



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

JOSH STEIN
GOVERNOR

DANIEL H. JOHNSON
SECRETARY

October 14, 2026

MEMORANDUM TO: Division Environmental and Construction Units

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

SUBJECT: Environmental Permits for the Replacement of:
Buncombe Bridge 149 over Walker Branch on SR 2173 (Coleman Boundary
Road) Division 13, WBSDF18313.2011361.PR.

Please find enclosed the following permits for this project:

Agency	Permit Type	Expiration
US Army Corps of Engineers Section 404 Clean Water Act Permit	Nationwide Permit 3 Action ID: SAW-2012-00553 Dated October 13, 2026	March 14, 2031
NC Division of Water Resources Section 401 Water Quality Certification	Water Quality Certification No. 8562 Project ID: 20261324 <i>Written authorization not required.</i>	expires with above Permit

Work is authorized by the above-referenced documents and must be accomplished in strict accordance with the permitted plans.

The Environmental Coordination and Permitting Group (ECAP) 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/EnvironmentalPermits/_General_Conditions_and_Certifications/

404 Permit (USACE)



DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, WILMINGTON DISTRICT
ASHEVILLE REGULATORY FIELD OFFICE
151 PATTON AVENUE, ROOM 208
ASHEVILLE, NORTH CAROLINA 28801

October 13, 2026

Regulatory Division
SAW-2012-00553 (Br 149 Walker Branch, Buncombe)

North Carolina Department of Transportation
Attention: Mr. Michael Turchy
Environmental Coordination & Permitting (Division 13)
1598 Mail Service Center
Raleigh, North Carolina 27699

Sent Via Email: maturchy@ncdot.gov

Dear Mr. Turchy,

This letter is in response to the Pre-Construction Notification (PCN) you submitted to the U.S. Army Corps of Engineers (USACE), Wilmington District, WRDA/Transportation Branch on October 5, 2026, for a Department of the Army general permit verification. The project review area is located at Bridge 149 over Walker Creek, along Coleman Boundary Road (SR 2173) to the northeast of the intersection of Dillingham Road, at latitude 35.75506 and longitude -82.38569; in Buncombe County, North Carolina. This project has been assigned File No. SAW-2012-00553 and should be referenced in all correspondence concerning this project.

A review of the information provided indicates that the proposed work would include the replacement of the North Carolina Department of Transportation (NCDOT) structure 149 on Coleman Boundary Road (SR 2173) due to damage caused by Tropical Storm Helene in September 2024. The existing approximate 25-foot-long structure would be replaced with a new approximate 30-foot-long bridge in the same location as the existing structure. A temporary detour bridge would be constructed immediately upstream of the existing structure, as SR 2173 has no outlet to pass traffic. In order to accomplish this work, the NCDOT proposes to conduct the following activities in waters of the U.S.:

Summary of Proposed Impacts

Impact ID #	Activity	NWP / GP #	Open Water (ac)		Wetland (ac)		Stream (lf)	
			Temp	Perm	Temp	Perm	Temp	Perm
Site 1-A (Walker Creek)	Upstream bank stabilization	<u>NWP 3</u>	--	--	--	--	--	36 lf (0.014-ac)
Site 1-B (Walker Creek)	Below new bridge bank stabilization	<u>NWP 3</u>	--	--	--	--	--	22 lf (0.008-ac)
Site 1-C (Walker Creek)	Downstream bank stabilization	<u>NWP 3</u>	--	--	--	--	--	36 lf (0.011-ac)

Impact ID #	Activity	NWP / GP #	Open Water (ac)		Wetland (ac)		Stream (lf)	
			Temp	Perm	Temp	Perm	Temp	Perm
Site 1-D (Walker Creek)	Temporary bridge detour structure	NWP 3	--	--	--	--	30 lf (0.01-ac)	--
Impact Totals			0	0	0	0	30 lf (0.01-ac)	97 lf (0.03-ac)

We have determined that the proposed work is authorized by **Nationwide Permit 3 – Maintenance** pursuant to authorities under Section 404 of the Clean Water Act (33 U.S.C. § 1344). The proposed work must be accomplished in strict accordance with the general permit conditions, any regional conditions, the application materials, and the enclosed plans. If the extent of the project area and/or nature of the authorized impacts to waters are modified, a revised PCN must be submitted to this office for written approval before work is initiated. Any deviation from the terms and conditions of the permit, the special conditions of this letter, the information contained in the PCN, or your submitted plans, may subject the permittee to enforcement action.

This verification is valid until **March 15, 2031**, unless prior to this date the subject NWP(s) is suspended, revoked, or is modified such that the activity no longer complies with the terms and conditions of this NWP. If you commence or are under contract to commence this activity before the date that the relevant NWP is modified or revoked, you will have 12 months from the date of the modification or revocation of the NWP to complete the activity under the present terms and conditions of this NWP.

Project Specific Special Conditions:

1. The U.S. Fish and Wildlife Service approved a Programmatic Biological and Conference Opinion [Programmatic Opinion (PO)], and a Programmatic Conference Report titled "Five Imperiled Bat Species in Western North Carolina" on April 1, 2025. This PO contains mandatory terms and conditions to implement the reasonable and prudent measures that are associated with "incidental take" that are specified in the PO. Your authorization under this USACE authorization/verification is conditional upon your compliance with all the mandatory terms and conditions associated with incidental take of the PO, which are incorporated by reference in this authorization/verification. Failure to comply with the terms and conditions associated with incidental take of the PO, where a take of the listed species occurs, would constitute an unauthorized take, and it would also constitute non-compliance with your USACE authorization/verification. The USFWS is the appropriate authority to determine compliance with the terms and conditions of its PO, and with the ESA.
2. NCDOT shall adhere to conditions #1-5 of the North Carolina Wildlife Resources Commission letter of October 12, 2026 (attached).
3. NCDOT shall require its contractors and/or agents to comply with the terms and conditions of this authorization letter in the construction and maintenance of this project and shall provide each of its contractors and/or agents associated with the construction or maintenance of this project with a copy of this authorization letter, all

conditions, and any authorized modifications. A copy of this authorization letter, all conditions, and any authorized modifications, shall be available at the project site during construction and maintenance of this project.

