3f. Type of Jurisdiction*	3g. S. width *	3h. Impact length*
S1	Site 1: Outfall Protection	Permanent	Rip Rap Fill	SHH UT to Reems Creek	Perennial	Both	3 Average (feet)	9 (linear feet)
S2	Site 1: Temporary	Temporary	Dewatering	SHH UT to Reems Creek	Perennial	Both	3 Average (feet)	24 (linear feet)
S3	Site 2: Roadway Fill	Permanent	Fill	SFF UT to Reems Creek	Perennial	Both	3 Average (feet)	69 (linear feet)
S4	Site 2: Temporary	Temporary	Dewatering	SFF UT to Reems Creek	Perennial	Both	3 Average (feet)	92 (linear feet)
S5	Site 2: Stream route	Permanent	Culvert	SFF UT to Reems Creek	Perennial	Both	3 Average (feet)	307 (linear feet)
S6	Site 2: Temporary	Temporary	Dewatering	SFF UT to Reems Creek	Perennial	Both	3 Average (feet)	45 (linear feet)
S7	Site 3: Toe Protection	Permanent	Stabilization	SFF UT to Reems Creek	Perennial	Both	3 Average (feet)	51 (linear feet)
S8	Site 3: Temporary	Temporary	Dewatering	SFF UT to Reems Creek	Perennial	Both	3 Average (feet)	89 (linear feet)
S9	Site 2: Bank Stabilization	Permanent	Bank Stabilization	SFF UT to Reems Creek	Perennial	Both	3 Average (feet)	10 (linear feet)

<sup>\*\*</sup> All Perennial or Intermittent streams must be verified by DWR or delegated local government.

### 3i. Total jurisdictional ditch impact in square feet:

3i. Total permanent stream impacts:

446 3i. Total temporary stream impacts:

250

3i. Total stream and ditch impacts: 696

3j. Comments:

# E. Impact Justification and Mitigation



#### 1. Avoidance and Minimization

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

The proposed bridges will not contain deck drains. Roadway drainage on the north and south side of the bridge are collected by catch basins along concrete medians and shoulders, out-letting at the bottom of the roadway fill slope. Velocities are dissipated by riprap aprons.

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

Best management practices will be adhered to.

2a. Does the project require Compensatory		ne U.S. or Waters of the State?	
Yes	○ No		
2c. If yes, mitigation is required by (check a			
DWR	✓ Corps		
<ul> <li>2d. If yes, which mitigation option(s) will be</li> <li>Mitigation bank Payment to in-lieu fee p</li> </ul>		partion	
,			
3. Complete if Using a Mitig	ation Bank		
3a. Name of Mitigation Bank:			
3b. Credits Purchased/Requested (attach re	occint and letter)		
	Quantity:		
Type: Stream	872		
Gircani	072		
3c. Comments			
4. Complete if Making a Pay	ment to In-lieu Fee Proç	gram	
4a. Approval letter from in-lieu fee program	in attached		
Yes  No	is attached.		
4b. Stream mitigation requested:			
(linear feet)		4c. If using stream mitigation, what is the stream temperature:	
436		cold	
NC Stream Temperature Classification Maps of	an be found under the Mitigation Conce	pts tab on the Wilmington District's RIBITS website.	
		4e. Riparian wetland mitigation requested:	
4d. Buffer mitigation requested (DWR only)	:	(acres)	
(square feet)		0.07	
4f. Non-riparian wetland mitigation request	ed:	4g. Coastal (tidal) wetland mitigation requested:	
(acres)		(acres)	
4h. Comments  Mitigation for the streams will be provided by N	NCDOT Mitigation (attached)		
Mitigation for wetlands will be provided by NC			
C Duffer mitigation (State F	Descripted Diseases Duffe	W Bulan) was wired by DIMB	
6. Buffer mitigation (State F	legulated Riparian Buffe	er Rules) - required by DWR	
6a. Will the project result in an impact with	n a protected riparian buffer that requ	uires buffer mitigation? If yes, you must fill out this entire form - please contact DWR for more infe	ormation.
○ Yes	No		
F. Stormwater Manager	nent and Diffuse Flo	w Plan (required by DWR)	
	*** December to the		
	Recent changes to the	stormwater rules have required updates to this section .***	
1. Diffuse Flow Plan			
i. Dilluse Flow Flair			
		ied within one of the NC Riparian Buffer Protection Rules?	
Yes	No		
For a list of options to meet the diffuse flow re-	quirements, click here.		
If no, explain why:			
2. Stormwater Management	Plan		
2a. Is this a NCDOT project subject to com	pliance with NCDOT's Individual NPD!	ES permit NCS000250?*	
● Yes ○ No			
Comments:			

**G. Supplementary Information** 

1a. Does the project involve an expenditure o	f public (federal/state/local) funds or the use of public (federal/state) land?*	
Yes	○ No	
1b. If you answered "yes" to the above, does Environmental Policy Act (NEPA/SEPA)?*	the project require preparation of an environmental document pursuant to the	requirements of the National or State (North Carolina)
Yes	◎ No	
1c. If you answered "yes" to the above, has the	he document review been finalized by the State Clearing House? (If so, attach a	a copy of the NEPA or SEPA final approval letter.)*
Yes	○ No	
2. Violations (DWR Requirem	ent)	
2a. Is the site in violation of DWR Water Quali Riparian Buffer Rules (15A NCAC 2B .0200)?	ity Certification Rules (15A NCAC 2H .0500), Isolated Wetland Rules (15A NCAC *	C 2H .1300), or DWR Surface Water or Wetland Standards or
○ Yes	No	
3. Cumulative Impacts (DWR	Requirement)	
3a. Will this project (based on past and reaso	nably anticipated future impacts) result in additional development, which coul	d impact nearby downstream water quality?*
○ Yes	<ul><li>No</li></ul>	
3b. If you answered "no," provide a short nar	rative description.	
Due to the minimal transportation impact resulting	g from this bridge replacement, this project will neither Therefore, a detailed indirect or cumulative effects	
4. Sewage Disposal (DWR Re	equirement)	
4a. Is sewage disposal required by DWR for to  ○ Yes  ○ No  ○ N/A	his project?*	
5. Endangered Species and D	Designated Critical Habitat (Corps Requirement)	
5a. Will this project occur in or near an area v  • Yes	with federally protected species or habitat?*  No	
5b. Have you checked with the USFWS conce	rning Endangered Species Act impacts?*	
Yes	○ No	
<b>5c. If yes, indicate the USFWS Field Office yo</b> Asheville	u have contacted.	
5d. Is another Federal agency involved?*		
○ Yes	No	Unknown
5e. Is this a DOT project located within Division  One Yes   No	on's 1-8?*	
5f. Will you cut any trees in order to conduct Yes   No	the work in waters of the U.S.?*	
5g. Does this project involve bridge maintena ⊚ Yes ⊘ No	ince or removal?*	
5g(1). If yes, have you inspected the bridge for F, pages 3-7.	or 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
● Yes ○ No		
Link to the NLEB SLOPES document: http://saw-reg	g.usace.army.mil/NLEB/1-30-17-signed_NLEB-SLOPES&apps.pdf	
If you answered "Yes" to 5g(1), did you disco  ○ Yes ○ No ○ Unknown	ver any signs of bat use?*	
*** If yes, please show the location of the brid	ge on the permit drawings/project plans.	
5h. Does this project involve the construction  Yes No	u/installation of a wind turbine(s)?**	
5i. 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.?*

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

IPAC and Informal Concurrence Letter from USFWS dated March 14, 2022: "Based upon a review of our records and the information provided, we agree with the "no effect" determinations for mountain sweet pitcher plant (Sarracenia rubra ssp. jonesii), Virginia spiraea (Spiraea virginiana), and rock gnome lichen (Gymnoderma lineare).

Suitable foraging, commuting, and roosting habitat for the gray bat (Myotis grisescens) is present within the action area; however, roost surveys conducted on the project bridges on June 9, 2021 and previously in 2019 did not detect bats or signs of bat use. Based on this and the commitment to the conservation measures described above, we concur with the determination that the project may affect, but is not likely to adversely affect gray bat.

Based on the information provided, suitable habitat is present for Appalachian elktoe (Alasmidonta raveneliana) in Reems Creek within the project area. An aquatic survey for freshwater mussels was conducted on August 25, 2021 and no Appalachian elktoe were detected. Based on this and the commitment to the conservation measures described above, we concur with the determination that the project may affect, but is not likely to adversely Appalachian elktoe.

Based on the information provided, the project is consistent with the final section 4(d) rule, codified at 50 C.F.R. § 17.40(o) and effective February 16, 2016 for northern long-eared bat (Myotis septentrionalis, NLEB). This rule exempts take of this species for any tree cutting activity that occurs more than 0.25 mile from a known hibernation site or more than 150 feet from a known maternity roost during the pup rearing season (June 1 - July 31). Because this project meets the "exempt" criteria, any take associated with the project has already been addressed in the Biological Opinion for the 4(d) rule, and no further action under section 7 of the Act is required for this species at this time."

Temporary lighting plants will be used during traffic shifts which will occur at night to reduce impacts to the motoring public, and for the safety of workers when traffic volumes are lower. Lighting will be limited to the current highway, primarily at the traffic shift, and will only be used when needed for these limited operations. All construction related lighting will be indirect in nature and will not project into adjacent forested areas or the water surface of Reems Creek. Construction-related lighting will be limited to only necessary lighting to maintain safety in active work areas.

#### 6. Essential Fish Habitat (Corps Requirement)

6a. Will this project occu	ır in or near an area designated as an Essential Fish Habitat? <sup>*</sup>
○ Yes	No

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

Review of on-line mapping sources

#### 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)?\*

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

CE, State Historic Preservation Office Memo and Archaeology Memo and Tribal coordination Letters and responses.

#### 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:

The project was determined by NCDOT to meet the requirements for a MOA Type 1.

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

FEMA floodmap.

#### **Miscellaneous**



#### Comments

Archaeology and Historic Archectiture letters can be found in the attached CE.

Tribal coordination letters were sent to the Eastern Band of Cherokee Indians, Cherokee Nation, and United Keetoowah Band of Cherokee Indians on December 1, 2021. No responses were received.

