Project Submittal Interim Form



Updated December 4, 2023

Please note: fields man mandatory questions a	rked with a red asterisk * below are required. You will not be able to submit the form until all are answered.
Project Type:*	For the Record Only (Courtesy Copy) New Project Modification/New Project with Existing ID More Information Response Other Agency Comments Pre-Application Submittal Re-Issuance\Renewal Request Stream or Buffer Appeal
Is this supplemental	information that needs to be sent to the Corps?*
○ Yes	
Project Contact	Information
Name:	William A. Barrett Who is submitting the information?
Email Address: *	wabarrett@ncdot.gov
Project Informat	ion
Existing ID #: *	Existing Version: *
20250885 20170001 (no dashes)	1 1
Project Name: *	BR-0060
Is this a public transp	portation project?*
YesNo	
Is this a DOT project?	? *
YesNo	
Is the project located	within a NC DCM Area of Environmental Concern (AEC)?*
○ Yes ◎ No ○ Unk	nown
Aquatic Weed Fund,	olve maintenance dredging funded by the Shallow Draft Navigation Channel Dredging and electric generation projects located at an existing or former electric generating facility, or on or transmission of energy or fuel, including natural gas, diesel, petroleum, or electricity?
Yes No	

Is this project connected with ARPA funding? * ○ Yes ○ No TIP#: WBS#: BR-0060 67060.1.1 (Applies to DOT projects only)

County (ies) *

Alamance

Please upload all files that need to be submited.

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

BR-0060 Response to DWR Comments

12.41MB

Package.pdf

Only pdf or kmz files are accepted.

Describe the attachments or add comments:

Attached to this submittal is the BR-0060 Response to DWR Comments Package.

- * By checking the box and signing box below, I certify that:
 - I, the project proponent, hereby certifies that all information contained herein is true, accurate, and complete to the best of my knowledge and belief.
 - I, 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 agree that submission of this online 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 online form.

Signature: *

William (A. Barrett

Submittal Date:



STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

JOSH STEIN

GOVERNOR

J.R. "JOEY" HOPKINS

SECRETARY

August 20, 2025

North Carolina DEQ 1617 Mail Service Center Raleigh, NC 27699-1617

ATTN: Ms. Faith Hardin, Supervisor

Subject: Additional Information Response for the 401 Certification and Buffer

Authorization for the replacement of Bridge No. 14 located on NC 87 over

Cane Creek, Alamance County

DWR# 20250885

Reference: On hold letter dated August 1, 2025 (DWR# 20250885)

Pursuant to your request for additional information dated August 1, 2025, please find enclosed responses:

NCDWR Comment 1:

Confirm Sheet 5 of the Permit drawings. At the end of the Project and east of NC 87, there is an off-site pond which appears to drain into the Project area. Please provide supporting information and data forms collected in this area.

NCDOT Response:

During the site visit by our consultants, there was no drainage from the off-site pond to the study area identified. Therefore, no forms were completed. Also, Location & Survey did not pick up a drainage feature from the off-site pond to the study area. It appears that any drainage from the off-site pond flows to the roadside ditch (see attached photo of the drainage area. The <u>link below</u> directs to this particular area, between the off-site pond and drainage roadside ditch on Google Maps).

It appears that the feature identified in the CE Document Figure as Stream SC (labeled on the attached Figure as Ditch DA) may be a relic drainage feature from the off-site pond to Cane Creek. However, it is no longer an active conveyance from the off-site pond (see Stream ID Form for Ditch DA; score = 10.5). See Response to DWR Comment 4 for additional information.

https://www.google.com/maps/place/35%C2%B053'04.4%22N+79%C2%B017'45.1%22W/@35.8824 689,-79.2942581,3a,75y,65.07h,86.38t/data=!3m7!1e1!3m5!1sjPW7dPbFtmlg4iwU-

jo8ow!2e0!6shttps:%2F%2Fstreetviewpixels-

pa.googleapis.com%2Fv1%2Fthumbnail%3Fcb_client%3Dmaps_sv.tactile%26w%3D900%26h%3D60 0%26pitch%3D3.618210615127964%26panoid%3DjPW7dPbFtmlq4iwU-

jo8ow%26yaw%3D65.07030307855283!7i16384!8i8192!4m4!3m3!8m2!3d35.8845441!4d-

79.2958526?entry=ttu&g_ep=EgoyMDI1MDcxNi4wlKXMDSoASAFQAw%3D%3D

NCDWR Comment 2:

Based on the Jurisdictional Map, stream SB and SC are located on-site.

NCDOT Response:

The Jurisdictional Map referenced in the NCDWR comment is from the CE Document for BR-0060, dated March 2023. In the Water Resources section of the referenced CE, the *Status of Streams in the Study Area* Table lists Streams SB and SC as Ephemeral; therefore, not jurisdictional streams.

Stream SB was determined to be ephemeral (Stream ID score of 15.5) and therefore was not labeled as a stream on the permit and buffer drawings. However, it was identified as a drainage feature by Locations & Survey, so it is depicted with a non-JS blue line on the permit and buffer drawings. The Stream ID Form for SB is included in the attachment in this submittal.

Please note that in the attachment included with this Response is a Figure (*Potential Jurisdictional Features Map*) that identifies and re-labels Stream SC as **Ditch DA** (Stream SC => Ditch DA), along with a Stream ID Form for Ditch DA (score of 10.5).

There is also a Stream ID Form for "Stream SD" in the attachment, which is not depicted or labeled on the CE Document Figure. However, as noted on the Stream ID Form for Stream SD, the feature is located between Pond PA and Cane Creek, and was determined to be ephemeral (score of 9.5). A label has been applied to the *Potential Jurisdictional Features Map* for this feature, included in the attachment.

For clarity, it would have been prudent for NCDOT to have included this Figure in the CE Document.

NCDWR Comment 3:

Provide a topographic map and soil survey of the revised project area.

NCDOT Response:

A topographic Map and a Soil Survey Map are included in the attachment in this Response submittal.

NCDWR Comment 4:

Please label stream SB and Stream SC throughout the permit and buffer drawings.

NCDOT Response:

The non-JS blue line feature (SB) has been labeled on the permit and buffer drawings.

As described in the Response to DWR Comment 2, Stream SC has been updated to/labelled as Ditch DA (in attachment) and a label has been included on permit and buffer drawings.

Feature SB has been labeled on the permit and buffer drawings for reference. Please note that SB was determined to be ephemeral (Stream ID score of 15.5) and therefore was not labeled as a stream on the permit and buffer drawings but was identified as a drainage feature by Locations & Survey. The Stream ID Form for SB is included in the attachment in this submittal.

Feature SC referred to in this DWR Comment, and labeled as such on the Jurisdictional Determination Map in the CE Document, was determined to be ephemeral (Stream ID score of 10.5). It is depicted on the Figure (*Potential Jurisdictional Features Map*) included in the attachment as **Ditch DA** (SC = Ditch DA). As NCDOT's Location & Survey group did not pick this up as a drainage feature, it was not depicted on the permit and buffer drawings. A label has been placed on the permit and buffer drawings, included as an attachment, in the vicinity of the ditch (DA).

Also, please note that there is a Stream ID Form for "Ditch DA" in the attachment to this Response.

NCDWR Comment 5:

Please provide the Stream ID forms collected for Stream SB and SC.

NCDOT Response:

As noted in responses to prior DWR Comments, Stream ID Forms for SB and SC (=> Ditch DA) are included in the Response attachment.

Also as noted in prior comment responses, there also is a Stream ID Form for Stream SD, which is an ephemeral feature that is located between Pond PA and Cane Creek (see Response to DWR Comment 2). The attachment to DWR Comments includes photographic documentation of ephemeral feature SD.

NCDWR Comment 6:

Stream SC does not appear to be depicted on the permit drawings.

NCDOT Response:

Stream SC was determined to be ephemeral (score = 10.5), and therefore not included in the permit and buffer drawings. As noted in prior responses, Stream SC is re-labeled as Ditch DA (SC => Ditch DA) on the Figure *Potential Jurisdictional Features Map* in the attachment.

By way of this message, NCDOT hereby request the removal of the "on hold" status and the continued processing of the 401 Certification and Buffer Authorization.

If you have any questions or need additional information, please feel free to contact us. Thank you for your assistance with this project.

Sincerely,

William A. Barrett, Environmental Coordinator

Environmental Coordination and Permitting [ECAP]

North Carolina Department of Transportation

WWA. B. W

Enclosures:

Additional Information Response Package for BR-0060 (DWR #20250885)

Cc: Ryan Conchilla - NCDWR ryan.conchilla@deq.nc.gov

Additional Information Response Package for BR-0060 (DWR #20250885)

The following supporting documents are attached:

Permit Drawing Set w/ additional Labels

Buffer Drawing Set w/ additional Labels

Project Mapping, including:

- Vicinity Map
- Topographic Map
- Soils Map
- Potential Jurisdictional Determination Features

Stream ID Forms: SA, SB, SC (= Ditch DA), SD

Photographic Documentation for Ephemeral Channel (SD) connecting Pond PA to Cane Creek