This general permit verification and any associated authorizations does not preclude the necessity to obtain any other Federal, State, or local permits, licenses, and/or certifications, which may be required.

If you have any questions related to this verification or have issues accessing documents referenced in this letter, please contact Brooke Davis, Regulatory Project Manager of the WRDA/Transportation Branch at 828-271-7980 ext. 4232, by mail at the above address, or by email at brooke.a.davis@usace.army.mil. Please take a moment to complete our customer satisfaction survey located at <https://regulatory.ops.usace.army.mil/customer-service-survey/>.

Sincerely,

A handwritten signature in black ink that reads "M. Scott Jones". The signature is written in a cursive, flowing style.

M. Scott Jones, PWS
WRDA / Transportation Branch Chief
USACE, Wilmington District

Enclosures

Copies furnished (via email only):

Amy Annino, North Carolina Division of Water Resources
Dave McHenry, North Carolina Wildlife Resources Commission

U.S. Army Corps of Engineers (USACE) CERTIFICATION OF COMPLIANCE WITH DEPARTMENT OF THE ARMY PERMIT For use of this form, see Section 404 of the Clean Water Act, Section 10 of the Rivers and Harbors Act of 1899, and Section 103 of the Marine Protection, Research, and Sanctuaries Act; the proponent agency is CECW-COR.		Form Approved - OMB No. 0710-0003 Expires 2027-10-31
The Agency Disclosure Notice (ADN)		
The Public reporting burden for this collection of information, 0710-0003, is estimated to average 10 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or burden reduction suggestions to the Department of Defense, Washington Headquarters Services, at whs.mc-alex.esd.mbx.dd-dod-information-collections@mail.mil. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.		
PURPOSE: This form is used by recipients of U.S. Army Corps of Engineer Regulatory permits to certify compliance with the permit terms and conditions. Your permitted activity is subject to a compliance inspection by a U.S. Army Corps of Engineers representative. If you fail to comply with this permit, you are subject to permit suspension, modification, or revocation.		
Upon completion of the activity authorized by this permit and any mitigation required by the permit, sign this certification and return it to the U.S. Army Corps of Engineers, Wilmington District, Regulatory Office. The certification can be submitted by email at brooke.a.davis@usace.army.mil or by mail at the below address: U.S. Army Corps of Engineers Wilmington District Office, Asheville Field Office 151 Patton Avenue, Room 208 Asheville, North Carolina 28801		
COMPLETED BY THE CORPS		
Corps Action Number:	SAW-2012-00553	
Permit Type:	Nationwide Permit	
General Permit Number and Name (<i>if applicable</i>):	3-Maintenance	
Name of Permittee:	NC Department of Transportation	
Project Name:	Helene Br 149, Walker Branch on SR 2173, Buncombe/Div 13/WBS DF18313.2011361.PR	
Project Location (<i>physical address</i>):	Coleman Boundary Road	
	Buncombe County, North Carolina	
PERMITTEE'S CERTIFICATION		
Date Work Started: _____ Date Work Completed: _____		
Enclose photographs showing the completed project (<i>if available</i>).		
I _____ hereby certify that the work authorized by the above referenced permit has been completed in accordance with all of the permit terms and conditions, and that any required compensatory mitigation has been completed in accordance with the permit conditions.		
Name	Date	Signature

The maximum estimate for tree clearing per structure replacement location is 0.10 acre. That amount will likely be less at most locations, given the variability in site conditions and the extreme scour (and resulting loss of riparian vegetation) during TS Helene flooding. The season during which clearing will occur is not known for each location but is assumed to occur during any time of year, including summer months. Clearing and grading will occur to allow for access roads and general construction functionality.

Where damaged structures or portions of damaged structures remain in place, demolition will occur. The details of demolition activities and seasonality of demolition will vary by project, with an assumption that these activities will occur during any time of year, including summer months.

2.3 Avoidance and Minimization and Conservation Measures

NCDOT will employ the following agency standards, guidelines, and best practices to avoid and minimize project-mediated activities that could negatively impact listed/proposed species or their habitat.

2.3.1 Avoidance and minimization measures (AMMs)

General (regardless of species): The following General AMMs will be implemented on all projects to minimize impacts to listed/proposed species and habitat:

- General AMM1 -NCDOT will ensure all operators, employees, and contractors working in areas of suitable habitat for federally listed/proposed species are aware of all NCDOT environmental commitments, including all applicable AMMs and all associated NCDOT guidance documents.
- General AMM2 - Best management practices (BMP) and sediment and erosion control (SEC) measures will be utilized to prevent non-point source pollution, control storm water runoff, and minimize sediment damage to avoid and reduce overall water quality degradation.
- General AMM3 - Areas of disturbance, such as tree clearing, grubbing, and grading, will be limited to the maximum extent possible.

Bats - General AMMs will minimize impacts to listed/proposed bats. **To the maximum extent possible**, the following AMMs will also be incorporated into project work – though implementation of all bat AMMs below cannot be guaranteed at the time of this consultation, given the scale, scope, and timeline constraints addressed previously:

- Bat AMM Noise - Percussive activities will occur only after the tree clearing within the action area has been completed, helping to reduce the exposure of any tree-roosting bats within the action area to high decibel noise.
- Bat AMM Lighting - No new permanent lighting will be added to the action area. Any lighting needed for night work will be directed at the work area and shielded from surrounding waters/landscape, only on when needed, no brighter than necessary, and blue light emissions will be limited.
- Bat AMM Riparian Planting – Disturbed riparian areas will be replanted with native, fast-growing tree and shrub species where feasible, with the understanding that plantings likely cannot be done in utility/drainage/construction easements.



◻ North Carolina Wildlife Resources Commission ◻

M. Kyle Briggs, Executive Director

October 12, 2026

Brooke A. Davis

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

Amy Annino

401 and Buffer Transportation Permitting Branch
North Carolina Department of Environmental Quality
2090 U.S. 70 Highway, Swannanoa, NC 28778-8211

SUBJECT: Comments on Application for Replacement of Bridge 149 on Coleman Boundary Road
(SR 2173) over Walker Branch, Buncombe County
DF18313.2011361, DWR 20261324 ver.1

The North Carolina Department of Transportation (NCDOT) applied for a 404 Permit and 401 Certification for the subject project. The North Carolina Wildlife Resources Commission's (NCWRC) comments are offered to help conserve the wildlife resources affected by the project and to promote wildlife-based recreation in accordance with applicable provisions of the Clean Water Act of 1977 (33 U.S.C. 466 et seq.) and the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661-667d).