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

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

 B-4442 CE.pdf
 6.78MB

 B-4442 Final Permit Drawings.pdf
 5.67MB

 B-4442 Permit Application Cover Letter.pdf
 246.14KB

File must be PDF or KMZ

# **Signature**



#### \*

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

#### Full Name: \*

Michael Turchy

Signature \*

Michael Tunchy

#### Date

4/14/2022

ROY COOPER Governor ELIZABETH S. BISER Secretary MARC RECKTENWALD Director



March 30, 2022

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

Dear Mr. Harris:

Subject: Mitigation Acceptance Letter:

B-4442, Replace Bridges 370 and 373 over Reems Creek on US 19/23 / US 25 / US 70, Buncombe County

The purpose of this letter is to notify you that the Division of Mitigation Services (DMS) will provide the compensatory wetland mitigation for the subject project. Based on the information supplied by you on March 30, 2022, the impacts are located in CU 06010105 of the French Broad River basin in the Southern Mountains (SM) Eco-Region, and are as follows:

Stream and		CU	Eco-		Stream	1		Wetlands	
Wetlands	River Basin	Location	Region	Cold	Cool	Warm	Riparian	Non-Riparian	Coastal Marsh
Impacts	French Broad	06010105	SM	0	0	0	0.070	0	0

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

The impacts and associated mitigation needs were under projected by the NCDOT in the 2022 impact data. NCDEQ-DMS will commit to implement sufficient compensatory mitigation credits to offset the impacts associated with this project as determined by the regulatory agencies using the delivery timeline listed in Section F.3.c.iii of the In-Lieu Fee Instrument dated July 28, 2010. If the above referenced impact amounts are revised, then this mitigation acceptance letter will no longer be valid and a new mitigation acceptance letter will be required from NCDEQ-DMS.

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

Sincerely

for James B. Stanfill

DMS Asset Management Superviso

cc: Mr. Monte Matthews, USACE – Raleigh Regulatory Field Office

Ms. Amy Chapman, NCDWR

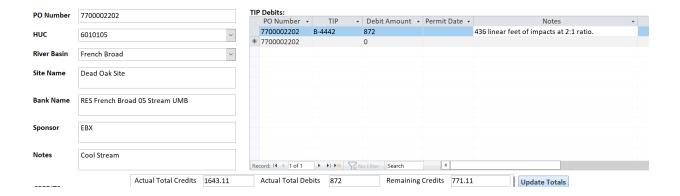
File: B-4442



# **Dead Oak Mitigation Site**

The Dead Oak Mitigation Site is part of the RES French Broad 05 Umbrella mitigation bank. The 41.58 acre project is located approximately one mile northwest of Alexander in Buncombe County, North Carolina.

NCDOT has acquired 1643.11 stream credits from the Dead Oak mitigation site to offset the impacts associated with future TIP's. NCDOT will be debiting the Dead Oak mitigation site for 872 linear feet, in order to offset the unavoidable impacts associated with this project.





#### **North Carolina Department of Transportation**

#### **Highway Stormwater Program** STORMWATER MANAGEMENT PLAN



Version 3.00; Released August 2021)

FOR NCDOT PROJECTS WBS Element: 38368.1.2 TIP/Proj No: B-4442 County(ies): Buncombe Page of **General Project Information** TIP Number: B-4442 Bridge Replacement Date: 1/24/2021 **WBS Element:** 38368.1.2 Project Type: **NCDOT Contact:** Contractor / Designer: David Webb Meme Buscemi, PE Address: Address: AECOM NCDOT Century Center 1000 Birch Ridge Dr 5438 Wade Park Boulevard, Suite 200 Raleigh NC 27610 Raleigh, NC 27607 Phone: 919-707-6731 Phone: 919-854-6200 Email: dswebb1@ncdot.gov Email: meme.buscemi@aecom.com City/Town: Weaverville, NC County(ies): Buncombe CAMA County? River Basin(s): French Broad No Wetlands within Project Limits? Yes **Project Description** Wooded/Commercial/Residential Project Length (lin. miles or feet): 0.67 **Surrounding Land Use: Proposed Project Existing Site** Project Built-Upon Area (ac.) 9.9 6.1 ac. 4-lane, grassed median, divided. Shoulder section with 12' lanes. Roadside ditches 6-lane, concrete median, divided. Shoulder section with 12' lanes. Roadside ditches and Typical Cross Section Description: storm sewer. and storm sewer. Annual Avg Daily Traffic (veh/hr/day): Year: 2043 Design/Future: 75400 Existina: 55400 Year: Existing parallel bridges 0370 / 0373 consist of 4 spans of 67.50 ft, for total bridge lengths of 270 ft over Reems Creek and Quary Road. Both bridges consist of reinforced **General Project Narrative:** concrete deck on I beams with reinforced concrete cap and column on spread footings, the end bents consist of reinforced concrete cap and piles. (Description of Minimization of Water The replacement bridges are 2 span bridges (1@155, and 1@135) on 72" Florida I-Beam. The proposed bridges will not contain deck drains. Roadway drainage on the north Quality Impacts) and south side of the bridge are collected by catch basins along concrete medians and shoulders, outletting at the bottom of the roadway fill slope. Velocities are disspated by rip rap aprons. In an effort to reduce wetland impacts, roadway fill slopes in regions near wetlands will be constructed at a 1.5:1 fill slope. The 18" CSP at -L- Sta. 321+16 LT, carrying highway runoff, results in permanent impacts to the wetlands north of the proposed bridges. The jurisdictional stream from -L- Sta. 322+81 LT to -L- Sta. 325+58 LT shall be routed through a storm network because of steep slopes outisde of roadway slope stake lines. Relocating the stream channel would result in significant amount of cut into the existing slope.

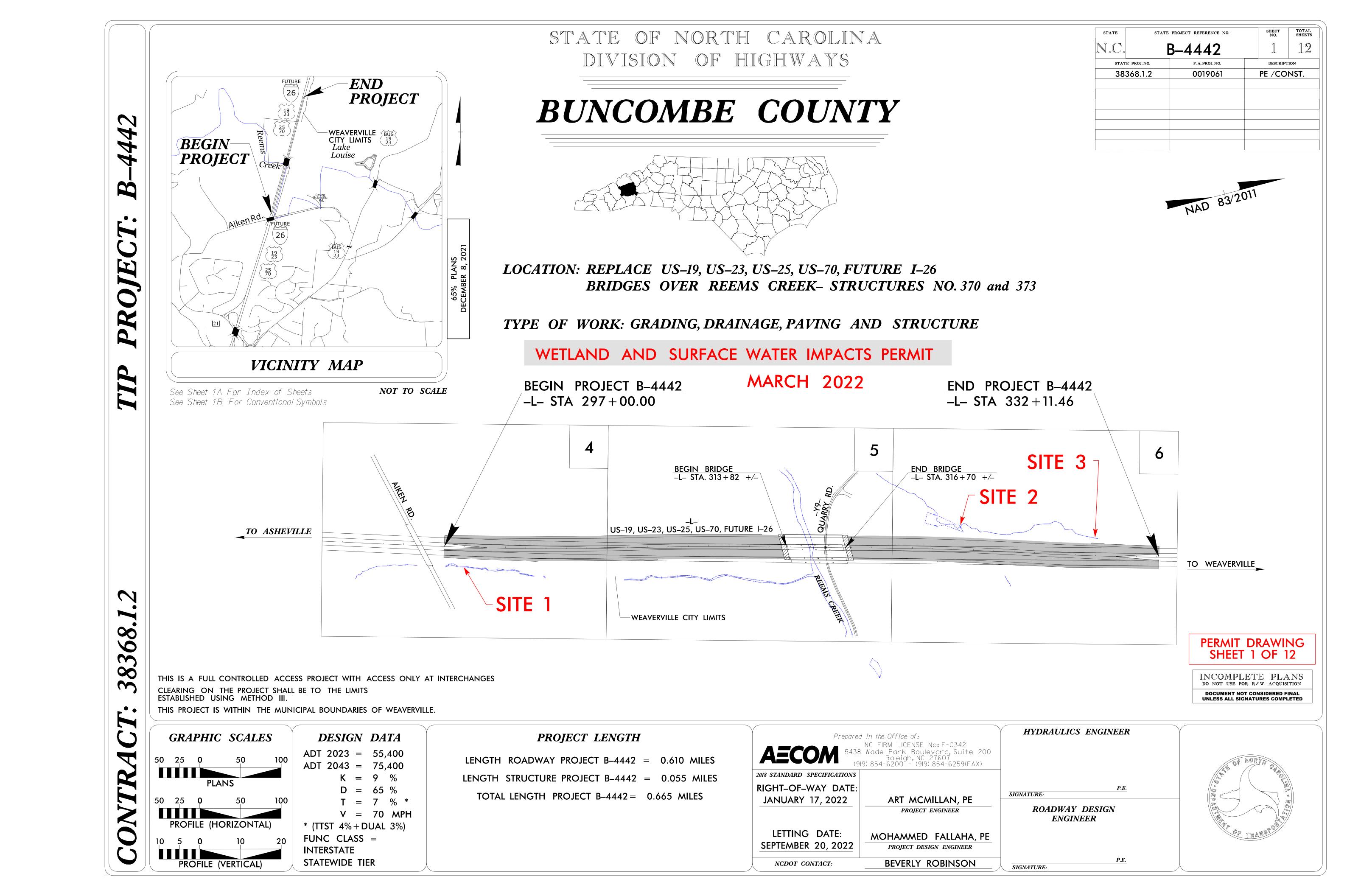


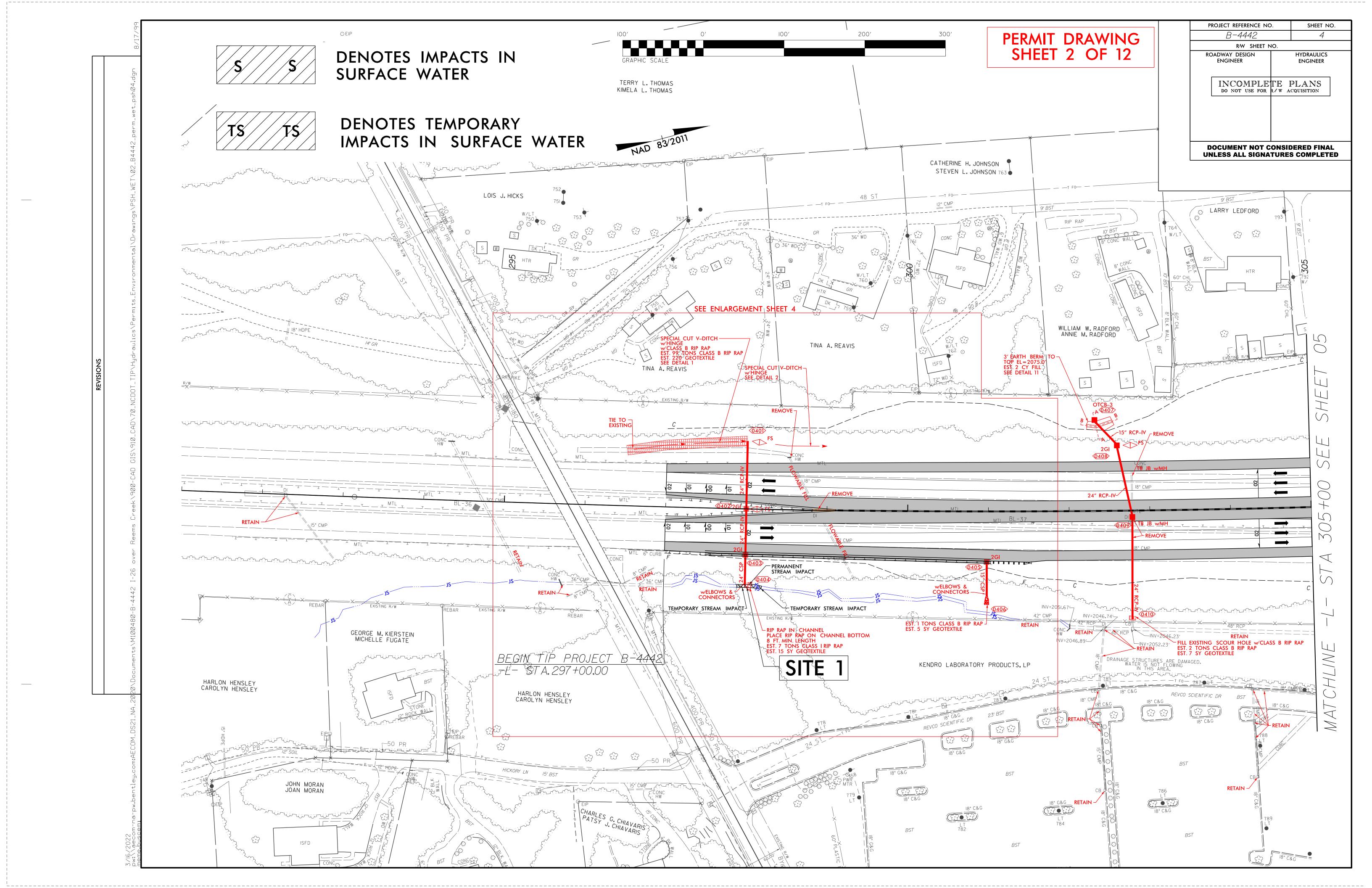
#### North Carolina Department of Transportation