Photographic Documentation of Drainage Area of Off-site Pond

8

BEGIN PROJECT

\Cane

2345

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

ALAMANCE COUNTY

LOCATION: REPLACE BRIDGE 000014 ON NC 87 OVER CANE CREEK

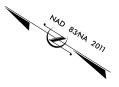
TYPE OF WORK: PAVING, GRADING, GUARDRAIL, DRAINAGE, AND STRUCTURES

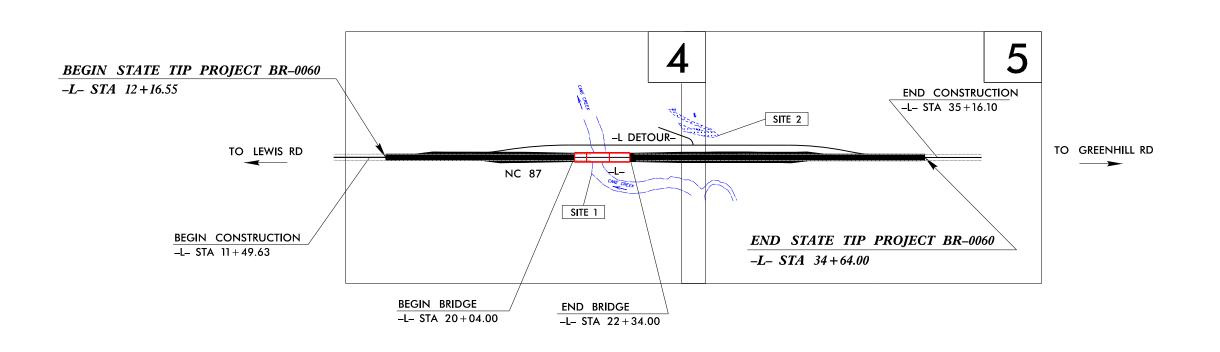
WETLAND AND SURFACE WATER IMPACTS PERMIT

Re-submitted August 2025

STATE	STATE	STATE PROJECT REFERENCE NO.				
N.C.	В	R-0060	1			
STATE	PROJ.NO.	F. A. PROJ. NO.	DESCRIPT	TON		
670	060.1.1	N/A	PE			
670	060.2.1	N/A	ROW/L	JTIL		
			 			
			 			
			 			
						

PERMIT DRAWING SHEET 1 OF 12



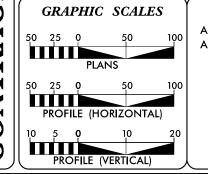


THERE IS NO CONTROL OF ACCESS ON THIS PROJECT. CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II

PROJECT

(87)

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



DESIGN DATA

See Sheet 1B For Conventional Symbols

VICINITY MAP

ADT 2023 = 3,000ADT 2043 = 3,300

K = 10 %D = 60 %T = 7 % *V = 60 MPH* TTST = 3% DUAL 4% FUNC CLASS = MINOR ARTERIAL-**REGIONAL TIER**

PROJECT LENGTH

= 0.382 LENGTH ROADWAY TIP PROJECT BR-0060 LENGTH STRUCTURE TIP PROJECT BR-0060 = 0.044TOTAL LENGTH TIP PROJECT BR-0060 = 0.426

2018 STANDARD SPECIFICATIONS RIGHT OF WAY DATE: MARCH 27, 2023 LETTING DATE: **SEPTEMBER 16, 2025**

TRENT HUFFMAN, P.E. GRAY MODLIN, P.E.

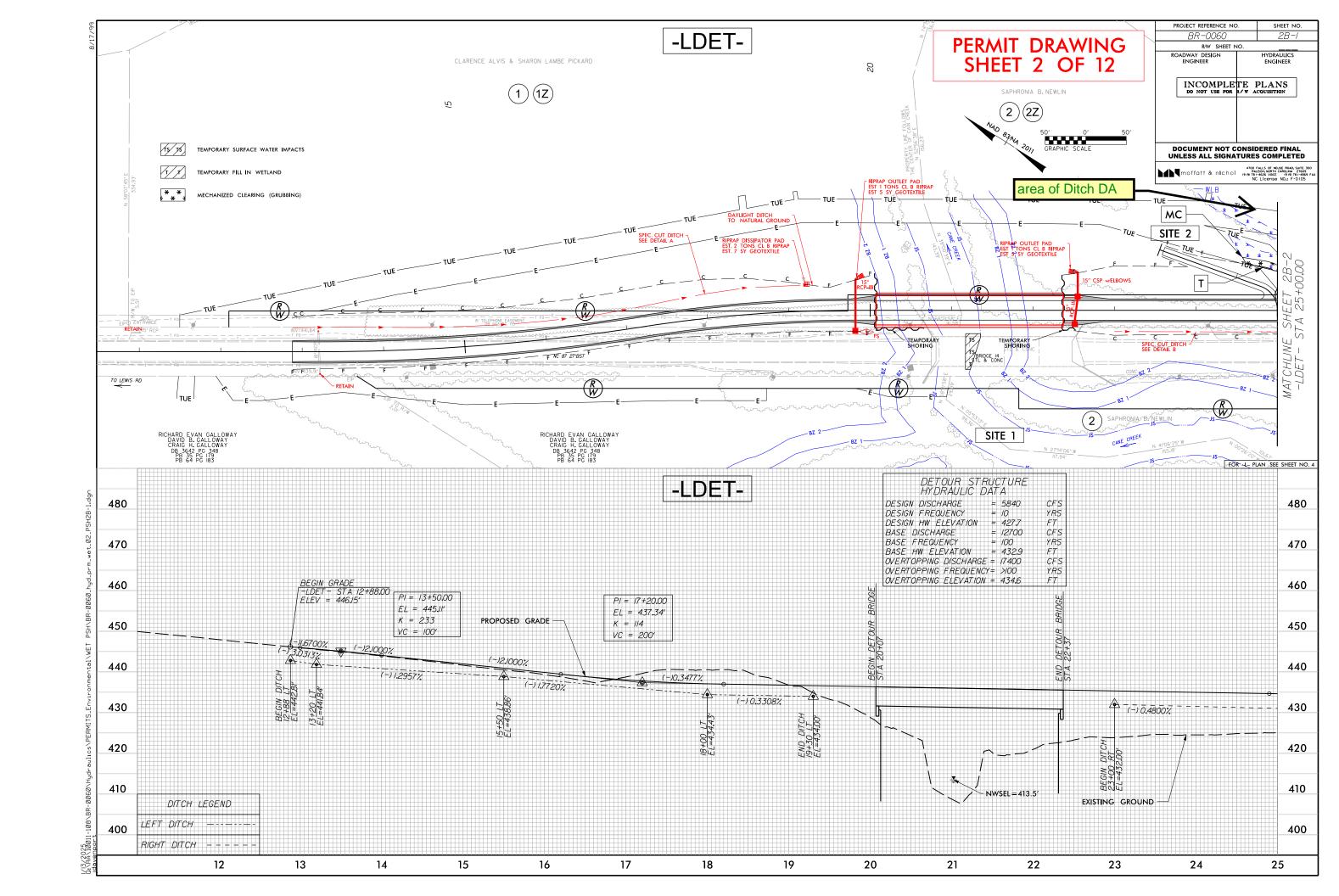
epared for NCDOT in the Office of:

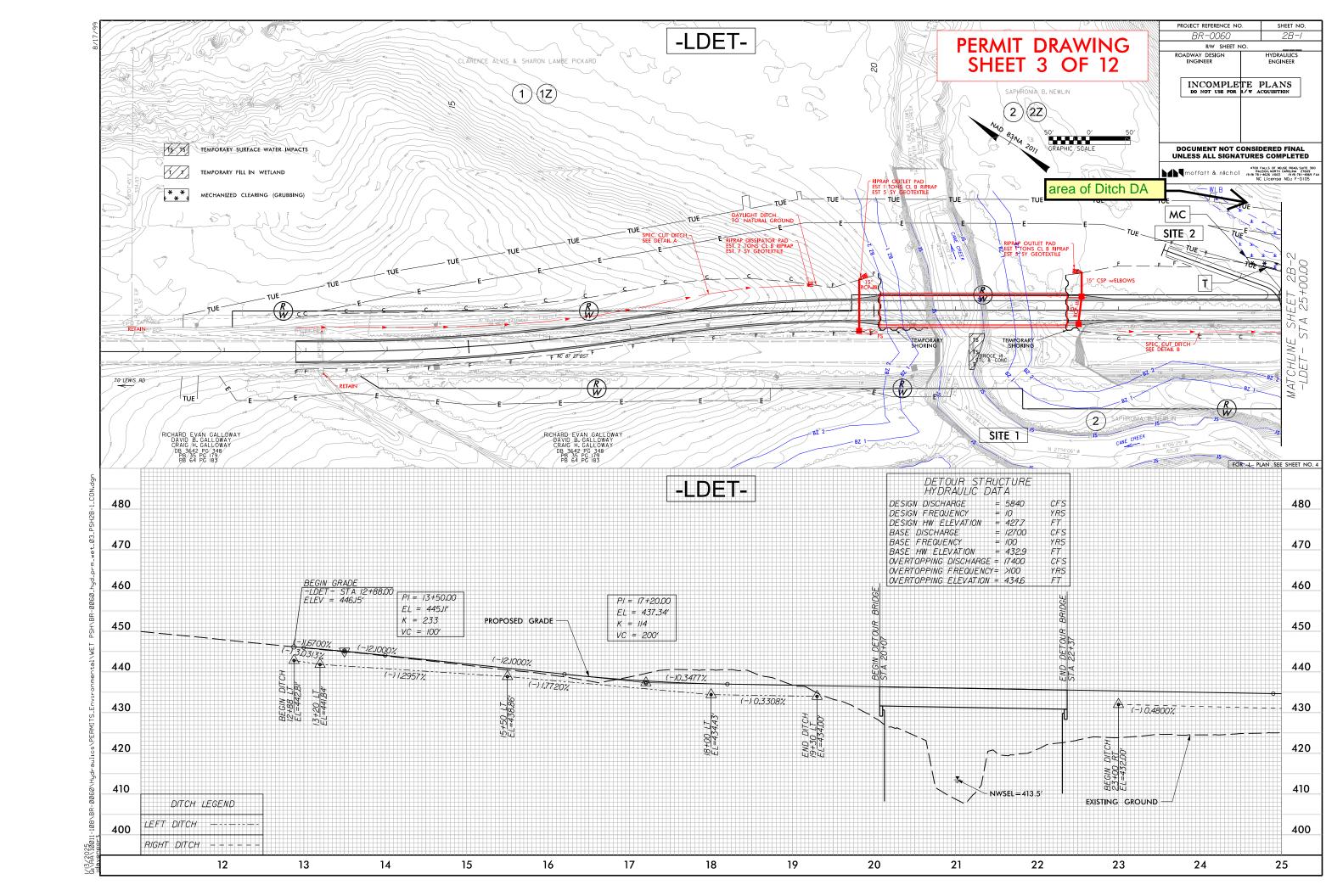
moffatt & nichol

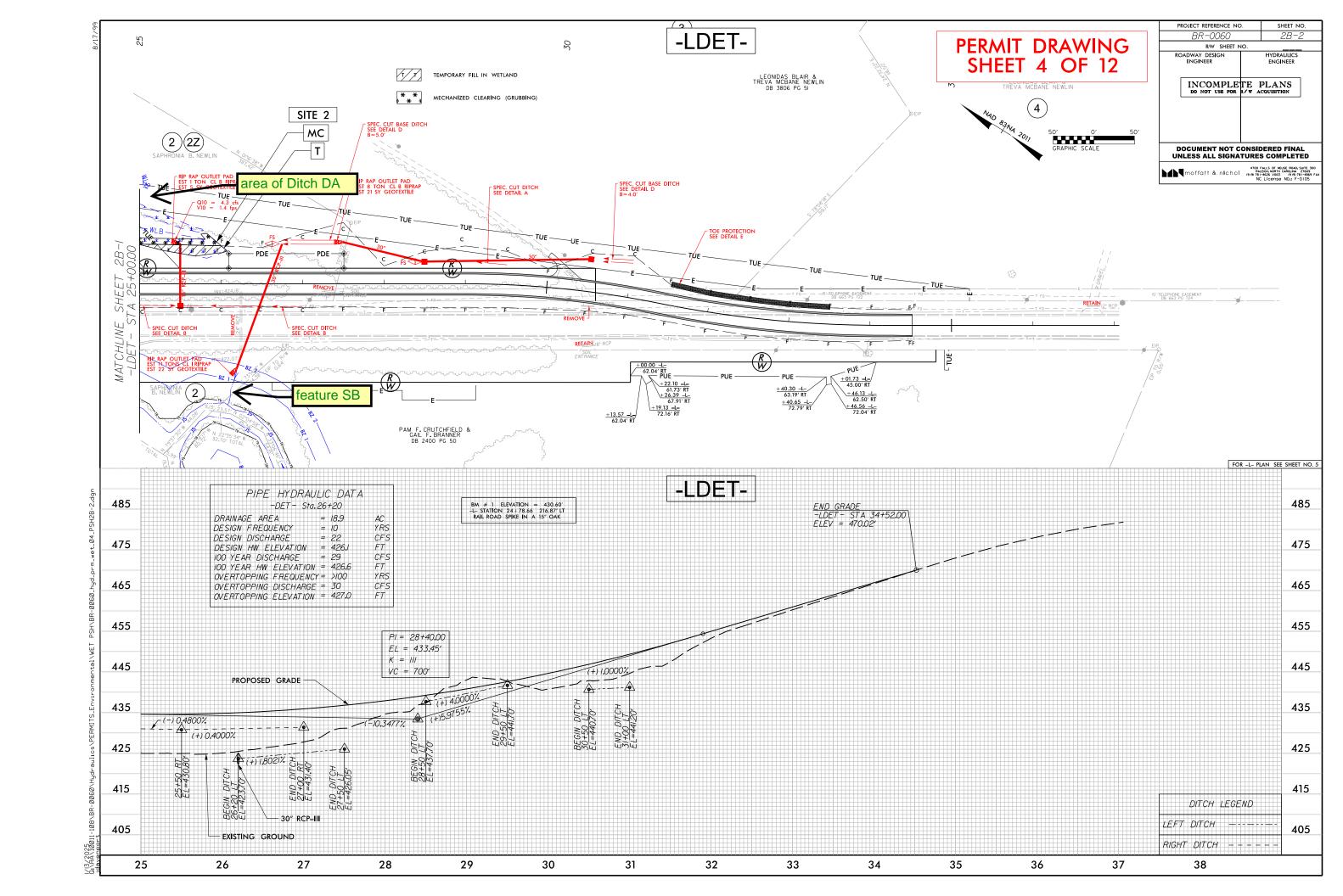
PROJECT DESIGN ENGINEER DAVID STUTTS, P.E.

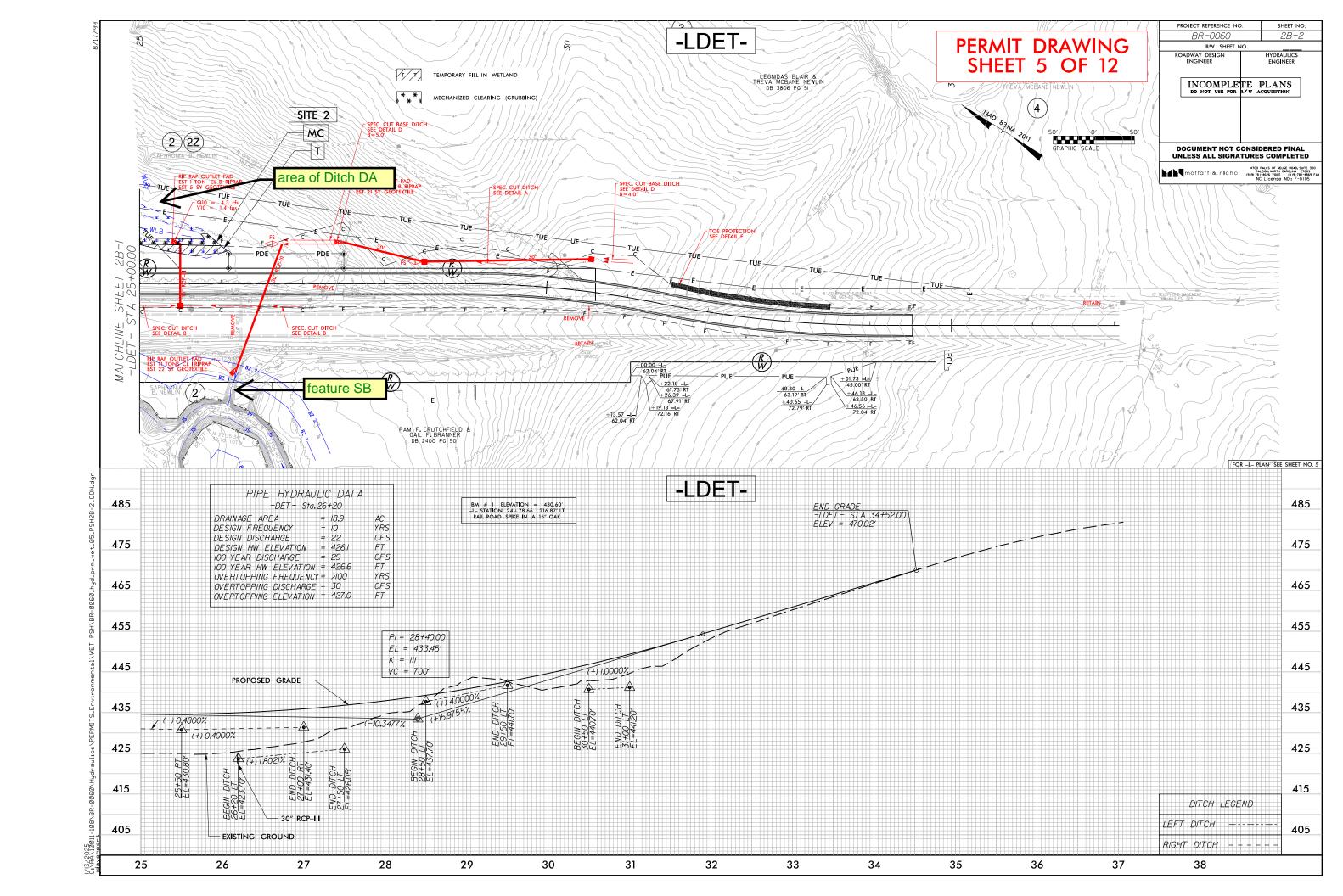
HYDRAULICS ENGINEER SIGNATURE: ROADWAY DESIGN **ENGINEER** moffatt & nichol