The project will replace a bridge over Walker Branch that was damaged by flooding from Hurricane Helene. The new structure will be a similar timber bridge built on the original bridge alignment. There will be a temporary bridge placed just downstream to handle traffic.

Walker Branch (WS-II Tr HQW) supports trout though habitat has been altered by the storm and even more by clean-up activities. Recent sampling upstream found wild trout still in this stream, though fish abundance was low. Trout populations are likely recovering in this stream. As noted in scoping comments for this bridge project, the upcoming moratoria for Brook and Rainbow Trout (October 15, 2026 to April 15, 2027, and subsequent moratorium periods), should be adhered to for instream

disturbance from this bridge work. Examples of instream work with this project may be channel excavation and removal of the temporary bridge and final grading.

The NCWRC requests that the following conditions be included in authorizations to help conserve trout and other aquatic resources affected by the project:

1. The upcoming moratoria for Rainbow and Brook Trout (October 15, 2026 to April 15, 2027, and subsequent moratorium periods), should be adhered to for instream disturbance from this bridge work.
2. Applicable measures from the current *NCDOT Erosion and Sediment Control Design and Construction Manual* should be adhered to. *Design Standards for Sensitive Waters* (15A NCAC 04B .0124) should apply to erosion controls due to the stream's ORW designation, trout habitat, and other important aquatic habitat
3. In accordance with standard GC conditions, matting used in riparian areas should not contain nylon mesh because it entangles and kills wildlife. Coir matting should be used on disturbed stream banks that are steep or susceptible to high water. Matting should be anchored with wooden stakes according to NCDOT specifications.
4. Heavy equipment needs to be well-maintained and concrete pouring needs to be closely monitored to avoid and quickly mitigate fuel, fluid, or wet concrete losses in or near streams.
5. Sandbags, rock berms, cofferdams, or other diversion structures should be used where excavation or other periods of extended stream disturbance has the potential for downstream sedimentation.

Thank you for the opportunity to review and provide recommendations on this project. Please contact me at david.mchenry@ncwildlife.gov or (828) 476-1966 if you have any questions about these comments.

Sincerely,



Dave McHenry, NCWRC Western DOT Coordinator

cc: Yates Allen, NCDOT Division 14 Environmental Specialist II
Mike Sanderson, NCDOT Division 14 Environmental Supervisor
Michael Turchy, NCDOT ECAP

401 Certification (NCDWR)

*Written
Authorization
Not Required*

Permitted Drawings



North Carolina Department of Transportation

Highway Stormwater Program
STORMWATER MANAGEMENT PLAN
FOR NCDOT PROJECTS

(Version 3.03; Released June 1, 2026)

WBS Element: DF18313.2011361.PR TIP/Proj No: 100149 County(ies): Buncombe Page 1 of 2

General Project Information

WBS Element:		DF18313.2011361.PR	TIP Number:		100149	Project Type:		Bridge Replacement	Date:	8/3/2026
NCDOT Contact:		Walker Branch Creek				Contractor / Designer:		6-96-1-2		
	Address:	Assistant Division Bridge Program Manager					Address:	5808 Faringdon Place		
		20 Old 74						Suite 100		
	Asheville, NC 28803				Raleigh, NC 27609					
	Phone:	(828) 488-0902					Phone:	(919) 650-1038		
	Email:	jmdavis4@ncdot.gov					Email:	rmitchell@drmp.com		
City/Town:		N/A				County(ies):		Buncombe		
River Basin(s):		French Broad				CAMA County?		No		
Wetlands within Project Limits?		No								

Project Description

Project Length (lin. miles or feet):	0.03	Surrounding Land Use:	Rural with forested land and a few residential parcels					
	Proposed Project				Existing Site			
Project Built-Up Area (ac.)	0.14	ac.		0.02	ac.			
Typical Cross Section Description:	Typical Section includes two 9-foot travel lanes with 2-foot shoulders and an additional 8-foot graded area along the left side. The roadway is crowned at the centerline with variable travel-lane cross slopes and 8% shoulder slopes. Runoff is conveyed to roadside grassed ditches with 4:1 foreslopes and 2:1 maximum backslopes. The bridge section provides a 20 foot clear roadway consisting of two 10-foot lanes with a 2% crown from the centerline, timber bridge rail systems, and a 21-foot out-to-out structure width.				The existing site consists of an approximately 17-foot-wide roadway with narrow grass shoulders approaching an existing 25-foot overall length, approximately 20-foot-wide timber deck bridge supported by steel I-beams and vertical reinforced concrete abutments. The bridge provides approximately 18 feet of clear roadway width.			
Annual Avg Daily Traffic (veh/hr/day):	Design/Future:	N/A	Year:	N/A	Existing:	230	Year:	2025

General Project Narrative:
(Description of Minimization of Water
Quality Impacts)

The North Carolina Department of Transportation (NCDOT) proposes to replace Bridge No. 100149 on SR 2173 (Coleman Boundary Road) over Walker Branch Creek in Buncombe County, approximately 1.1 miles east of the junction with SR 2165. The project, initiated in response to impacts associated with Storm Helene, consists of an in-line replacement of the existing single-span timber deck bridge. The replacement structure is anticipated to be constructed at the existing crossing, with the preliminary design evaluating single-span cored-slab and timber bridge alternatives. Associated roadway approach reconstruction, drainage improvements, and stabilization of disturbed streambank and channel areas will be completed within the project limits. Temporary construction impacts will be restored to stable contours and revegetated following construction. NCDOT standards for erosion and sediment control, ground cover, vegetation establishment, and slope stabilization will be implemented throughout the project in accordance with the project plans and specifications.