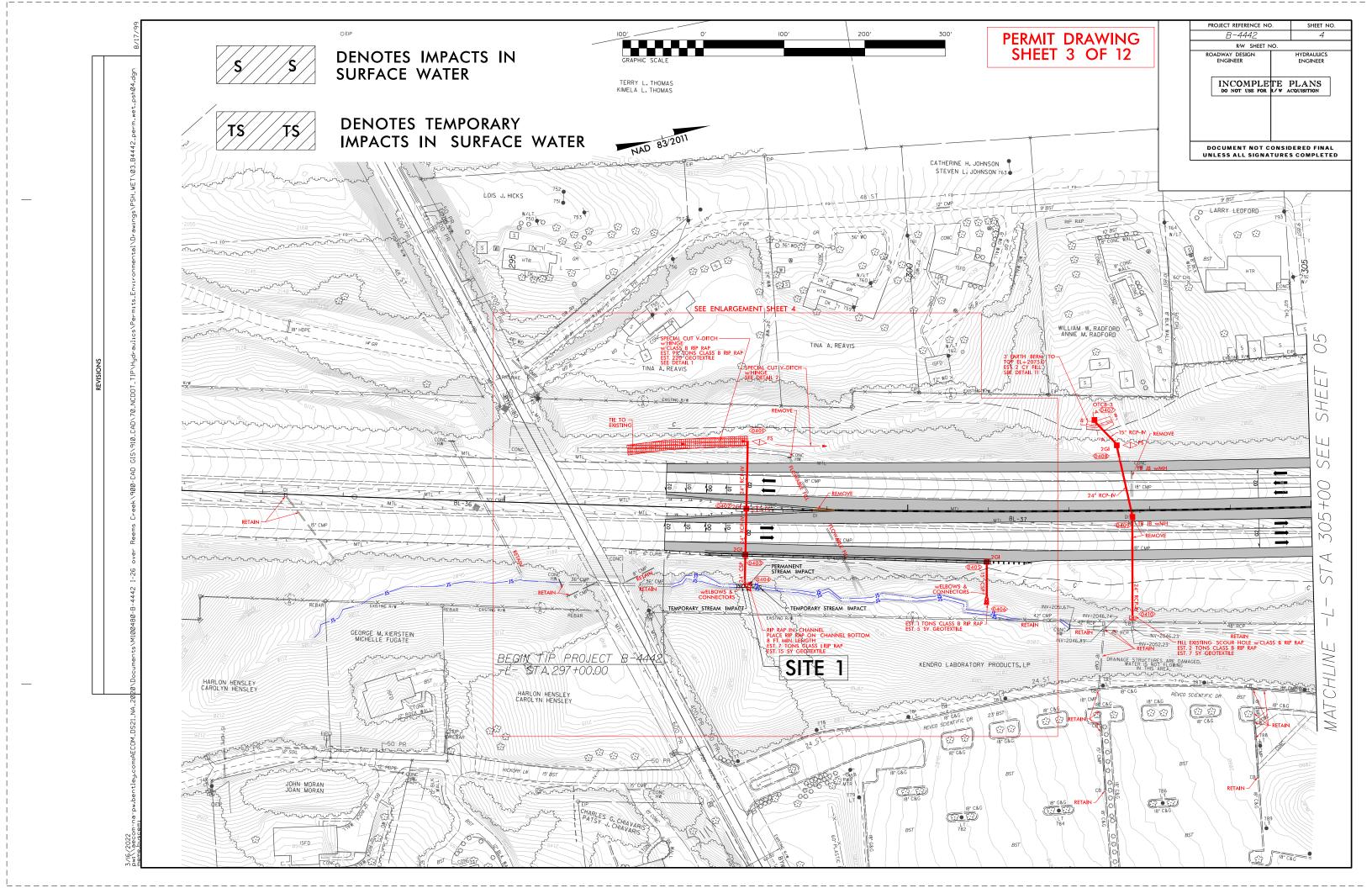


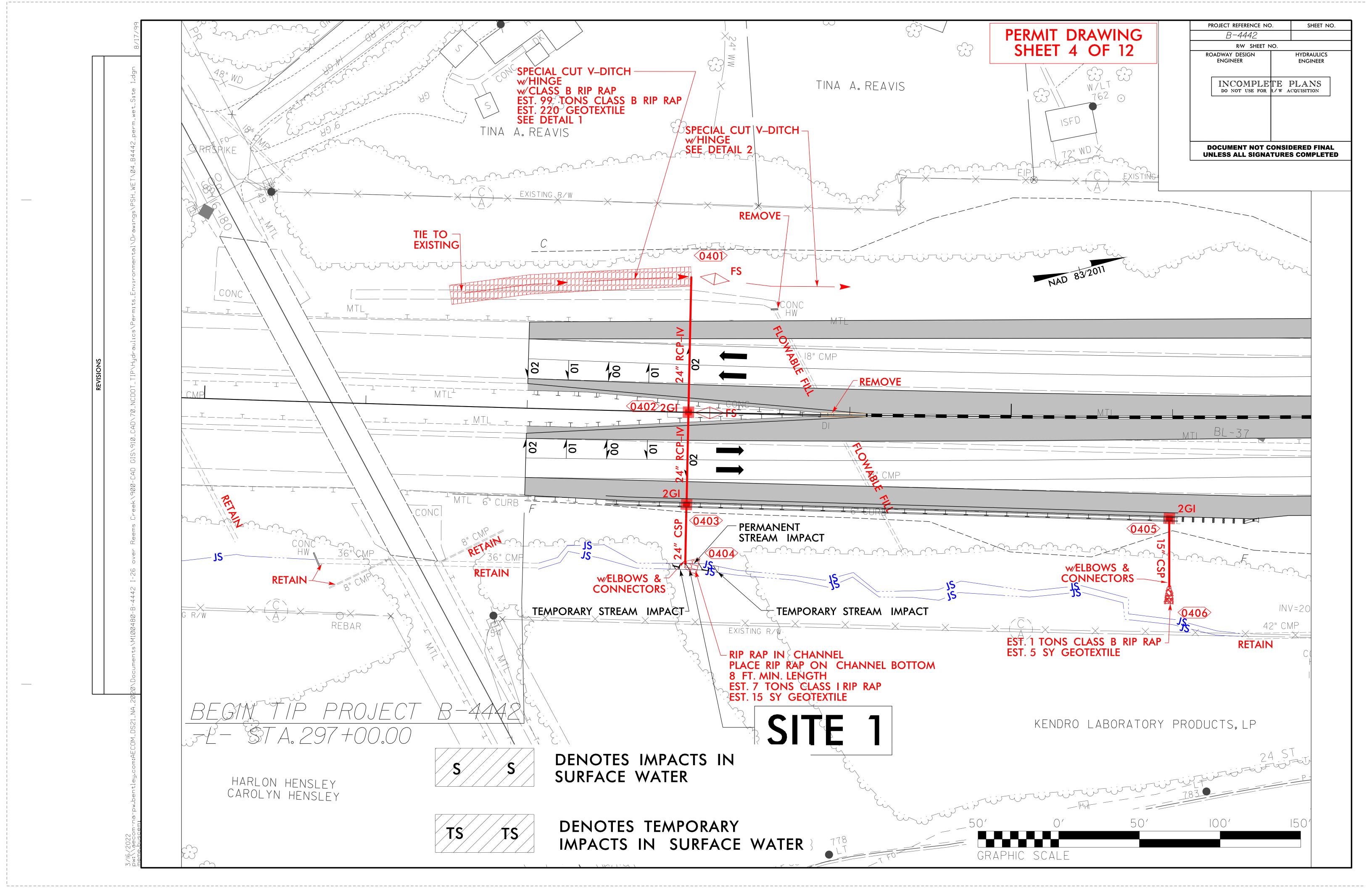
# Highway Stormwater Program STORMWATER MANAGEMENT PLAN