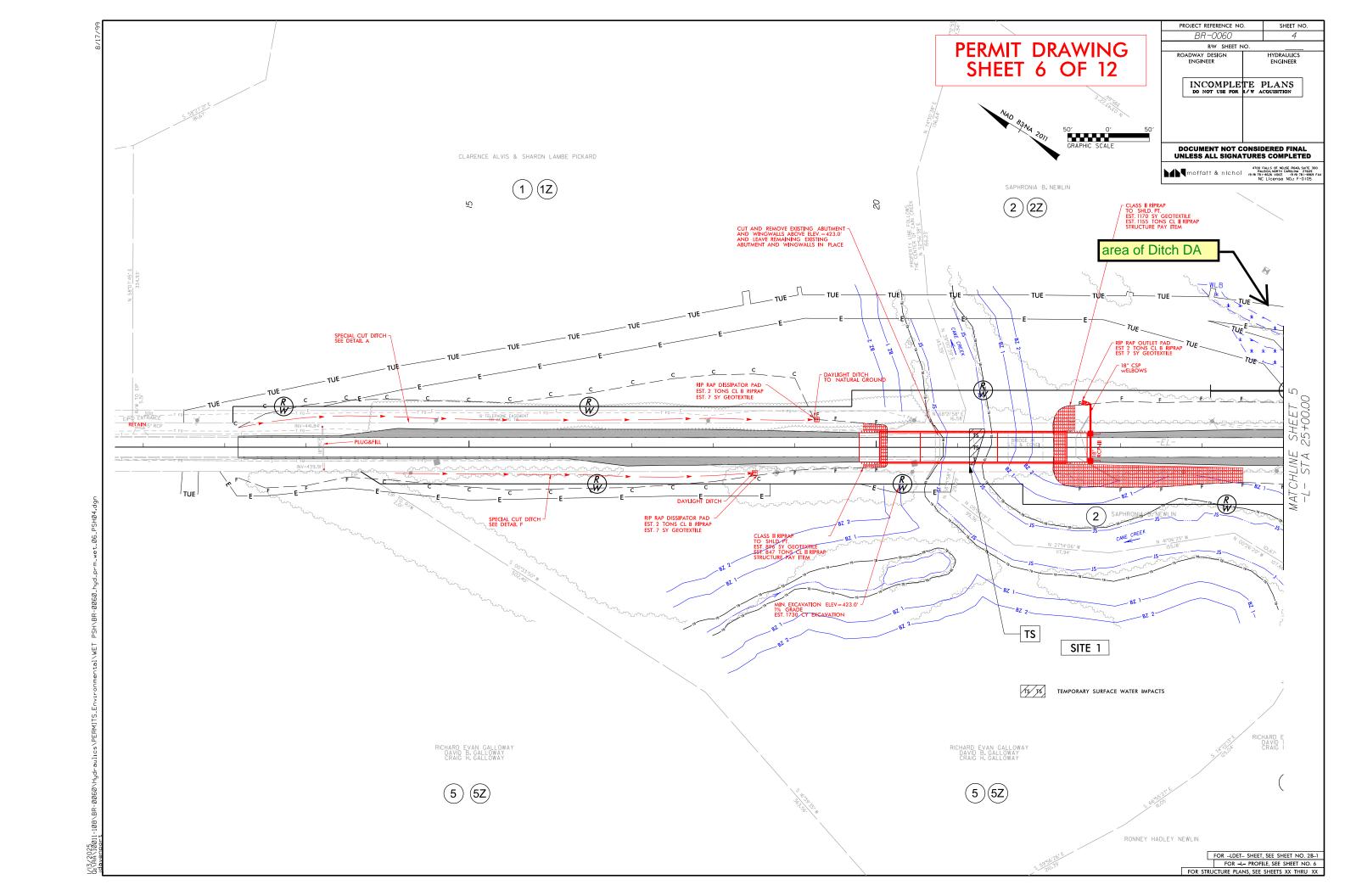


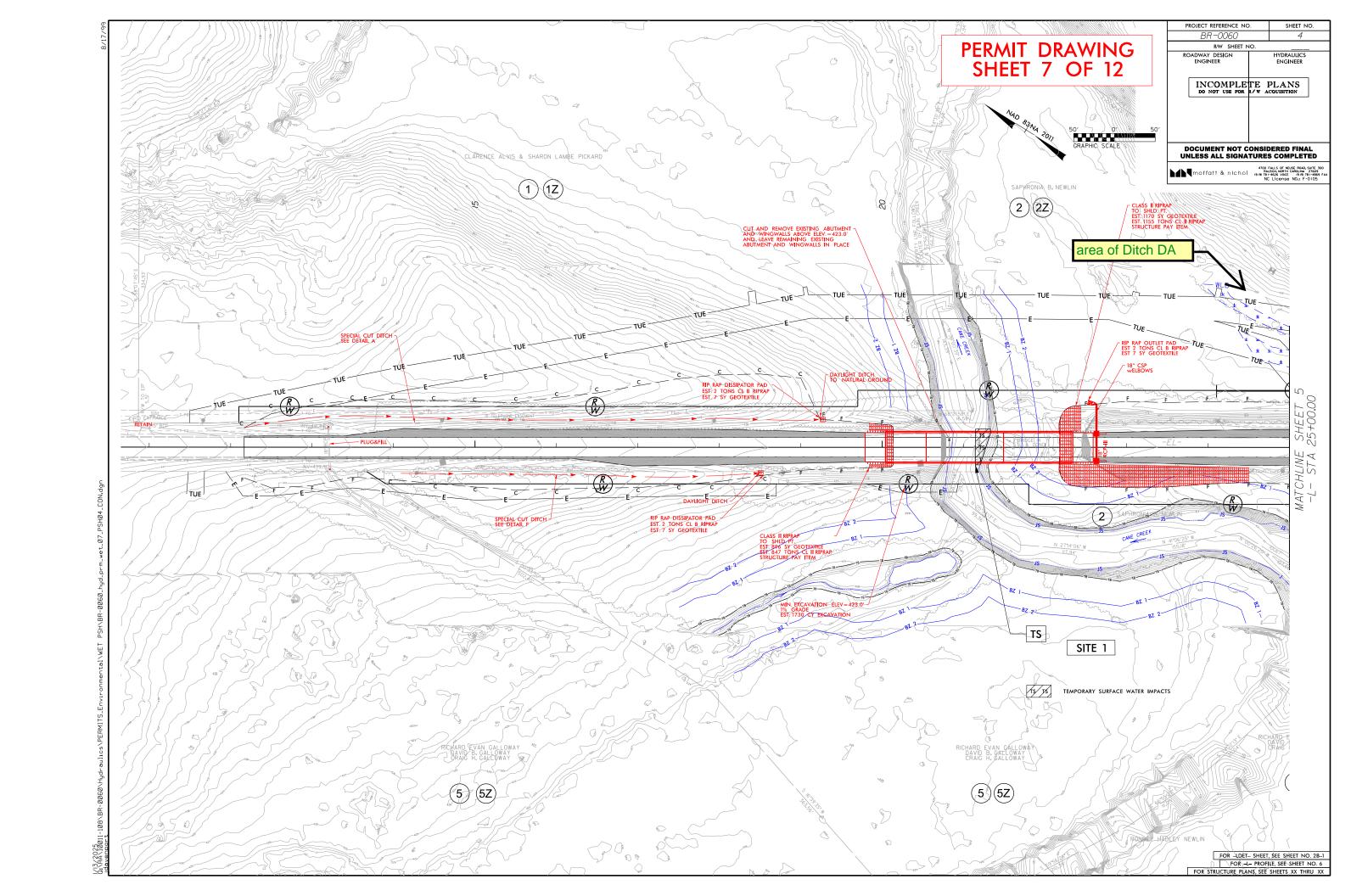


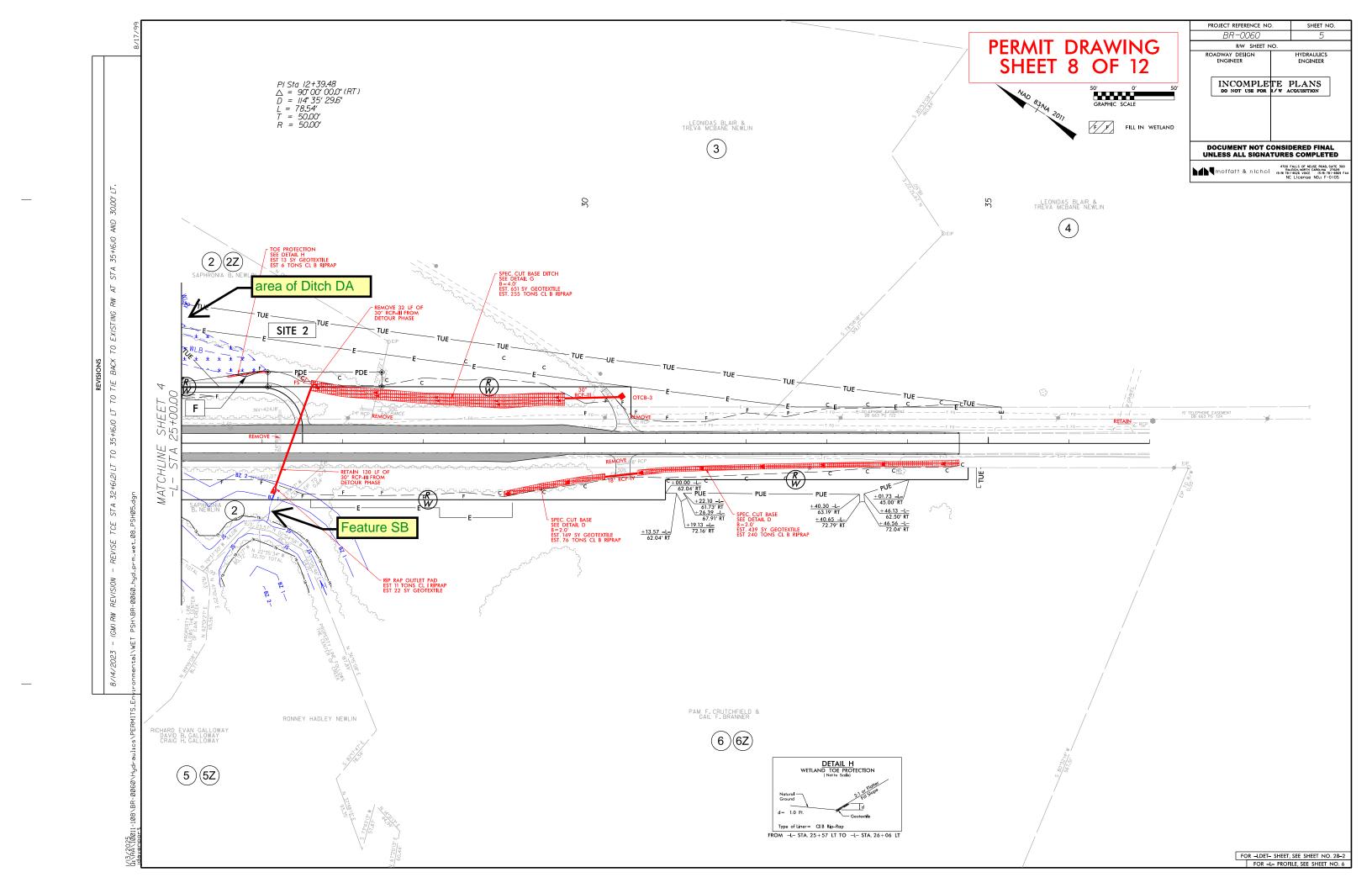


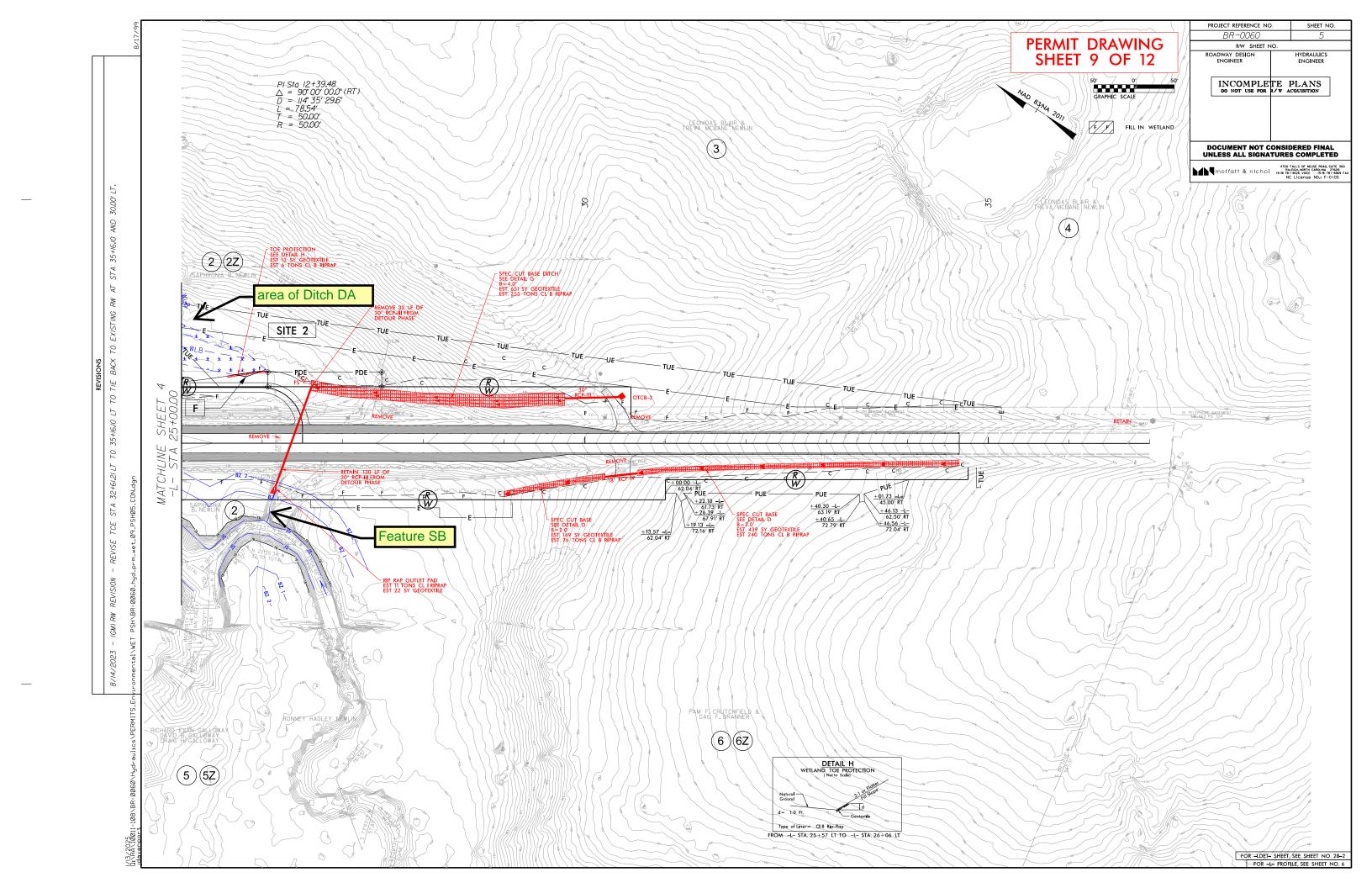


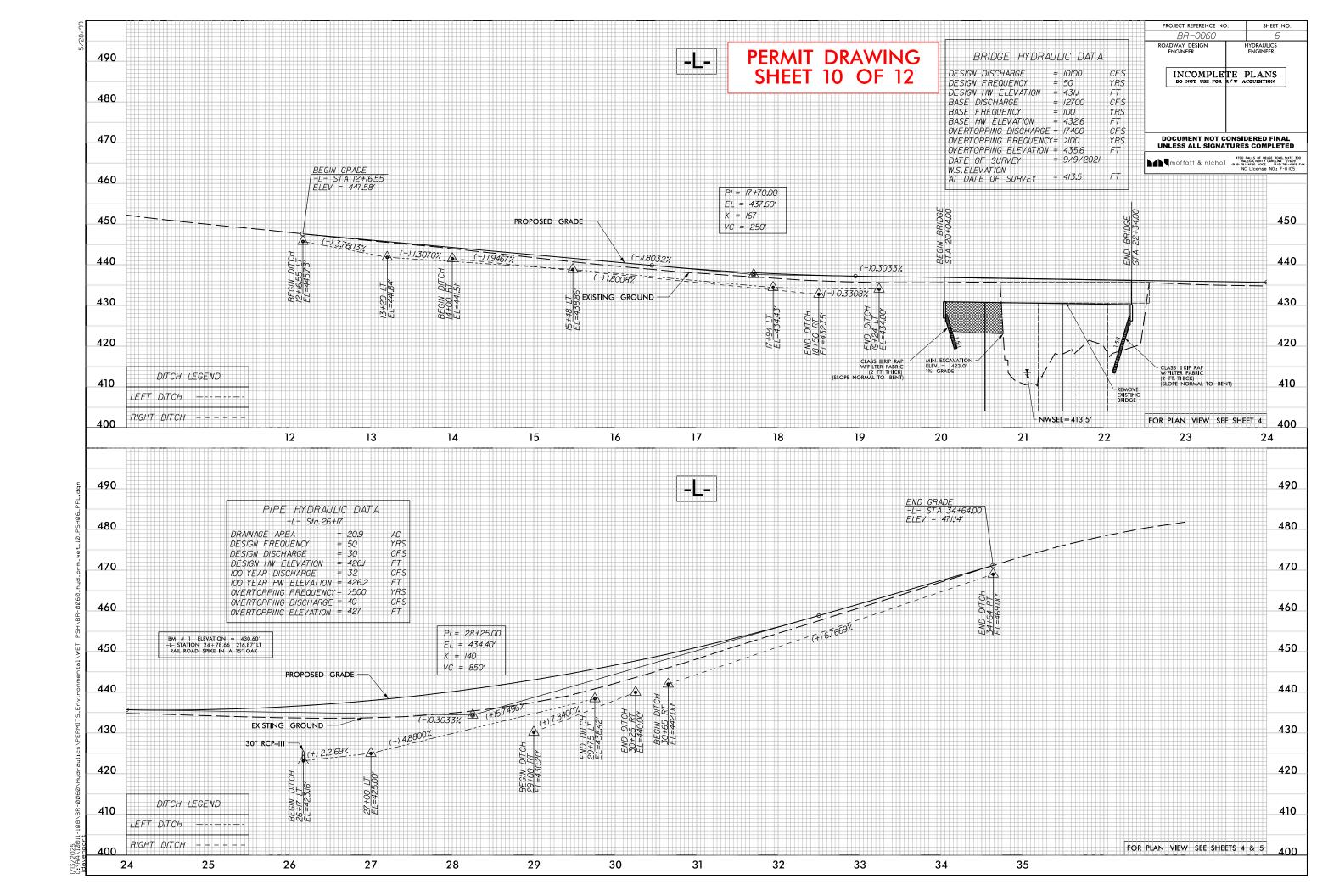


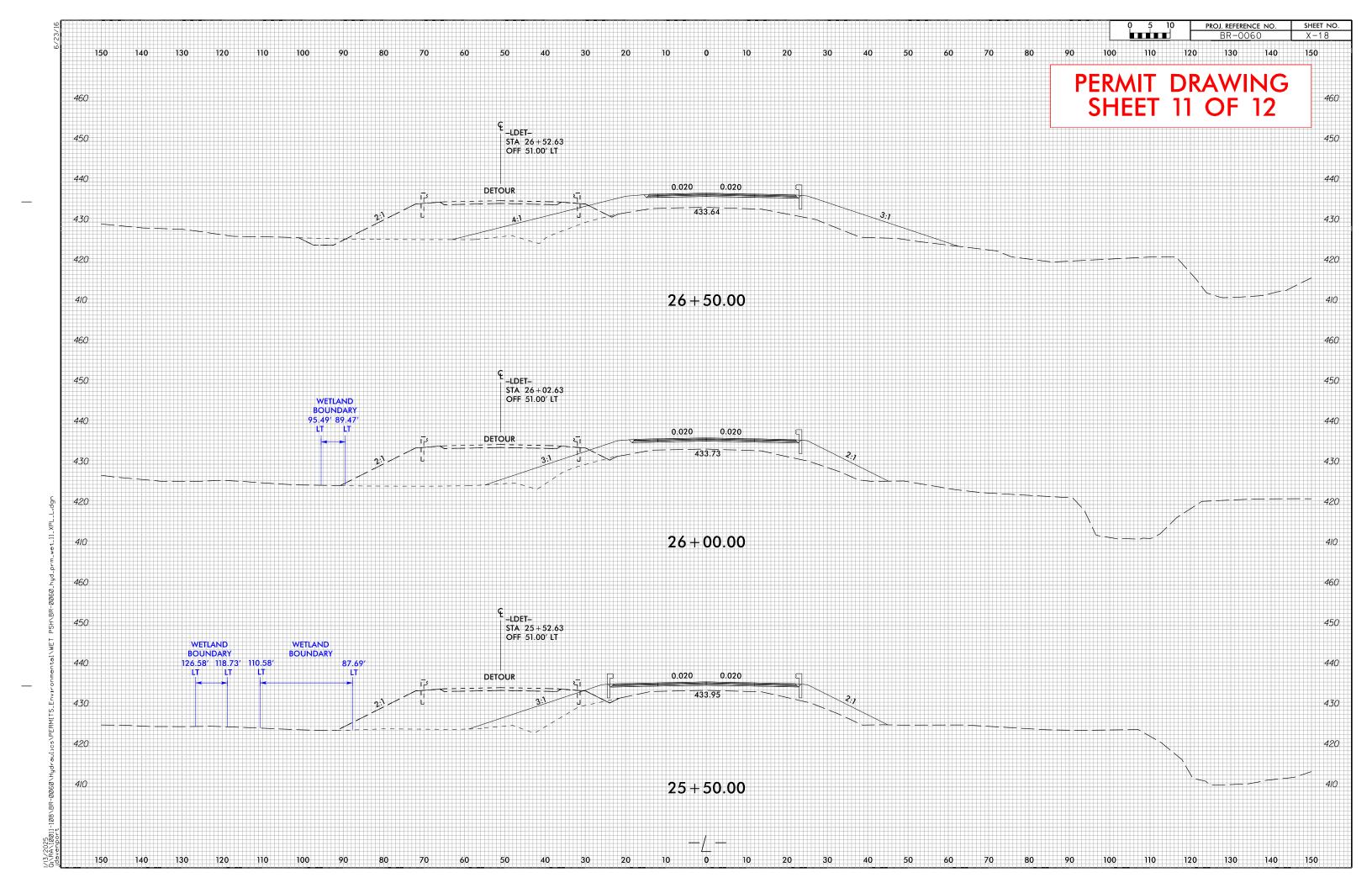












						SURACE WA	ATER IMP					
			WETLAND IMPACTS			SURFACE WATER IMPACTS						
Site	Station	Structure	Permanent Fill In	Temp. Fill In	in	Mechanized Clearing	Hand Clearing in	Permanent SW	Temp.	Existing Channel Impacts	Existing Channel Impacts	Natural Stream
No.	(From/To)	Size / Type	Wetlands (ac)	Wetlands (ac)	Wetlands (ac)	in Wetlands (ac)	Wetlands (ac)	impacts (ac)	impacts (ac)	Permanent (ft)	Temp. (ft)	Design (ft)
1	-L- 21+14 LT TO 21+34 LT	BRIDGE-EXISTING PIER REMOVAL							0.01		44	
2	-L- 24+57 LT TO 26+07 LT	FILL SLOPE-DETOUR & PROPOSED	< 0.01	0.02		0.03						