North Carolina Department of Transportation

Highway Stormwater Program
STORMWATER MANAGEMENT PLAN

FOR NCDOT PROJECTS



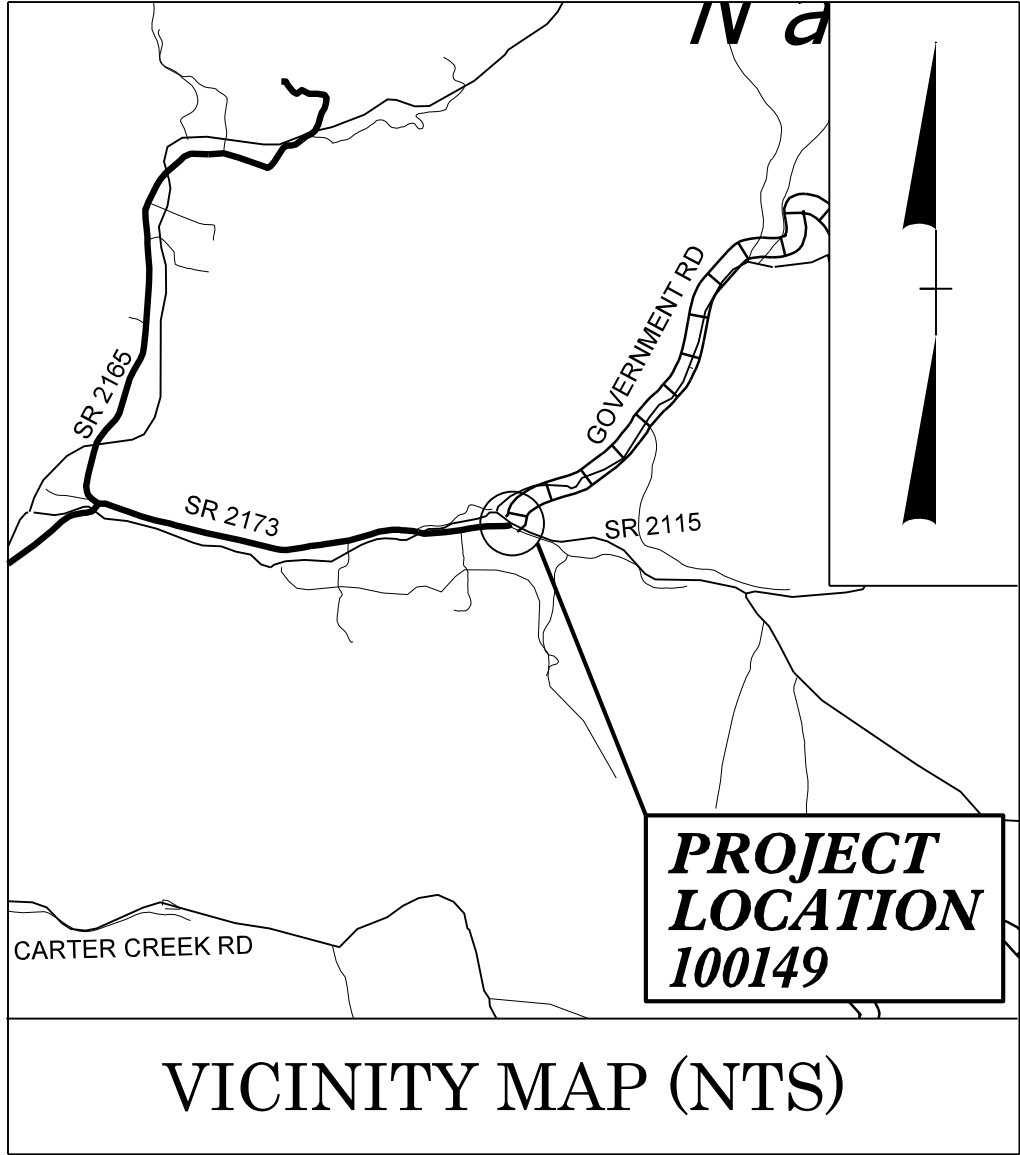
(Version 3.03; Released June 1, 2026)

WBS Element: DF18313.2011361.PR		TIP/Proj No.: 100149		County(ies): Buncombe		Page 2 of 2	
General Project Information							
DF18313.2011361.PR 8/3/2026							
Surface Water Body (1):		Walker Branch Creek		NCDWR Stream Index No.:		6-96-1-2	
NCDWR Surface Water Classification for Water Body		Primary Classification:		Water Supply II (WS-II)			
		Supplemental Classification:		Trout Waters (Tr) (HQW)			
Other Stream Classification:		None					
Impairments:		None					
Aquatic T&E Species Habitat?		Yes		Comments: French Broad crayfish (Cambarus reburus)			
NRTR Stream ID:		N/A		Buffer Rules in Effect:		N/A	
Project Includes Bridge Spanning Water Body?		Yes		Deck Drains Discharge Over Buffer?		N/A	
Deck Drains Discharge Over Water Body?		No		(If yes, provide justification in the General Project Narrative)		Dissipator Pads Provided in Buffer?	
(If yes, provide justification in the General Project Narrative)						No	
(If yes, provide justification in the General Project Narrative)						(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)	
Surface Water Body (2):				NCDWR Stream Index No.:			
NCDWR Surface Water Classification for Water Body		Primary Classification:					
		Supplemental Classification:					
Other Stream Classification:				N/A		230	
Impairments:		Transportation (NCDOT)				2025	
Aquatic T&E Species Habitat?				Comments:			
NRTR Stream ID:				Buffer Rules in Effect:			
Project Includes Bridge Spanning Water Body?				Deck Drains Discharge Over Buffer?		Dissipator Pads Provided in Buffer?	
Deck Drains Discharge Over Water Body?				(If yes, provide justification in the General Project Narrative)		(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)	
(If yes, provide justification in the General Project Narrative)						(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)	
(If yes, provide justification in the General Project Narrative)							
Surface Water Body (3):				NCDWR Stream Index No.:			
NCDWR Surface Water Classification for Water Body		Primary Classification:					
		Supplemental Classification:					
Other Stream Classification:							
Impairments:							
Aquatic T&E Species Habitat?				Comments:			
NRTR Stream ID:				Buffer Rules in Effect:			
Project Includes Bridge Spanning Water Body?				Deck Drains Discharge Over Buffer?		Dissipator Pads Provided in Buffer?	
Deck Drains Discharge Over Water Body?				(If yes, provide justification in the General Project Narrative)		(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)	
(If yes, provide justification in the General Project Narrative)						(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)	
(If yes, provide justification in the General Project Narrative)							