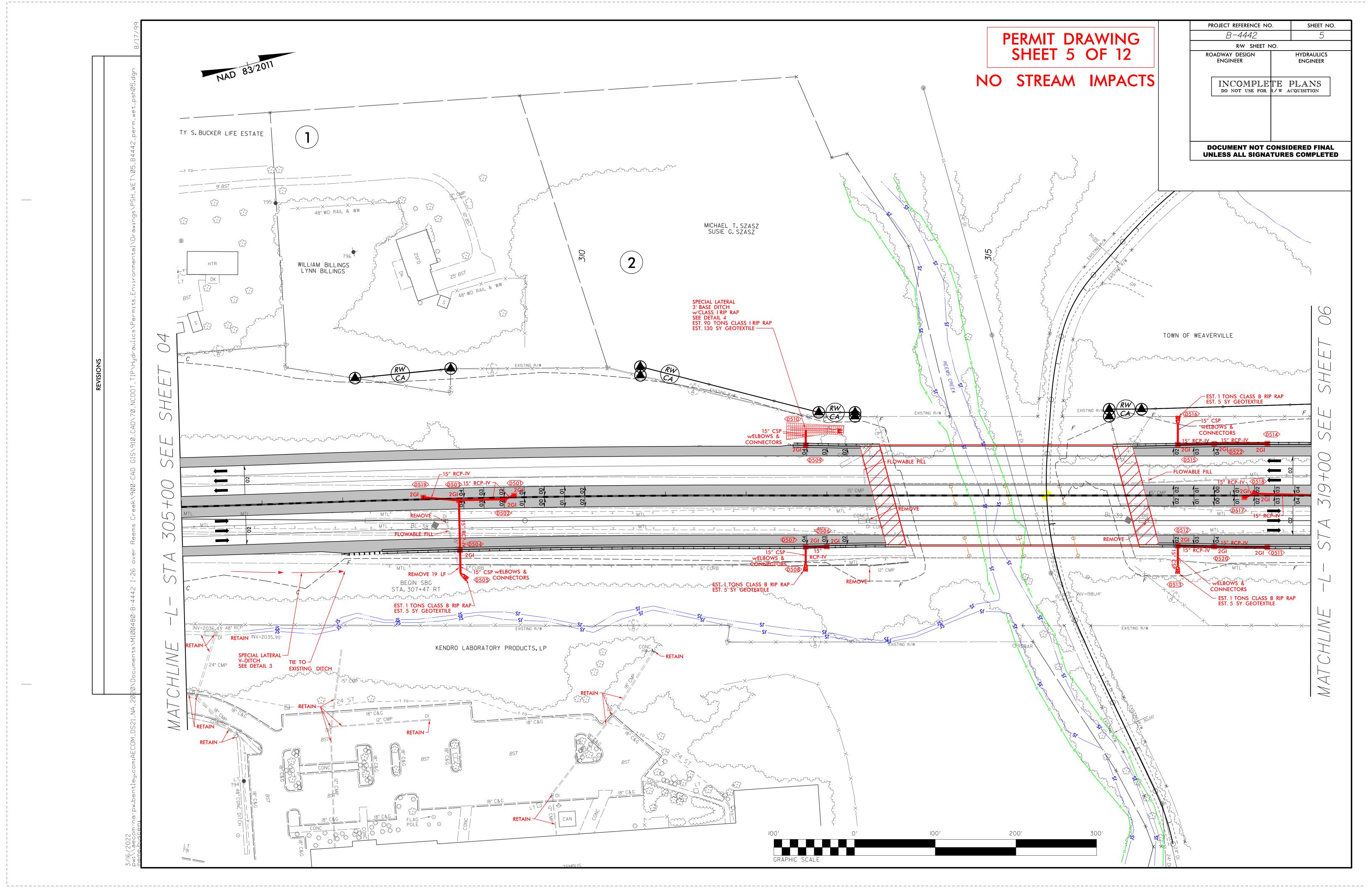
FOR NCDOT PROJECTS Version 3.00; Released August 2021) TIP/Proj No.: B-4442 WBS Element: County(ies): Buncombe 38368.1.2 Page **General Project Information** Waterbody Information Surface Water Body (1): Reems Creek NCDWR Stream Index No.: 6-87-(10) **Primary Classification:** Class C NCDWR Surface Water Classification for Water Body Supplemental Classification: None Other Stream Classification: None Impairments: None Aquatic T&E Species? No Comments: NRTR Stream ID: Reems Creek **Buffer Rules in Effect:** N/A Project Includes Bridge Spanning Water Body? Yes Deck Drains Discharge Over Buffer? No Dissipator Pads Provided in Buffer? No (If yes, provide justification in the General Project Narrative) (If yes, describe in the General Project Narrative; if no, justify in the Deck Drains Discharge Over Water Body? No General Project Narrative) (If yes, provide justification in the General Project Narrative) UT to Reems Creek NCDWR Stream Index No.: 6-87-(10) Surface Water Body (2): Primary Classification: Class C NCDWR Surface Water Classification for Water Body Supplemental Classification: None Other Stream Classification: None Impairments: None Aquatic T&E Species? No Comments: NRTR Stream ID: Buffer Rules in Effect: N/A N/A No Project Includes Bridge Spanning Water Body? Deck Drains Discharge Over Buffer? 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) N/A Deck Drains Discharge Over Water Body? General Project Narrative) (If yes, provide justification in the General Project Narrative) UT to Reems Creek NCDWR Stream Index No.: Surface Water Body (3): 6-87-(10) Primary Classification: Class C NCDWR Surface Water Classification for Water Body Supplemental Classification: None Other Stream Classification: None None Impairments: Aguatic T&E Species? No Comments: NRTR Stream ID: **Buffer Rules in Effect:** N/A Project Includes Bridge Spanning Water Body? No Deck Drains Discharge Over Buffer? Dissipator Pads Provided in Buffer? N/A (If yes, provide justification in the General Project Narrative) (If yes, describe in the General Project Narrative; if no, justify in the Deck Drains Discharge Over Water Body? N/A General Project Narrative) (If yes, provide justification in the General Project Narrative)