TOTAL	S*·		< 0.01	0.02		0.03			0.01	0	44	0

*Rounded totals are sum of actual impacts

NOTES:

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
1/13/2025
ALAMANCE

ALAMANCE BR-0060

67060.1.1

SHEET

12

OF

12

See Sheet 1B For Conventional Symbols

BEGIN PROJECT \Cane PROJECT 2345 **(87**) VICINITY MAP

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

ALAMANCE COUNTY

LOCATION: REPLACE BRIDGE 000014 ON NC 87 OVER CANE CREEK

TYPE OF WORK: PAVING, GRADING, GUARDRAIL, DRAINAGE, AND STRUCTURES

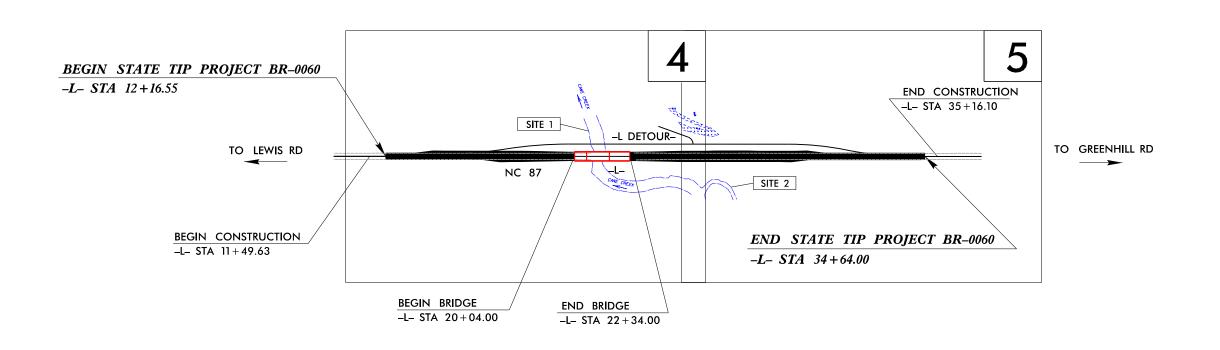
BUFFER IMPACTS PERMIT

Re-submitted August 2025

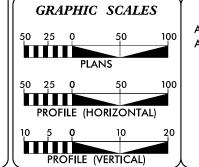
STATE	TE STATE PROJECT REFERENCE NO.			SHEET NO.	TOTAL SHEETS		
N.C.	В	1					
STAT	E PROJ.NO.	F. A. PROJ. NO.		DESCRIPT	ION		