PROJECT: 100149

CONTRACT: C205122

See Sheet 1A For Index of Sheets



VICINITY MAP (NTS)

PRELIMINARY ROADWAY PLANS
SUBMITTAL NO. S-0002
MAY 1, 2026

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

BUNCOMBE COUNTY

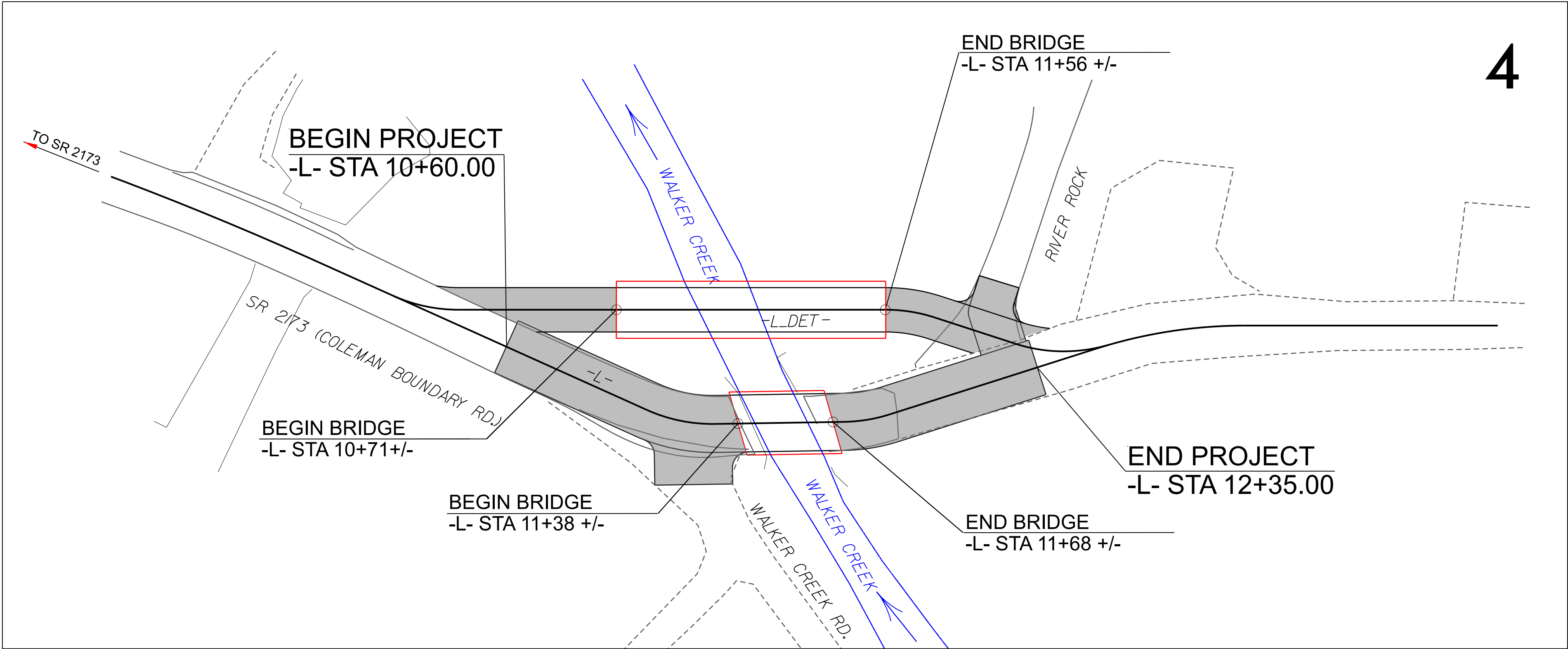
LOCATION: *REPLACE BRIDGE NO. 100149 ON
SR 2173 (COLEMAN BOUNDARY ROAD)
OVER WALKER CREEK*

TYPE OF WORK: *GRADING, DRAINAGE, PAVING, STRUCTURE*
SEPTEMBER 2026

WETLAND AND SURFACE WATER IMPACTS PERMIT

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	100149	11	
STATE PROJ. NO.		F. A. PROJ. NO.	DESCRIPTION
DF18313.2011361.PR		HELENE	P.E.

PERMIT DRAWING
SHEET 1 OF 6



THERE IS NO CONTROL OF ACCESS ON THIS PROJECT.

THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II MODIFIED.

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES

20 10 0 20 40

PLANS

20 10 0 20 40

PROFILE (HORIZONTAL)

4 2 0 4 8

PROFILE (VERTICAL)

DESIGN DATA

ADT 2025 = 300

ADT = N/A

K = N/A %

D = N/A %

T = N/A % *

V = 15 MPH

* TTST = DUAL

FUNC CLASS = LOCAL

SUB-REGIONAL

PROJECT LENGTH

LENGTH OF ROADWAY TIP PROJECT 100149 = 0.027 MILES

LENGTH OF STRUCTURE TIP PROJECT 100149 = 0.006 MILE

TOTAL LENGTH OF TIP PROJECT 100149 = 0.033 MILES

PLANS PREPARED BY:

DRMP

ENGINEERS • SURVEYORS • PLANNERS • SCIENTISTS

FOR
NCDOT ALTERNATIVE DELIVERY UNIT

2024 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:

LETTING DATE:

DRMP, INC.
5808 FARINGTON PLACE, SUITE 100
RALEIGH, NORTH CAROLINA 27609
(919) 872-5115
NC LICENSE NO. F-1524

TIMOTHY A. KLOTZ, PE
PROJECT ENGINEER

BRET B. PALIS
PROJECT DESIGN ENGINEER

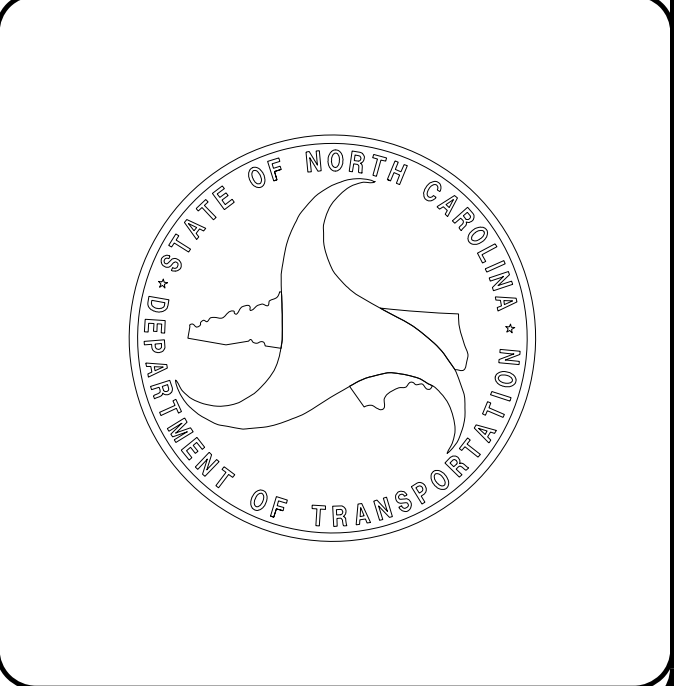
ROB COUSINS, PE
NCDOT PROJECT MANAGER

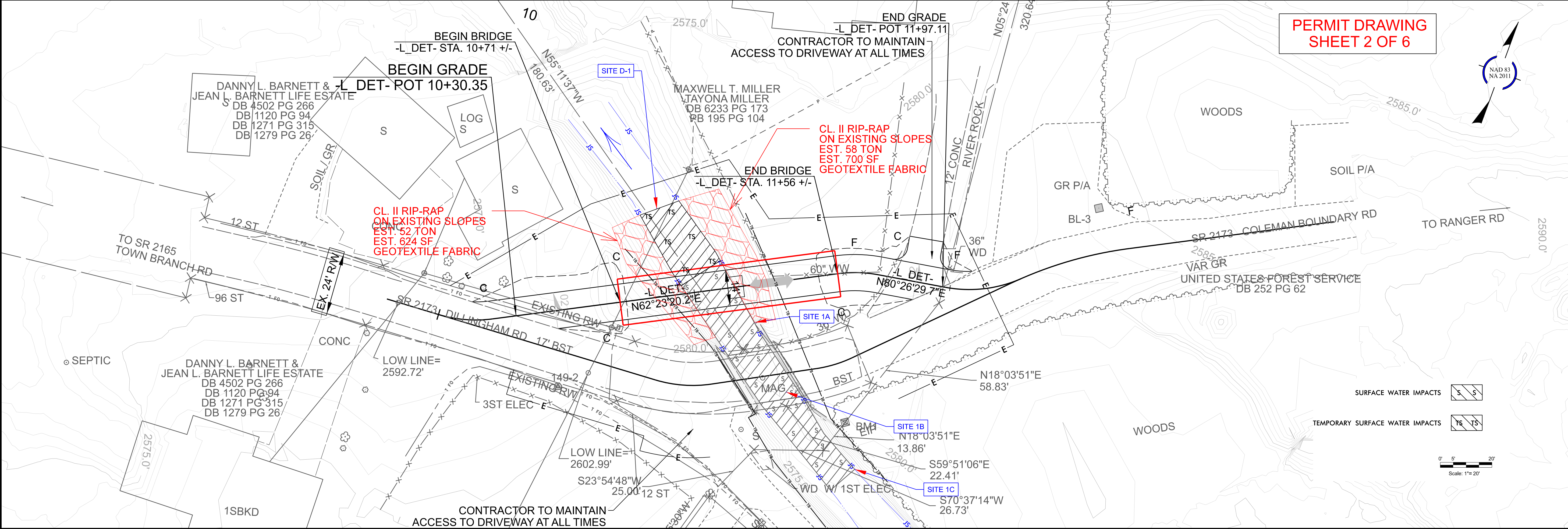
HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

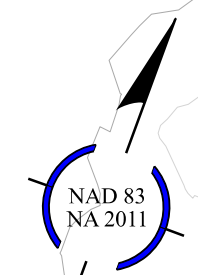
ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.





PERMIT DRAWING
SHEET 2 OF 6



100149

28-1

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
BUNCOMBE COUNTY

ROADWAY DESIGN UNIT
ROADWAY DESIGN
ENGINEER

INCOMPLETE PLANS
DO NOT USE FOR B.Y.V. ACQUISITION

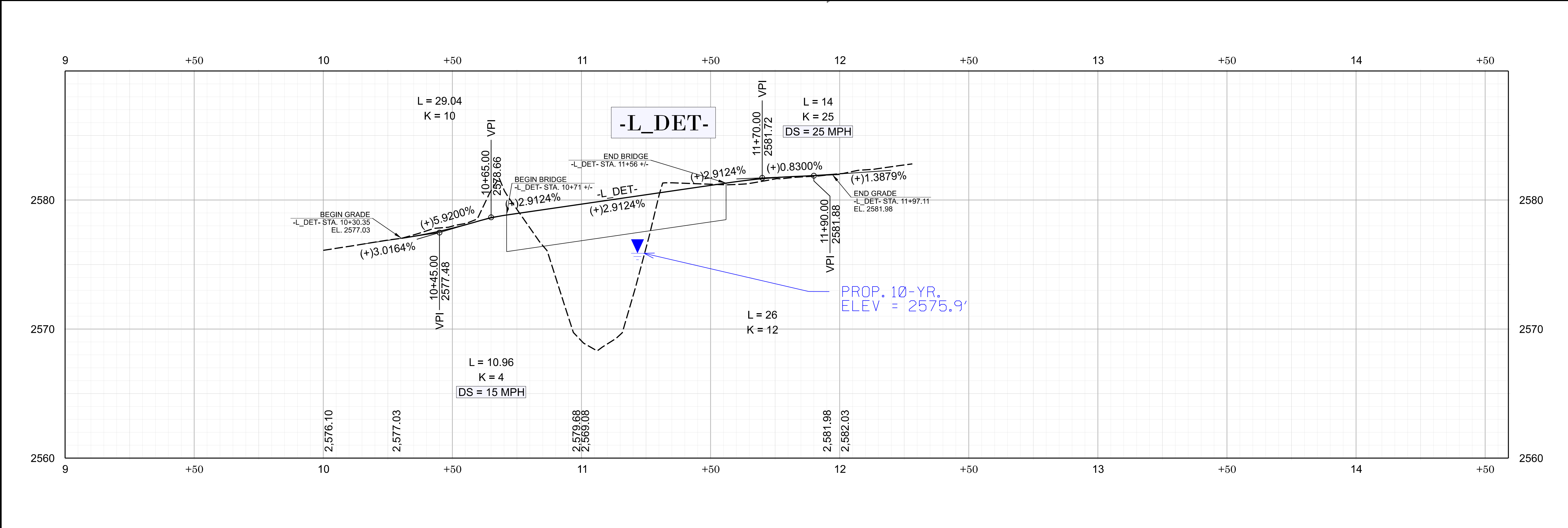
PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