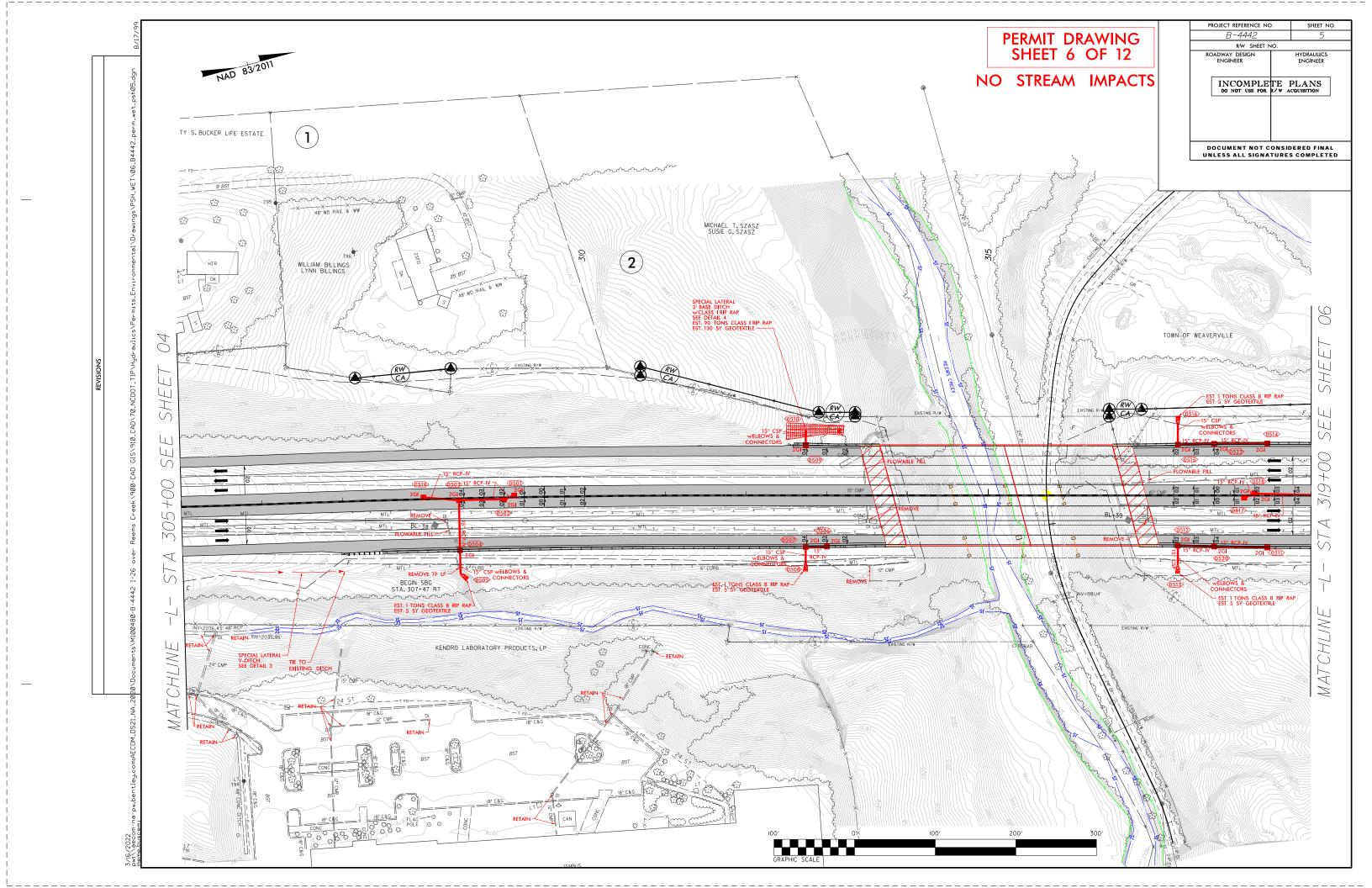


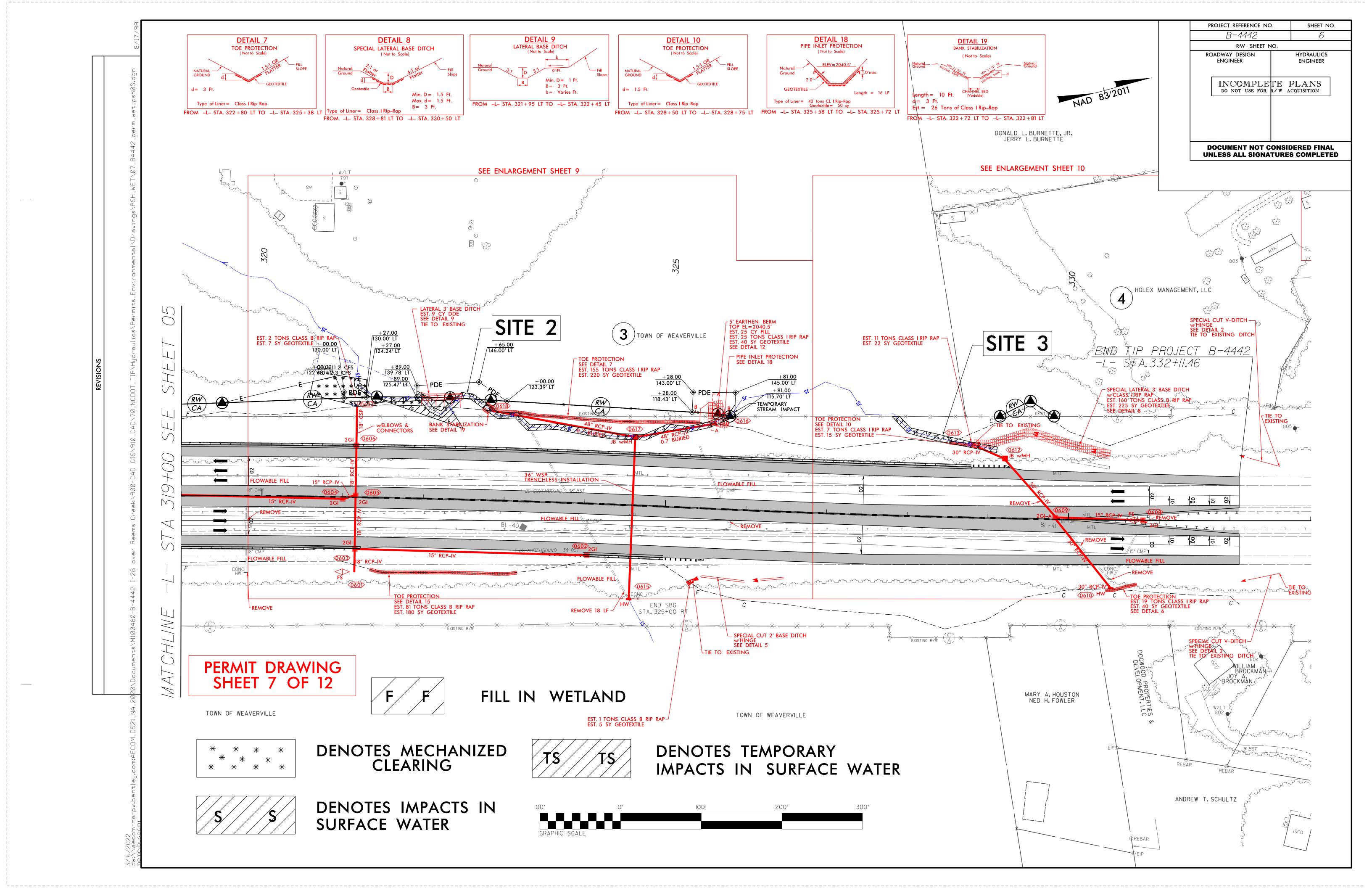


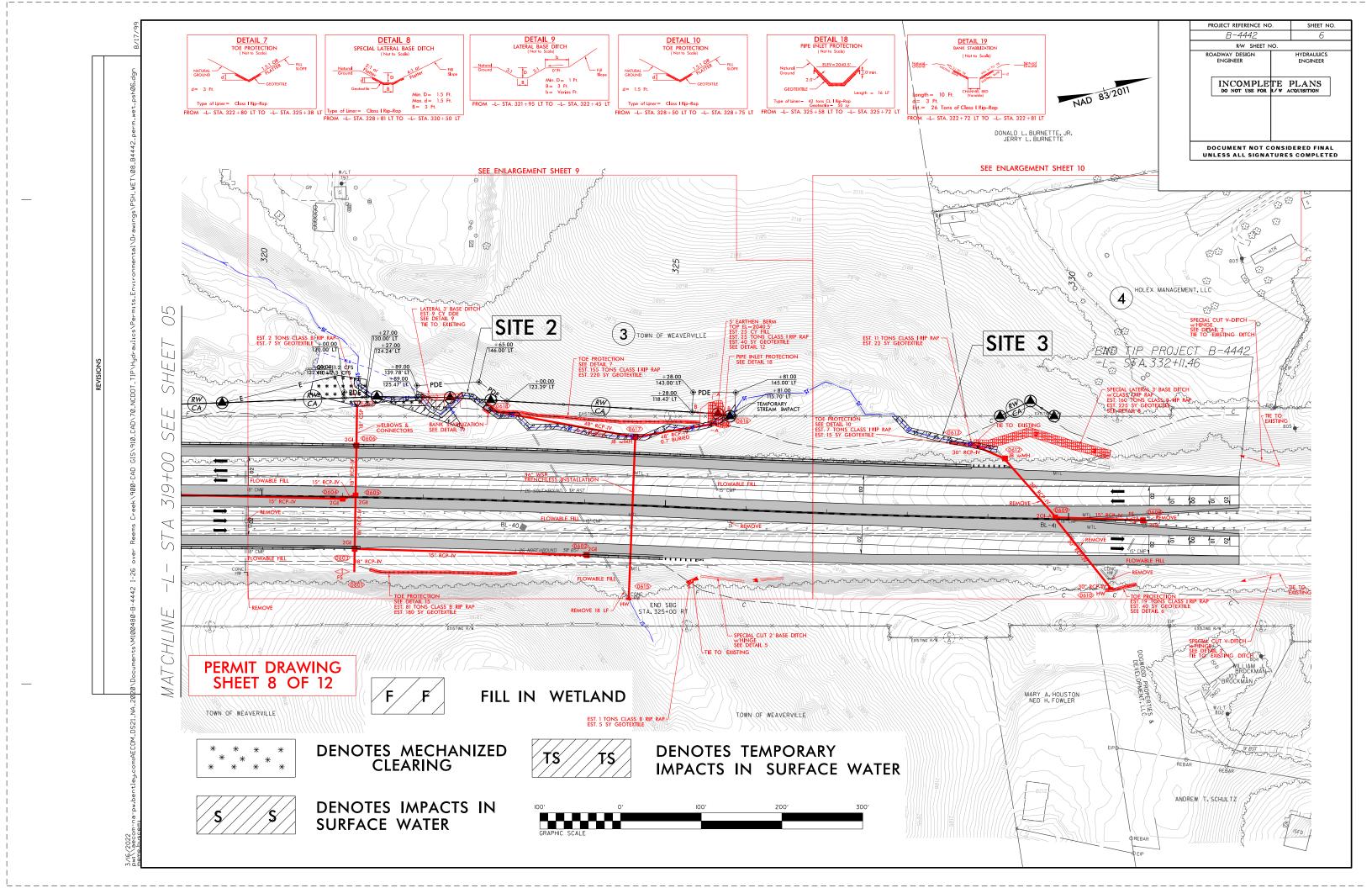


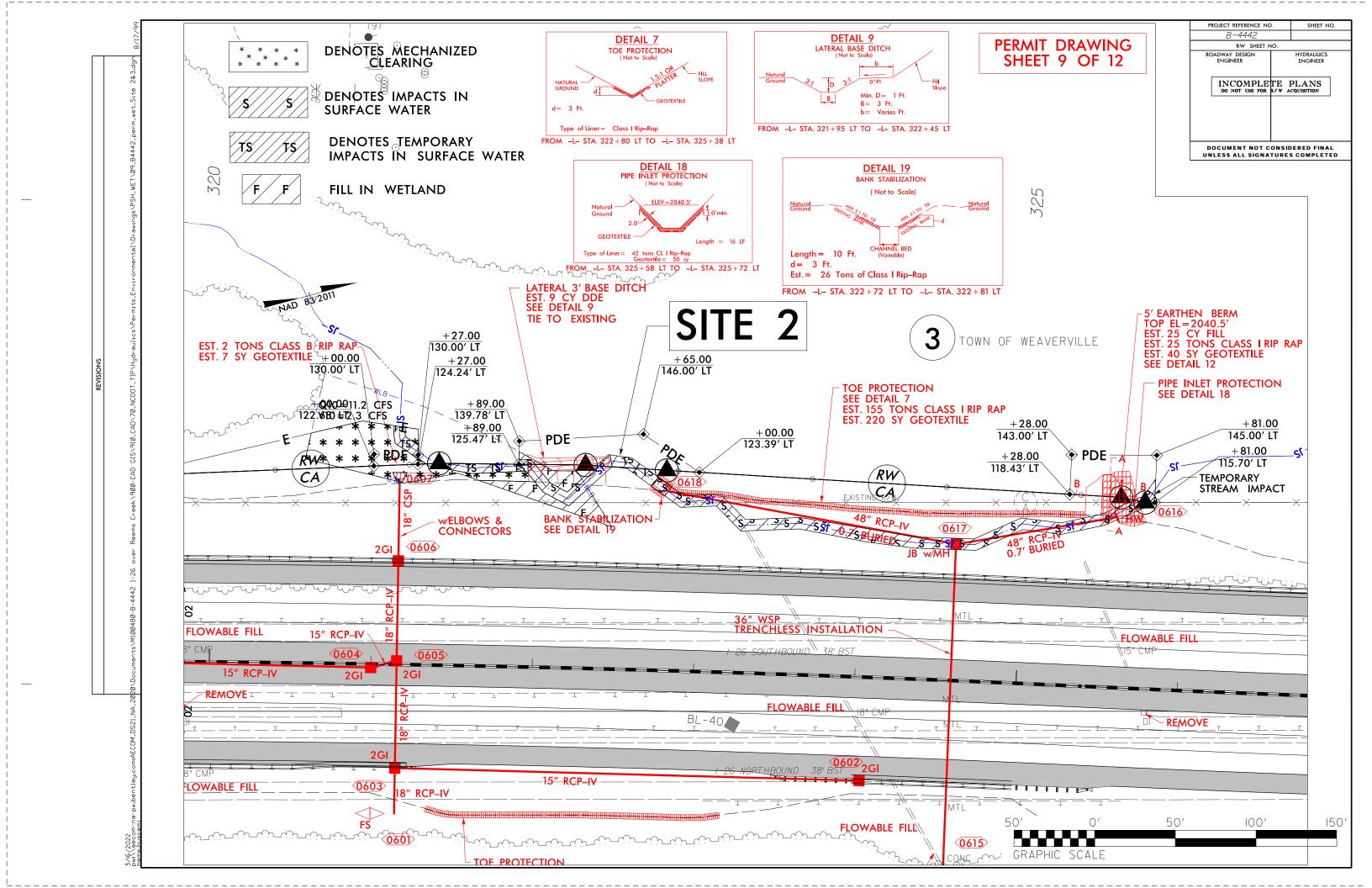


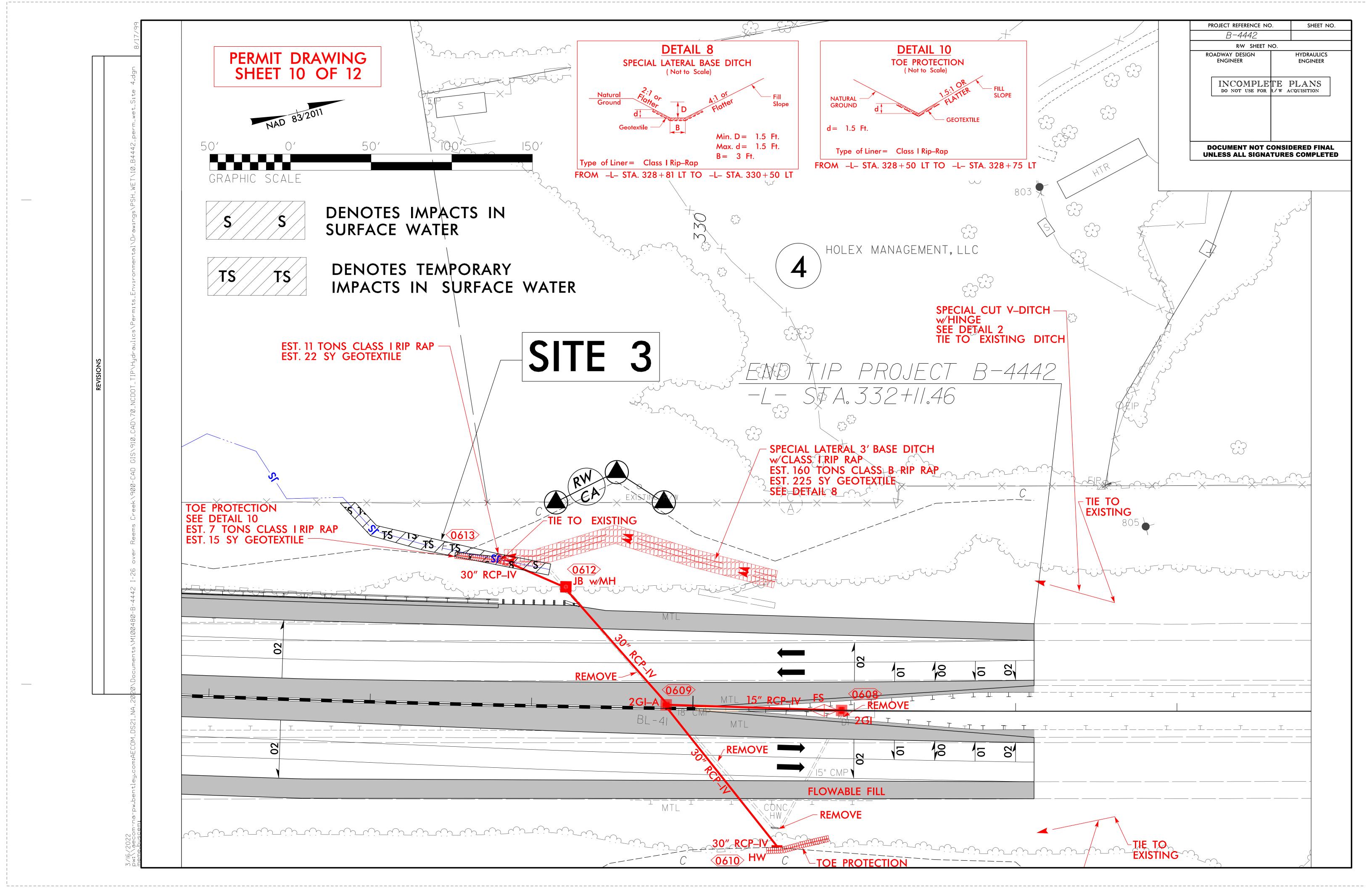












				WE.	TLAND IMP	ACTS			SURFACE	WATER IM	PACTS	
Site	Station	Structure	Permanent Fill In	Temp. Fill In	Excavation	Mechanized Clearing	Hand Clearing in	Permanent SW	Temp. SW	Existing Channel Impacts	Existing Channel Impacts	Natural Stream
No.	(From/To)	Size / Type	Wetlands	Wetlands	Wetlands	in Wetlands	Wetlands	impacts	impacts	Permanent	Temp.	Design
			(ac)	(ac)	(ac)	(ac)	(ac)	(ac)	(ac)	(ft)	(ft)	(ft)
1	-L- 297+90 RT to -L- 298+21 RT	24" Pipe						0.001	0.002	9	24	
		18" Pipe / Roadway Fill	0.020			0.048		0.011	0.010	69	92	
2	-L- 320+58 LT to -L- 325+84 LT	Toe Protection						0.050	0.005	307	31	
		Bank Stabilization						0.002	0.002	10	14	
3	-L- 327+78 LT to -L- 329+10 LT	oe Protection / Roadway Fi						0.008	0.015	51	89	
												<del>                                     </del>
TOTAL	<u> </u>		0.02			0.05		0.07	0.03	446	250	

<sup>\*</sup>Rounded totals are sum of actual impacts

NOTES:

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
03/16/2022
Buncombe
B-4442

38368.1.2
Revised 2018 Feb SHEET 12 OF 12



# United States Department of the Interior



# FISH AND WILDLIFE SERVICE Asheville Field Office 160 Zillicoa Street Suite B Asheville, North Carolina 28801

March 14, 2022

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

Subject: Informal Consultation for Bridge 370 and 373 Replacement on US 19/23/25/70 over Reems Creek in Buncombe County, North Carolina; Division 13, WBS No. 38368.1.1, (STIP B-4442)

# Dear Philip Harris:

On February 9, 2022, we received (via e-mail) your request for informal consultation and section 7 concurrence on effects the subject project may have on federally listed species. We have reviewed the information you submitted along with information from a prior start-of-study letter (July 16, 2021) and additional information submitted on March 02, 2022. The following is provided in accordance with the provisions of the National Environmental Policy Act (42 U.S.C.§ 4321 et seq.); the Fish and Wildlife Coordination Act, as amended (16 U.S.C. 661 - 667e); and section 7 of the Endangered Species Act of 1973, as amended (16 U.S.C. 1531 - 1543) (Act).

# **Project Description**

According to the information provided, the North Carolina Department of Transportation (NCDOT) is proposing to replace Bridges 370 and 373 on US 19/23/25/70 over Reems Creek in Buncombe County, North Carolina. Information provided in the July 16, 2021 start-of-study materials describes the following: The existing bridges, constructed in 1962, are considered structurally deficient. The proposed work includes replacing the existing two-lane, four-span, 270-foot-long bridges with one six-lane bridge to include a 26-foot median, 12-foot paved shoulders, and a design speed of 70 miles per hour. The span arrangements are not yet determined but are not anticipated to impact Reems Creek, Quarry Road, or the existing sanitary sewer line. The section of approach roadway will be improved from a four-lane, median-divided freeway to six lanes with a 26-foot median and 12-foot paved shoulders. The project is located between New Stock Road (Exit 21) and Weaver Boulevard (Exit 19), with total project length at approximately 0.6 miles. Approximately five acres of tree clearing will occur as part of the project action. Construction is scheduled for fiscal year 2022. NCDOT has committed to the following conservation measures:

- 1. Night work will be minimized to the maximum extent practical and will be largely limited to traffic shifts.
- 2. No artificial lighting will be added to the action area.
- 3. Erosion and sediment control measures will be implemented to reduce impacts to Reems Creek.
- 4. Deck drains will not be present on the new bridge, reducing stormwater runoff directly into Reems Creek.

# **Federally Listed Species**

Your letter provides a list of species that may occur within the project area per our Information for Planning and Consultation (IPaC) website. Based upon a review of our records and the information provided, we agree with the "no effect" determinations for mountain sweet pitcher plant (*Sarracenia rubra ssp. jonesii*), Virginia spiraea (*Spiraea virginiana*), and rock gnome lichen (*Gymnoderma lineare*).

Suitable foraging, commuting, and roosting habitat for the gray bat (*Myotis grisescens*) is present within the action area; however, roost surveys conducted on the project bridges on June 9, 2021 and previously in 2019 did not detect bats or signs of bat use. Based on this and the commitment to the conservation measures described above, we concur with the determination that the project may affect, but is not likely to adversely affect gray bat.

Based on the information provided, suitable habitat is present for Appalachian elktoe (*Alasmidonta raveneliana*) in Reems Creek within the project area. An aquatic survey for freshwater mussels was conducted on August 25, 2021 and no Appalachian elktoe were detected. Based on this and the commitment to the conservation measures described above, we concur with the determination that the project may affect, but is not likely to adversely Appalachian elktoe.

Based on the information provided, the project is consistent with the final section 4(d) rule, codified at 50 C.F.R. § 17.40(o) and effective February 16, 2016 for northern long-eared bat (*Myotis septentrionalis*, NLEB). This rule exempts take of this species for any tree cutting activity that occurs more than 0.25 mile from a known hibernation site or more than 150 feet from a known maternity roost during the pup rearing season (June 1 - July 31). Because this project meets the "exempt" criteria, any take associated with the project has already been addressed in the Biological Opinion for the 4(d) rule, and no further action under section 7 of the Act is required for this species at this time.

Please note, the U.S. Fish and Wildlife Service (Service) is currently reevaluating the listing status of NLEB, and a final listing decision is expected in 2022. Consultations that use the 4(d) rule for NLEB may need to be reinitiated if the 4(d) rule is rescinded or the listing status of the species changes during the life of the project.

Southern bog turtle (Glyptemys muhlenbergii), little brown bat (Myotis lucifugus), and tricolored bat (Perimyotis subflavus) are at-risk species (ARS), and monarch butterfly (Danaus plexippus) is a candidate species (CAN). ARS and CAN are not legally protected under the Act and are not subject to any of its provisions, including section 7, unless they are formally proposed or listed as endangered or threatened. While lead federal agencies are not prohibited from jeopardizing the continued existence of an ARS, CAN, or proposed species until the species becomes listed, the prohibition against jeopardy and taking a listed species under section 9 of the Act applies as soon as the listing becomes effective, regardless of the stage of completion of the proposed action. We are including these species in our response to give you advance notification and request your assistance in protecting them. We encourage you to coordinate projects with the North Carolina Wildlife Resources Commission (NCWRC) on behalf of these species in the event that suitable habitat and/or individuals may be affected by project actions.

We believe the requirements under section 7 of the Act are fulfilled for the federally listed species discussed above. However, obligations under section 7 must be reconsidered if: (1) new information reveals impacts of this proposed action may affect listed species or critical habitat in a manner not previously considered, (2) this proposed action is subsequently modified in a manner that was not considered in this review, or (3) a new species is listed, or critical habitat is determined that may be affected by the proposed action.

# Fish and Wildlife Resource Recommendations

We encourage consideration of the potential effects the proposed project could have on other natural resources within and surrounding the project area. The general recommendations for the benefit of fish and wildlife resources, outlined in our start-of-study response letter (August 02, 2021), remain relevant to the proposed project. Additional recommendations include:

- Direct runoff from the bridge surface into vegetated swales or similarly designed features to allow for filtering, settling, and velocity reduction to occur prior to draining into Reems Creek.
- Minimize the removal of riparian vegetation and re-plant disturbed areas with native plant species.
- Conduct tree clearing activities between **October 15 and April 1** of any given year to reduce impacts to northern long-eared bat, little brown bat, and tricolored bat.
- Should bridge demolition occur from March November, conduct a pre-demolition visual survey for roosting bats within 14 days of demolition.
  - If bats are detected, notify the Service and NCWRC to discuss appropriate avoidance measures and do not proceed with structure work until discussion with the Service and NCWRC has been concluded.

We appreciate the opportunity to provide these comments. Please contact Ms. Holland Youngman of our staff at <a href="holland\_youngman@fws.gov">holland\_youngman@fws.gov</a> if you have any questions. In any future correspondence concerning this project, please reference our Log Number 21-354.