HYDRAULICS
ENGINEER

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

PREPARED BY

DRMP, INC.
5808 FARMINGTON PLACE
RALEIGH, NC 27609
(919) 872-3153 www.drmp.com
NC LICENSE NO. F-1554

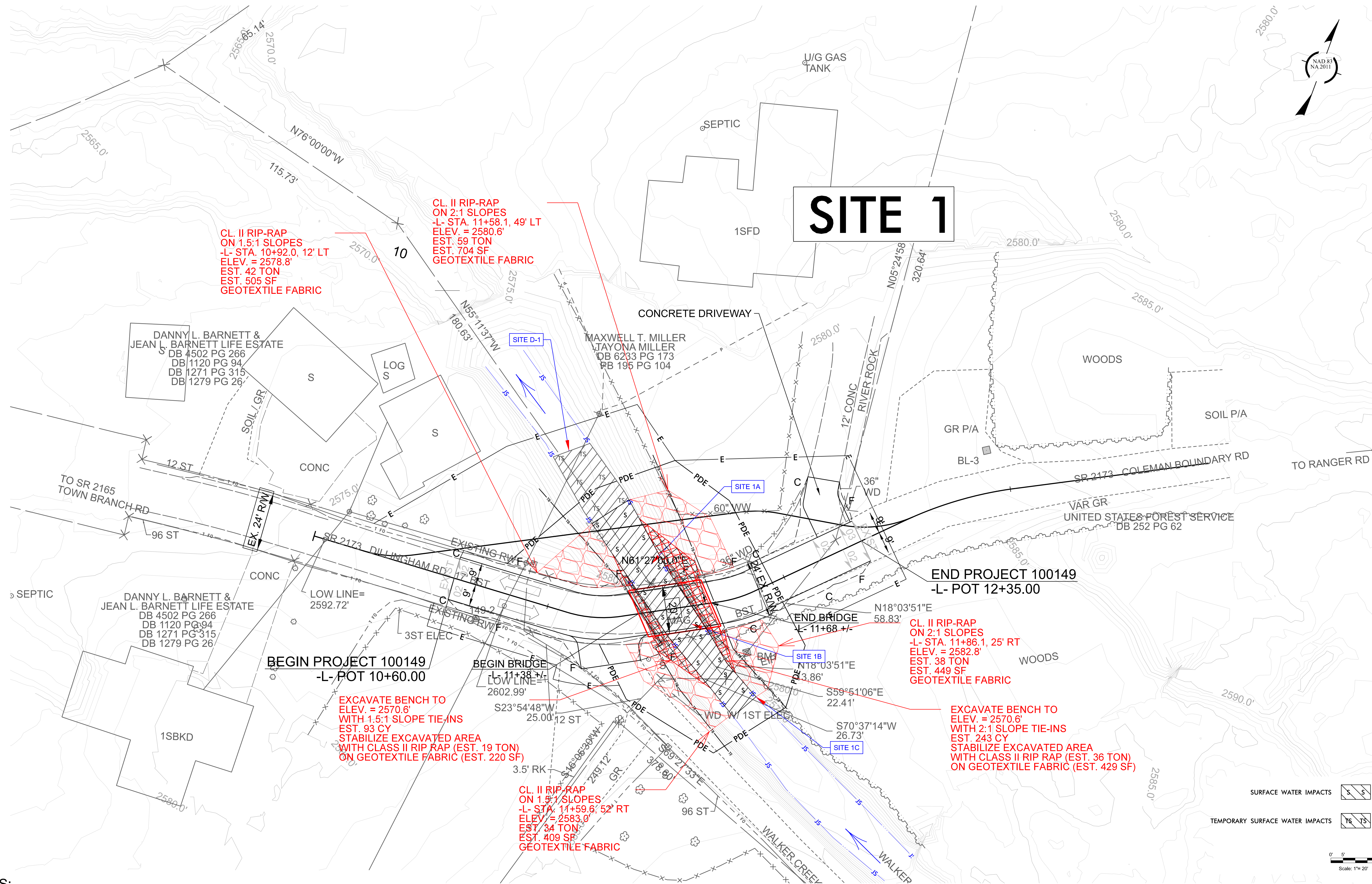


REVISIONS



NOTES:

1. ON-SITE DETOUR TO BE REMOVED ONCE TRAFFIC RELOCATED TO COLEMAN BOUNDARY ROAD (SEE TMP). AREA TO BE REGRADED TO PRE-CONSTRUCTION CONDITIONS AND SEEDED AS NECESSARY.



NOTES:

1. ON-SITE DETOUR TO BE REMOVED ONCE TRAFFIC RELOCATED TO COLEMAN BOUNDARY ROAD (SEE TMP). AREA TO BE REGRADED TO PRE-CONSTRUCTION CONDITIONS AND SEEDED AS NECESSARY.