Sincerely,

-- original signed -

Janet Mizzi Field Supervisor

21-05-0004



# HISTORIC ARCHITECTURE AND LANDSCAPES NO HISTORIC PROPERTIES AFFECTED 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 II	NFORMATION	I				
Project No:	B-4442	County:	Buncombe				
WBS No.:	38368.1.2	Document Type:	CE				
Fed. Aid No:	unassigned	Funding:	State				
Federal Permit(s):	Yes No	Permit Type(s):	USACE				
Project Description: Replace Bridges 370 and 373 on I-26 (US 19/23/25/70) over Reems Creek and Quarry Road in Buncombe County. The study area is an approximate 4,000-foot long corridor running north of Aiken Road to Salem Road. While currently state-funded, Federal funds may be used during construction of this project. Once part of the A-0010A project, the two bridges are being pulled out to be replaced since the A-0010A is progressing slowly.							
Description of review activities, field surveys, results, and conclusions:  Review of extended project area on HPOWeb GIS data was conducted in June 2021. There are no existing NR, SL, DE, LD or SS properties in the project area. The entire study area was surveyed for historic resources in 2017 during the studies for A-0010A and no historic resources were identified in this area. The two bridges were also evaluated for NR eligibility and determined to be not eligible. There is no need to conduct further surveys and the subsequent effects consultations with HPO confirm that there are no historic resources in this study area that would be affected by the project.							
SUPPORT DOCUMENTATION							
⊠Map(s) □P	revious Survey Info.	Photos Co	prrespondence Design Plans				



FINDING BY NCDOT ARCHITECTURAL HISTORIAN

 $Historic \ Architecture \ and \ Landscapes - \textbf{NO HISTORIC PROPERTIES AFFECTED}$ 

Mary Pope Furr	7/1/2021
NCDOT Architectural Historian	Date



# NO NATIONAL REGISTER OF HISTORIC PLACES ELIGIBLE OR LISTED ARCHAEOLOGICAL SITES PRESENT FORM



This form only pertains to ARCHAEOLOGICAL RESOURCES for this project. It is not valid for Historic Architecture and Landscapes. You must consult separately with the Historic Architecture and Landscapes Team.

#### PROJECT INFORMATION

Project	No:	B-4442			County:	Buncombe	
WBS No	o:	38368.1.2			Document:	Federal CE	
F.A. No	:	na			Funding:	∑ State	☐ Federal
Federal	l Permii	t Required?	Yes	☐ No	Permit Type:	USACE & po	ossible FHWA
Creek in reduced (1,066.8 from the (121.92 In all, the Federal conducted Council	ject call.  Buncor since the moder center of m) dependent e APE e funds m ed in acc on Histo	s for the replaced the County. The e Survey Required of Bridge Nos. 37 anding upon slope ancompasses appr ay be used during cordance with Sec	e archaeolo d form was ng 1,500 fee To and 373. e as it takes coximately 2 g constructi ction 106 oj 's Regulati	gical Area of submitted. It is a submitted. It is the corridation of this properties on of the National ons for Comparis the Mational ons for Comparis submitted.	of Potential Effect It is currently defi It is currently defi It north and 2,000 It north varies fr It disturbing active It distoric Preser It distoric Preser It north and Effect	ts (APE) for the ned as an appro. I feet (609.60 m) om 300 feet (91. wities associated t, this archaeolo wation Act and t	
		lina Departmen ect and determi		sportation (	(NCDOT) Arch	aeology Team	has reviewed
T o N S S C C C C	There are f potent for subsurfacubsurfacusidere all ident ompliar	e no National Recial effects. (Attaurface archaeolouce investigation and eligible for the diffied archaeologue for archaeologue for archaeologue for archaeologue	egister list ach any no ogical invents as did not not as did not	stigations vertical the preveal the provided the provided Register. In the provided Register and the provided with purces with	MEOLOGICAL Saments as needed were required for resence of any a resence of any a hin the APE have Section 106 of the completed for the	d.)  r this project.  rchaeological r  rchaeological r  re been consider  the National H	resources ered and all

# Brief description of review activities, results of review, and conclusions:

NCDOT has conducted an archaeological reconnaissance and field investigation for the proposed replacement of Bridge Nos. 370 and 373 on I-26 (US 19/23/25/70) over Reems Creek in Buncombe County, North Carolina. The project is located just southwest of Weaverville, north of Asheville, and east of the French Broad River. The project area is plotted near the center of the Weaverville USGS 7.5' topographic quadrangle (Figure 1)

#### **Background Research**

A site files search was conducted using data from the Office of State Archaeology (OSA) on May 27, 2021 (HPOWEB 2021). No previous archaeological investigations have been carried out within the project limits, and no recorded archaeological sites are within the area. However, the larger I-26 improvement corridor (TIP A-0010A) was recommended for survey by the State Historic Preservation Office (SHPO) in April 2020 (see Attachment 1). The site file review also identified six known sites (31BN7, 31BN11, 31BN19, 31BN285, 31BN860, and 31BN861) are within a mile project. Information is limited at all the site as three (31BN7, 31BN11, and 31BN19) were recorded by the University of North Carolina at Chapel Hill in the 1960s, one (31BN285) by the Office of State Archaeology in 1985, and two (31BN860 and 31BN861) by an amateur archaeologist. All the sites show evidence of precontact occupations and have yet to be assessed for the National Register. Portion of at least three sites (31BN7, 31BN11, and 31BN860) reside or extend on to ridge or hill tops made up of Clifton clay loam (CkC2), while another two (31BN7 and 31BN19) are situated partially on floodplains composed of Rosman fine sandy loam (RsA) before they continue onto terraces or ridges. These known archaeological sites, found in a setting similar to the current project area, suggest unrecorded archaeological resources may be present. As a result, an investigation for the B-4442 project area was recommended.

According to the North Carolina State Historic Preservation Office online data base (HPOWEB 2021), there are no known historic architectural resources within the APE that may yield intact archaeological deposits.

An examination of historic maps concerning this project failed to find any significant features within APE. The 1901 USGS Asheville topographic map is one of the first to display a reliable location for the project (Figure 2). This map depicts Reems Creek with no crossing at the current bridge site. Nearby structures are outside of the project area to the south, east, and west. The later 1920 Soil Map for Buncombe County illustrates the same picture (Perkins et al. 1920) (Figure 3). Finally, the 1938 North Carolina State Highway Map for Buncombe County displays the first modern road alignments for the county (NCSHPWC 1938) (Figure 4). However, no roads or crossing are in the vicinity. Overall, the historic resources suggest that no historic deposits will be encountered.

The USDA soil survey shows the newly revised APE composed of six soil types (USDA NRCS 2021) (Figure 5). The hillsides are made up of Clifton clay loam (CkD2), the Evard-Cowee complex (EvD2), and the Walnut-Oteen-Mars Hill complex (WaD2). They encompass about 28 percent of the current APE. These are well drained soils with a slope of 15 to 30 percent. Soil erosion is also moderate. No significant archaeological deposits are expected on landforms with aa slope of 15 percent or more, and therefore no subsurface tests are required on these series. The ridge tops consist also of Clifton clay loam (CkC2) but have a more gradual slope of 8 to 15 percent. Soil erosion is still considered moderate. The floodplain is of Rosman fine sandy loam (RsA). This is a well drained soil with a slope of less than 3 percent. It is subject to occasional flooding. These level soils make up about 10 percent of the current APE. They are well suited for evidence of early habitation if ground disturbance is low. Subsurface testing is recommended for these locations. Finally, the area along I-26 and a ridge top to the northwest consist of Udorthents loam (Ud) and the Udorthents-Urban land complex (UhE). These are disturbed soils in which their original characteristics have been altered by earth moving activities. They represent 62 percent of the current APE. Significant archaeological sites are not likely to be present on these soils.

#### **Fieldwork Results**

The archaeological field reconnaissance and survey for the proposed replacement of Bridge Nos. 370 and 373 on I-26 over Reems Creek was conducted on July 13, 2021. The investigation included a visual inspection and the excavation of five shovel tests (STPs) (see Figure 5). Shovel tests were judgmentally placed on landforms that were fairly level including ridge tops and the floodplain. No additional STPs were excavated on steep slopes or in areas that showed signs of obvious ground disturbance.

The project area is situated roughly north to south crossing Reems Creek, which meanders west emptying into the French Broad River. The area consists mostly of ridge tops and very steep hillside slopes; but a narrow floodplain runs along the north side of Reems Creek, while a drainageway for an unnamed tributary is in the southeast quadrant adjacent to I-26 (see Figure 5). The floodplain is entirely disturbed within the APE from a sewage pipeline running next to the creek (Figures 6 and 7). This was confirmed with the excavation of two STPs (#1 and 2), which produced only fill material. The adjacent tributary also appears to have been modified and straighten with the construction of I-26. Properties alongside I-26 are mostly densely vegetated with some residential lawns in the southwest quadrant along S. Haven Road. In general, soils were either greatly disturbed or steeply sloped.

The field investigations consisted of visually inspection of the APE with a walk-over. Fairly level locations were identified and judgmental STPs were excavated. The first two STPs were in the floodplain and confirmed the presents of a buried sewage pipeline. Manholes were found a considerable distance to the west. STPs 3 and 4 were excavated on ridge tops in the northeast quadrant. STP 3 displayed a disturbed upper soil layer of approximately 40 cm followed by very compact layer of fill. STP 4 produced a 20 cm thick layer of brown (10YR 4/3) sandy loam at the surface followed by subsoil, which is a yellow brown (10YR 5/6) clay loam. STP 5 is on a ridge top to the southwest. The upper soil layer at this test was a 25 cm thick brown (10YR 4/4) loam. Below this is subsoil, which again is a yellow brown (10YR 5/6) clay loam No cultural material was identified in any of the shovel tests. In addition, no artifacts were seen on the surface, and no surface features such as rock shelters or standing ruins were observed during the visual inspection.

#### Recommendations

The archeological investigations for the proposed replacement of Bridge Nos. 370 and 373 on I-26 over Reems Creek in Buncombe County identified no archaeological sites. All STPs were negative for cultural material, and no resources were seen above ground. It is very unlikely significant archaeological sites are present as disturbance is high and landforms are steeply sloped. No further archaeological work is recommended for this project. However, if design plans change to impact areas outside of the archaeological APE, then further consultation might be necessary.

This project falls within a North Carolina County in which the Catawba Indian Nation, the Eastern Band of Cherokee Indians, the Cherokee Nation, the United Keetoowah Band of Cherokee Indians, and Muscogee (Creek) Nation have expressed an interest. We recommend that you ensure that this documentation is forwarded to these tribes using the process described in the current NCDOT Tribal Protocol and PA Procedures Manual.

SUPPORT DOCUMENTATION								
Previous Survey Info	Notos Photos	Correspondence						
Other: historic map images								
C. Don Jan								
C. Damon Jones  NCDOT ARCHAEOLOGIST								
	Previous Survey Info	☐ Previous Survey Info ☐ Photos ic map images						

#### REFERENCES CITED

#### **HPOWEB**

2021 North Carolina State Historic Preservation Office GIS Web Service.

<a href="https://nc.maps.arcgis.com/apps/webappviewer/index.html?id=79ea671ebdcc45639f0860257d5f">https://nc.maps.arcgis.com/apps/webappviewer/index.html?id=79ea671ebdcc45639f0860257d5f</a>
<a href="mailto:5ed7">5ed7</a>. Accessed May 27, 2021.

North Carolina State Highway and Public Works Commission (NCSHPWC)

1938 North Carolina State Highway Map for Buncombe County. North Carolina State Highway and Public Works Commission, Raleigh.

Perkins, Samuel, Robert Devereux, Samuel Davidson, and William Davis

1920 Soil Map for Buncombe County, North Carolina. U.S. Department of Agriculture, Government Printing Office, Washington D.C.

United States Department of Agriculture Natural Resources Conservation Services (USDA NRCS)

Buncombe County Soil Survey. Available online at <a href="http://webosilsurvey.nrcs.usda.gov/app/">http://webosilsurvey.nrcs.usda.gov/app/</a>. Accessed May 26, 2021.

United States Geological Survey (USGS)

1901 Asheville, North Carolina-Tennessee 30 minute quadrangle map. Reprinted in 1907.

Asheville, North Carolina 7.5 minute quadrangle map.

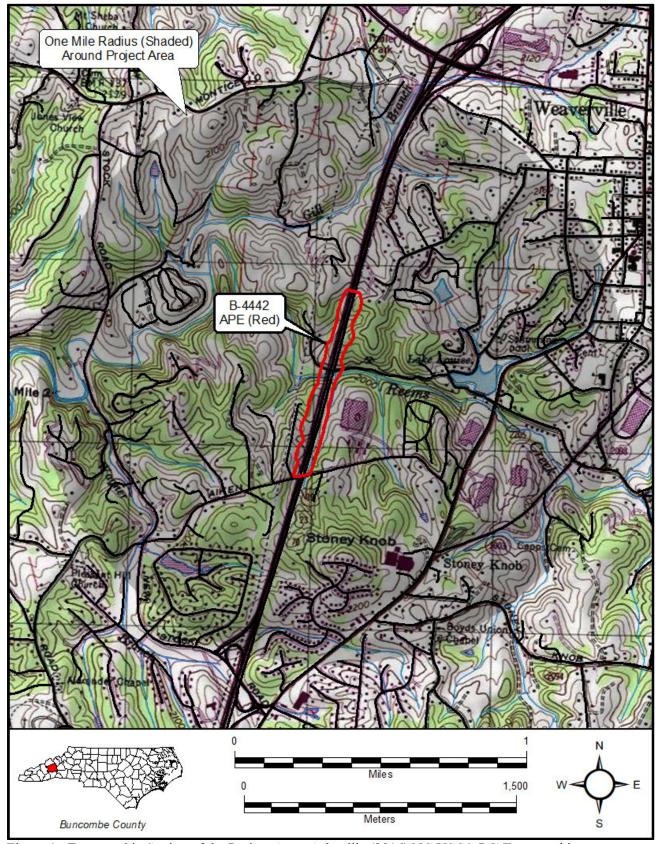


Figure 1. Topographic Setting of the Project Area, Asheville (2016) NC USGS 7.5' Topographic Quadrangle.

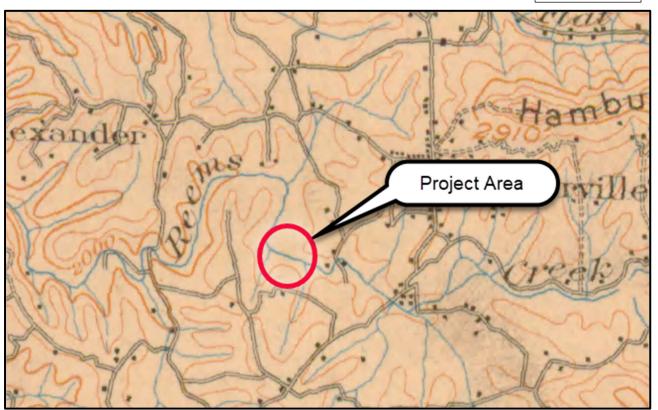


Figure 2. The 1901 USGS Asheville topographic map showing the location of the project area.

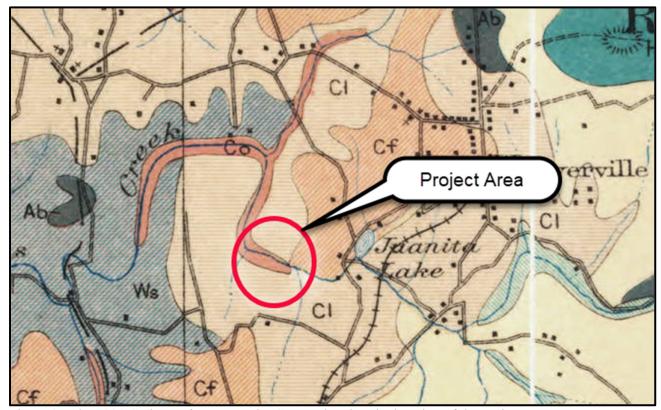


Figure 3. The 1920 Soil Map for Buncombe County showing the location of the project area.

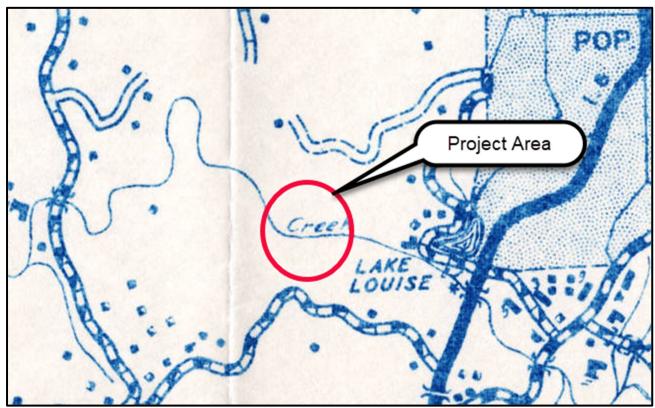


Figure 4. The 1938 North Carolina State Highway Map for Buncombe County showing the location of the project area.

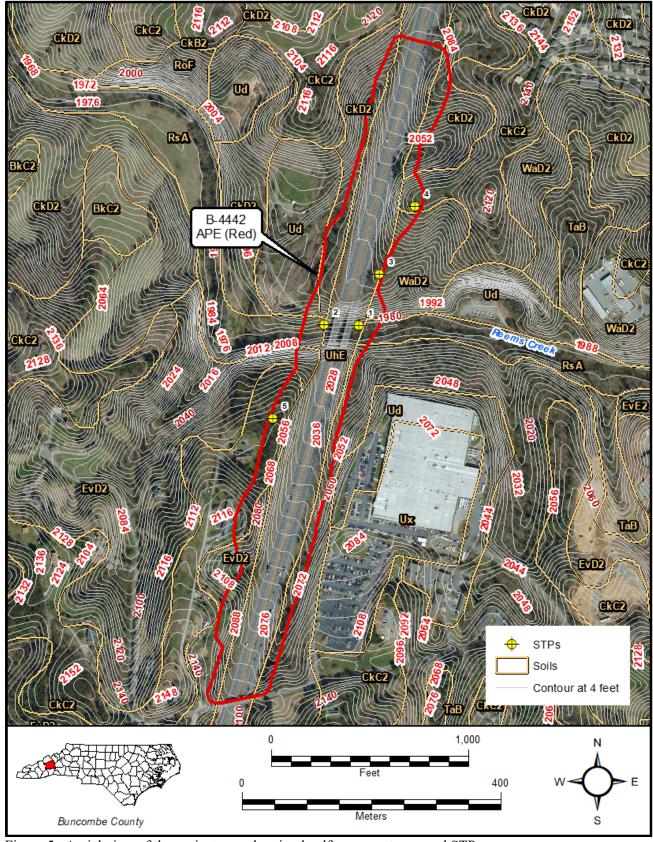


Figure 5. Aerial view of the project area showing landforms, contours, and STPs.



Figure 6. General view of the sewage pipeline in the floodplain looking west from under the bridges.



Figure 7. General view of the sewage pipeline in the floodplain looking east from under the bridges.

21-05-0004



# North Carolina Department of Natural and Cultural Resources

State Historic Preservation Office

Ramona M. Bartos, Administrator

Governor Roy Cooper Secretary Susi 11. Hamilton Office of Archives and History Deputy Secretary Kevin Cherry

April 29, 2020

Elizabeth Workman-Maurer AECOM 701 Corporate Center Drive Suite 475 Raleigh, NC 27607

liz.workman@aecom.com

Re: US 19/23, Future I-26, Improvements, A-0010A, Buncombe County, ER 13-2173

Dear Ms. Workman-Maurer:

Thank you for your email of March 16, 2020, reinitiating the archaeological review for the above-referenced project. We have reviewed the materials provided and offer the following comments.

We recommend that a comprehensive archaeological survey be conducted prior to the initiation of any ground disturbing activities within the project area. The purpose of this survey is to locate archaeological sites and make recommendations regarding their eligibility status in terms of the National Register of Historic Places.

The work should be conducted by an experienced archaeologist who meets the Secretary of the Interior professional qualification standards. A list of archaeological consultants who have conducted or expressed an interest in contract work in North Carolina is available at https://archaeology.ncdcr.gov/archaeologicalconsultant-list. The archaeologists listed, or any other experienced archaeologist, may be contacted to conduct the recommended survey. Please note that our office now requests consultation with the Office of State Archaeology Review Archaeologist to discuss appropriate field methodologies prior to the archaeological field investigation.

One paper copy and one digital copy (PDF) of all resulting archaeological reports, as well as a digital copy (PDF) of the North Carolina Site Form for each site recorded, should be forwarded to the Office of State Archaeology (OSA) through this office, for review and comment as soon as they are available and in advance of any construction or ground disturbance activities. OSA's Archaeological Standards and Guidelines for Background Research, Field Methodologies, Technical Reports, and Curation can be found online at: https://files.nc.gov/dncrarch/OSA Guidelines Dec2017.pdf.

The above comments are made pursuant to Section 106 of the National Historic Preservation Act and the Advisory Council on Historic Preservation's Regulations for Compliance with Section 106 codified at 36 CFR Part 800.

Location: 109 East Jones Street, Raleigh NC 27601 Mailing Address: 4617 Mail Service Center, Raleigh NC 27699-4617 Telephone/Fax: (919) 807-6579/807-6599

Attachment 1. Copy of SHPO letter recommending an archaeological survey for the TIP A-0010A.

Thank you for your cooperation and consideration. If you have questions concerning the above comment, contact Renee Gledhill-Earley, environmental review coordinator, at 919-814-6579 or environmental.review@ncdcr.gov. In all future communication concerning this project, please cite the above referenced tracking number. Sincerely, Rence Bledhill-Earley Ramona Bartos, Deputy State Historic Preservation Officer cc: Matt Wilkerson, NCDOT mtwilkerson@ncdot.gov

Attachment 1. Copy of SHPO letter recommending an archaeological survey for the TIP A-0010A (continued).