FOR -L- PROFILE, SEE SHEET 5

9 +50 10 +50 11 +50 12 +50 13 +50 14

2610

2600

2590

2580

2570

2560

2550

2540

9 +50 10 +50 11 +50 12 +50 13 +50 14

FOR -L- PLAN, SEE SHEET 4

PERMIT DRAWING
SHEET 5 OF 6

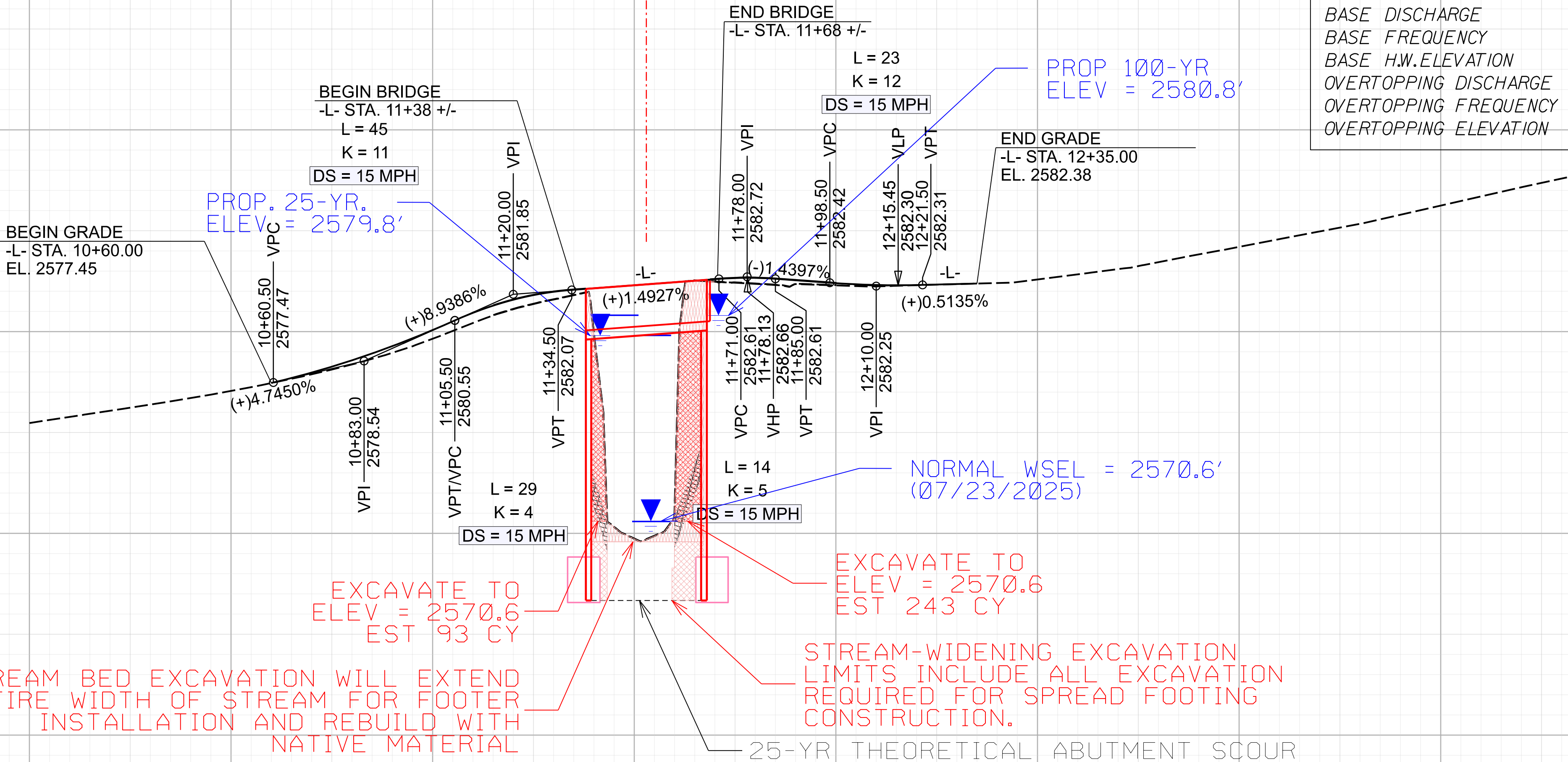
BM-1
N=746840.9081'
-BL- STA 12+52.06
-L- STA 11+77.10
2" PIPE W/ ALUMINUM CAP

ELEV. 2582.3700'
E=2582.3700'
23.13' RT
22.68' RT

BRIDGE HYDRAULIC DATA

DESIGN DISCHARGE	=	870	CFS
DESIGN FREQUENCY	=	25	YRS.
DESIGN H.W.ELEVATION	=	2579.8	FT.
DRAINAGE AREA	=	4.26	SQ.MI.
BASE DISCHARGE	=	1700	CFS
BASE FREQUENCY	=	100	YRS.
BASE H.W.ELEVATION	=	2580.8	FT.
OVERTOPPING DISCHARGE	=	1700	CFS
OVERTOPPING FREQUENCY	=	100	YRS.
OVERTOPPING ELEVATION	=	2580.8	FT.

-L- STATION= 11+53.00
G.P. ELEVATION= 2582.34
SKEW= 65 DEGREES
TIMBER BRIDGE w/ 30ft 14" I-Beams
w/ Concrete Abutments



WETLAND AND SURFACE WATER IMPACTS SUMMARY

Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS					SURFACE WATER IMPACTS				
			Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
1A	-L- 11+31.82 LT/11+46.51 LT	Upstream Bank Stabilization						0.014		36		
1B	-L-11+46.51 LT/11+56.13 RT	Proposed Bridge/Bank Stabilization						0.008		22		
1C	-L- 11+56.13 RT/11+73.55 RT	Downstream Bank Stabilization						0.011		39		
D-1	DET 10+89.75 LT /11+02.50 LT	Bank Stabilization/ Detour Bridge							0.012		30	
TOTALS*:			0.00	0.00	0.00	0.00	0.00	0.03	0.01	97	30	0

*Rounded totals are sum of actual impacts

NOTES:

Temporary detour impacts terminate prior to overlapping the permanent mainline (-L-) impact limits. Mainline impacts adjacent to the detour will be shown together with the temporary detour impacts on Sheet 2B-1.

Permenant impacts are accounted for excavated areas due to bank stabilization being added after excavation is complete.

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

09/04/2026

BUNCOMBE COUNTY

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