67	060.1.1	N/A		PE			
67	060.2.1	N/A	ROW/UTIL				
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BUFFER DRAWING SHEET 1 OF 5





THERE IS NO CONTROL OF ACCESS ON THIS PROJECT. CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



DESIGN DATA

ADT 2023 = 3,000ADT 2043 = 3,300

K = 10 %D = 60 %

T = 7 % *V = 60 MPH* TTST = 3% DUAL 4% FUNC CLASS =

MINOR ARTERIAL-

REGIONAL TIER

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= 0.382 LENGTH ROADWAY TIP PROJECT BR-0060 LENGTH STRUCTURE TIP PROJECT BR-0060 = 0.044TOTAL LENGTH TIP PROJECT BR-0060 = 0.426

2018 STANDARD SPECIFICATIONS RIGHT OF WAY DATE: MARCH 27, 2023 LETTING DATE:

SEPTEMBER 16, 2025

TRENT HUFFMAN, P.E. GRAY MODLIN, P.E. PROJECT DESIGN ENGINEER

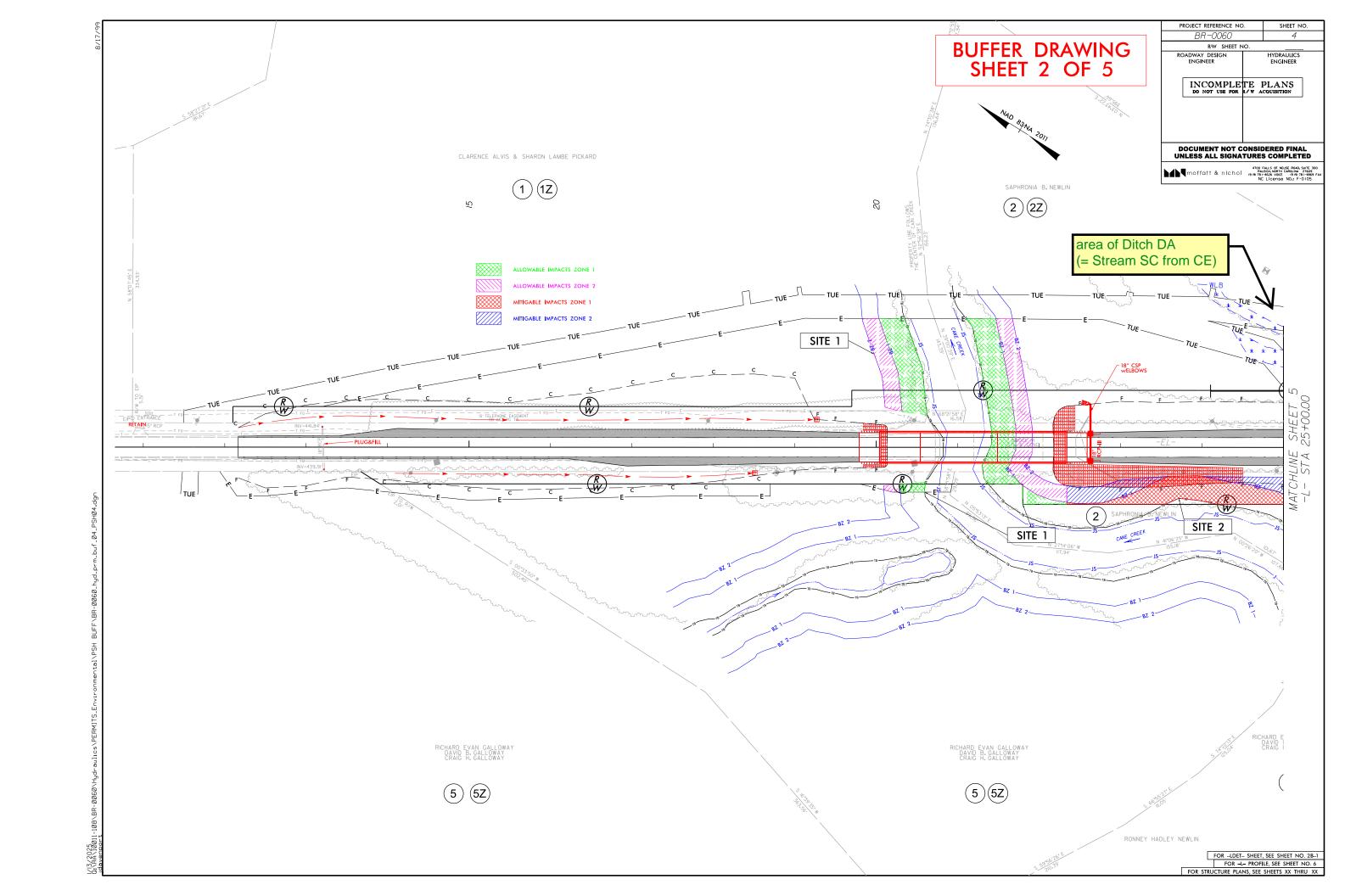
epared for NCDOT in the Office of:

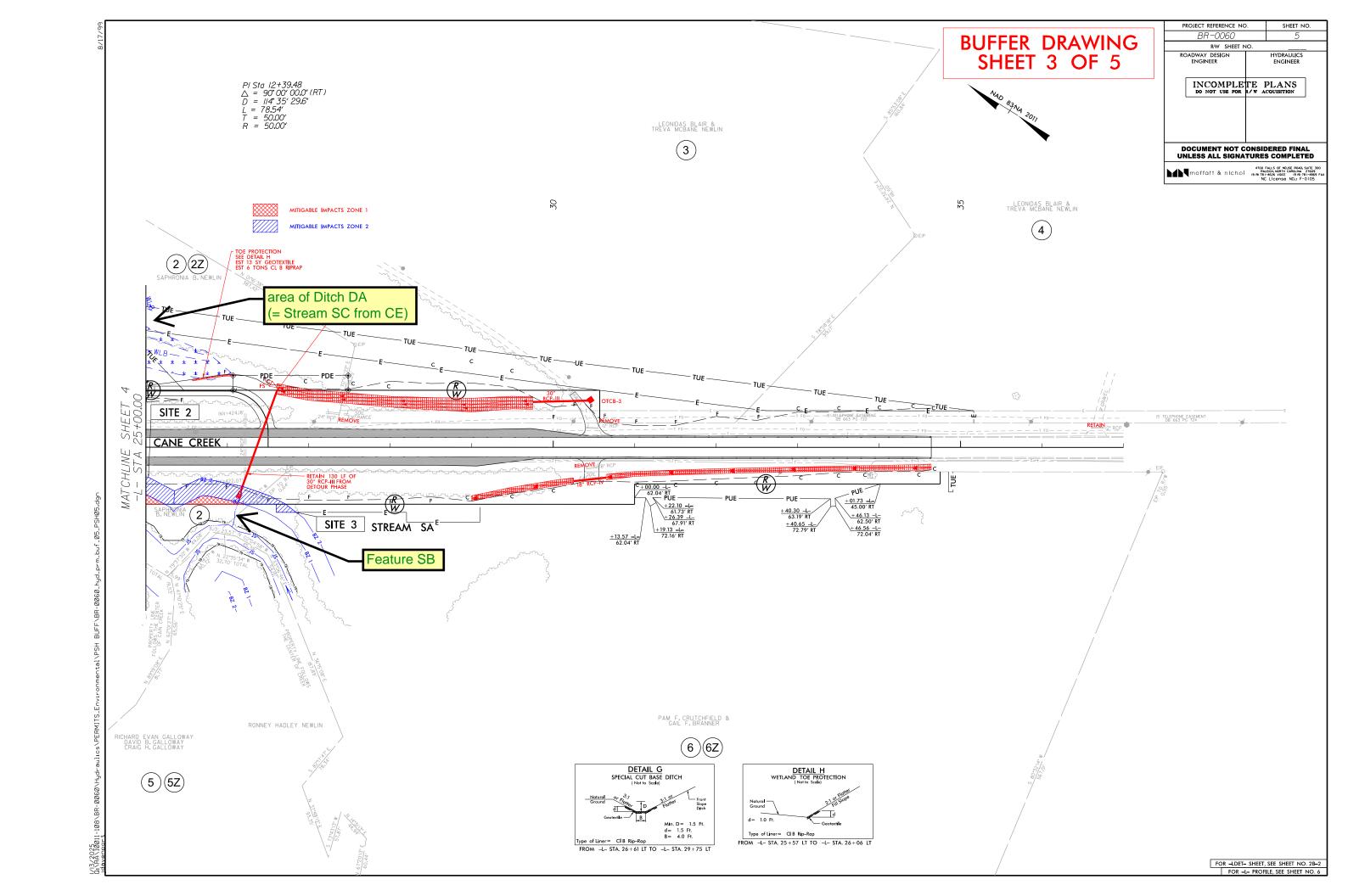
moffatt & nichol

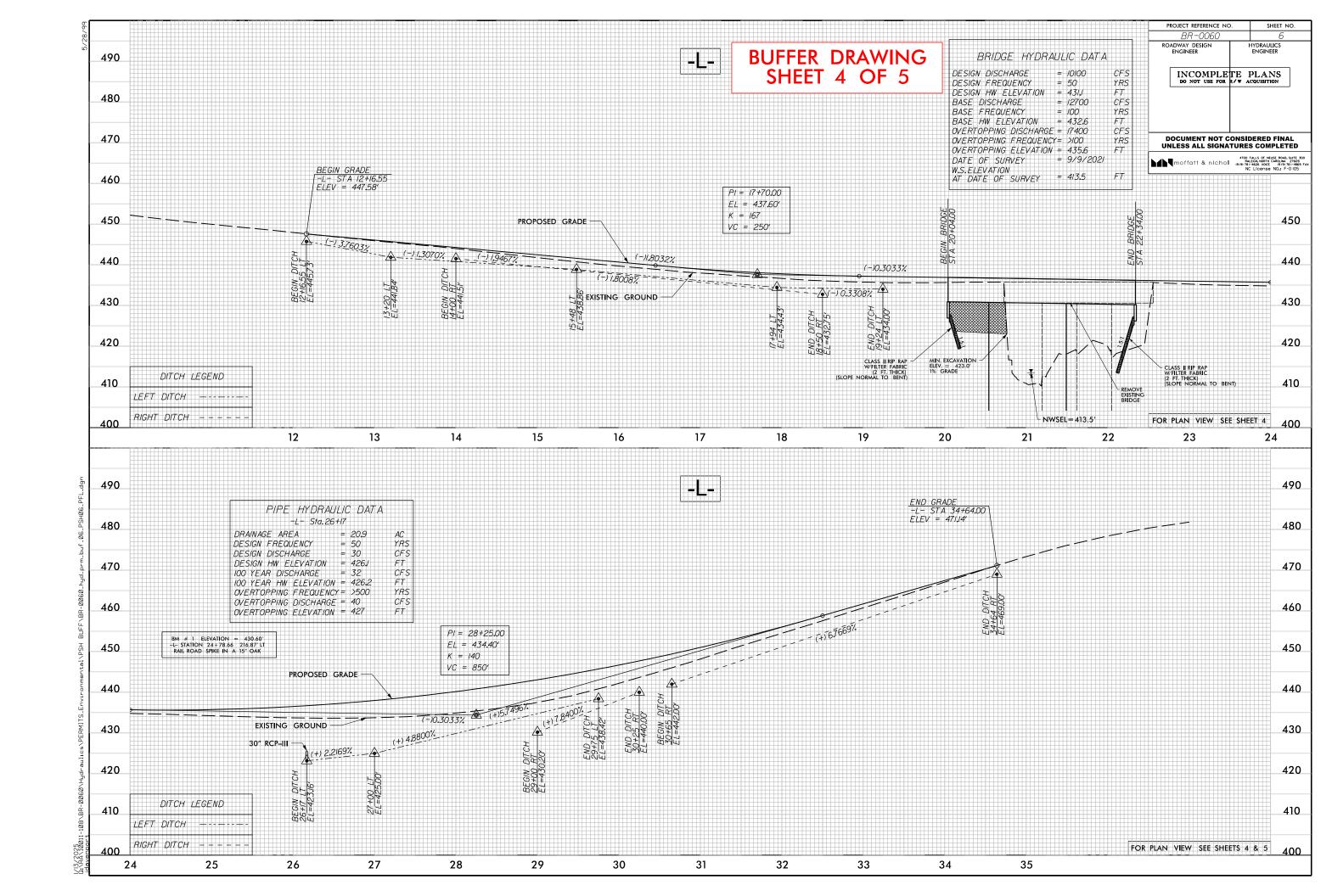
DAVID STUTTS, P.E.

HYDRAULICS ENGINEER SIGNATURE: ROADWAY DESIGN **ENGINEER** moffatt & nichol









		RIF	ARIAN BL	JFFER IN	IPACTS S								
						IMF	ACTS					BUF	FER
				TYPE		А	LLOWABL	.E	l	MITIGABL	E	REPLAC	CEMENT
Site No.	Station (From/To)	Structure Size / Type	ROAD CROSSING	BRIDGE	PARALLEL IMPACT	ZONE 1 (ft ²)	ZONE 2 (ft ²)	TOTAL (ft²)	ZONE 1 (ft²)	ZONE 2 (ft ²)	TOTAL (ft²)	ZONE 1 (ft²)	ZONE 2 (ft ²)
1	-L- 19+78 LT TO 22+34 RT	BRIDGE		Х		10858	7644	18502					
2	-L- 22+34 RT TO 25+34 RT	PARALLEL IMPACT			Х				5202	3640	8842		
3	-L- 25+34 RT TO 26+85 RT	PARALLEL IMPACT			Х				435	2555	2990		
TOTAL	S*:				•	10858	7644	18502	5637	6195	11832	0	0

NOTES:

SITE 1 & 2 - CANE CREEK SITE 3 - STREAM SA

NC DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

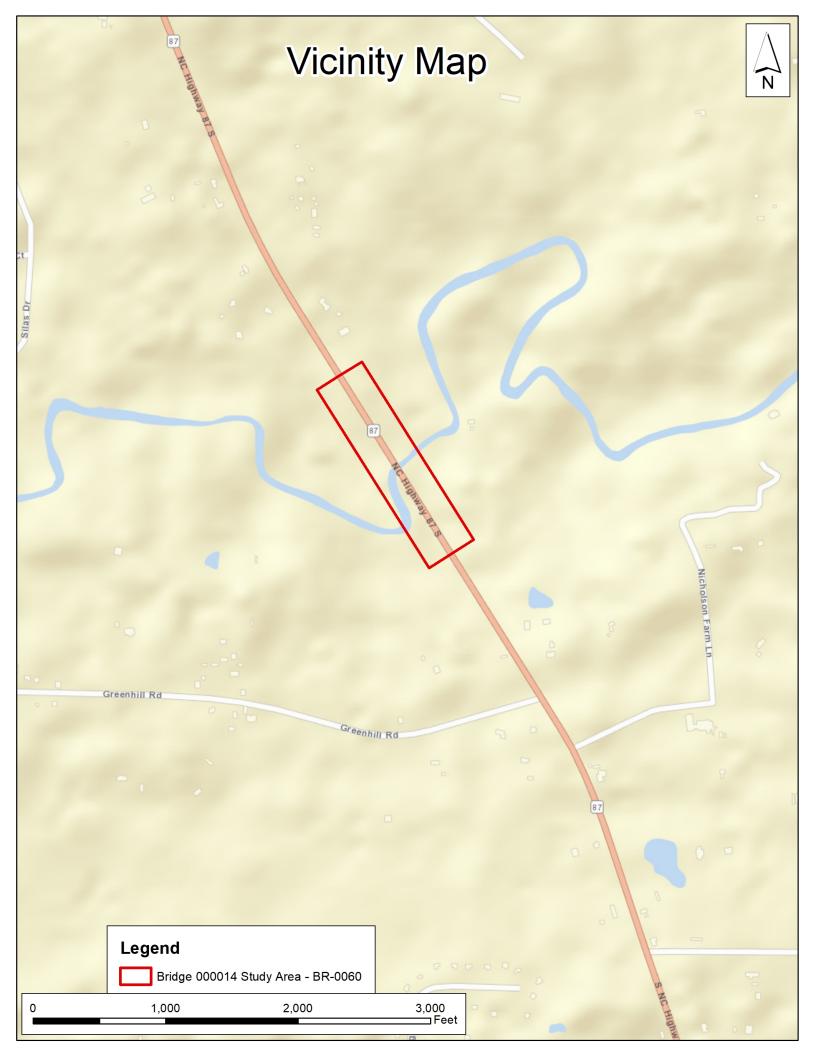
01-13-2025

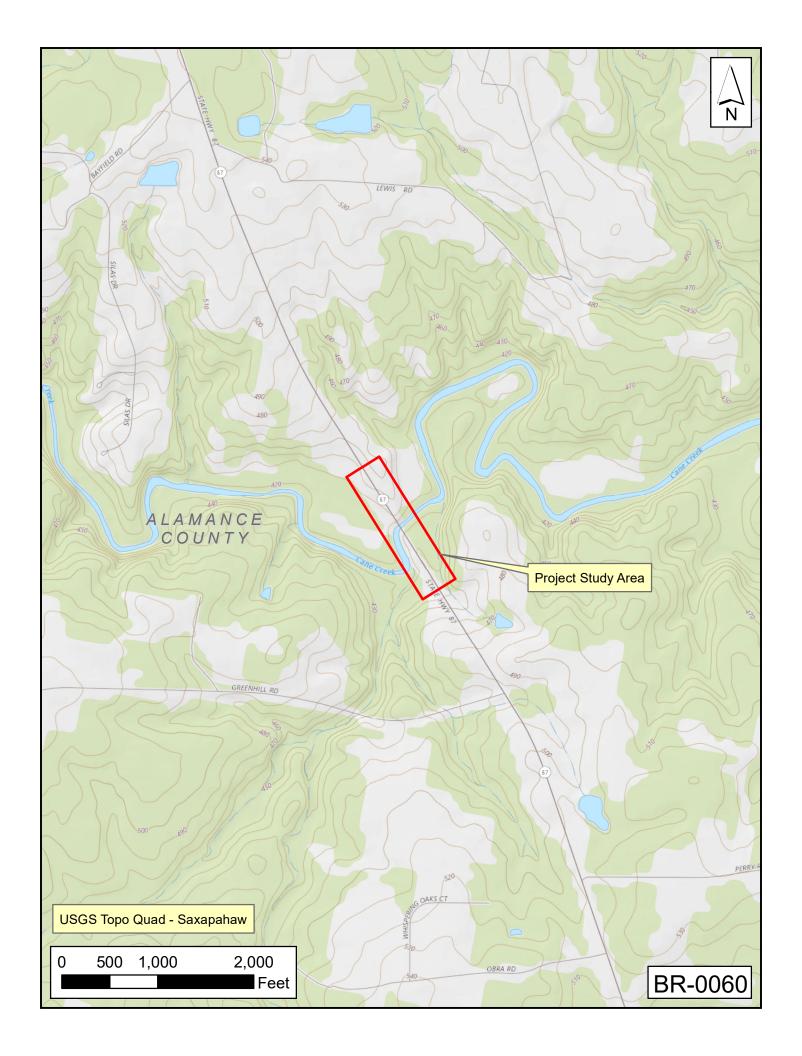
ALAMANCE BR-0060

67060.1.1

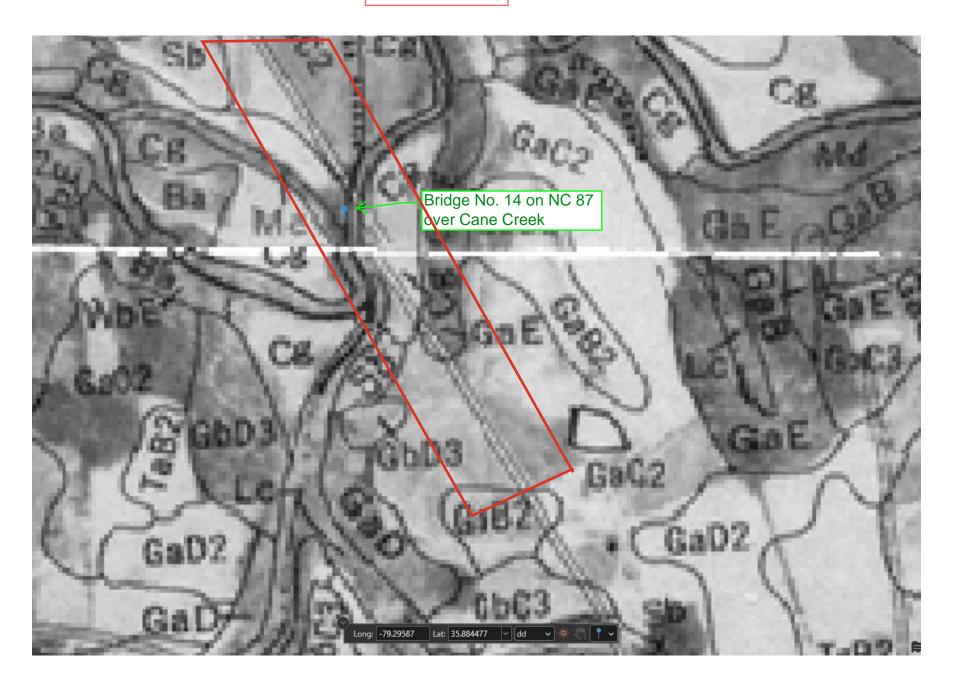
SHEET 5 OF 5

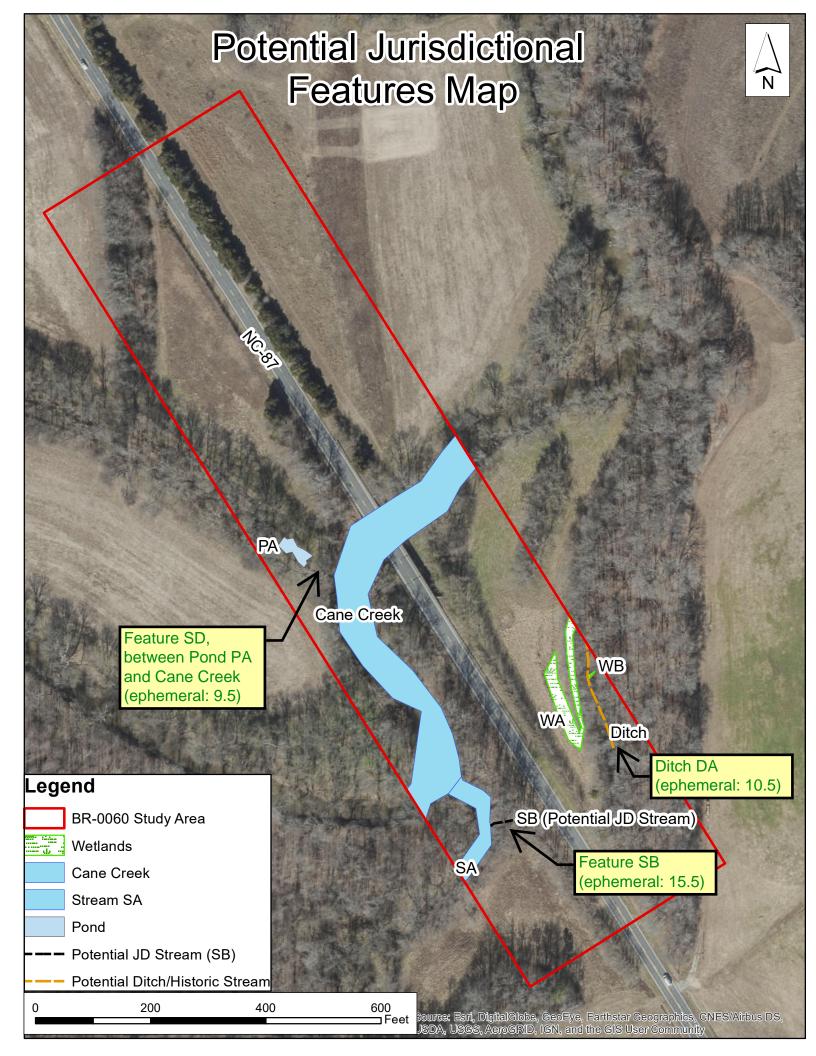
Revised 2018 Feb





BR-0060 Soils Map





NC DWQ Stream Identification For	m Version 4.11				
Date: 4-8-21	Project/Site: 3	1-0060	Latitude: 35. 884525		
Evaluator: Dorney, Dainell	County: Alan	nance	Longitude:	79. 29429	
Total Points: Stream is at least intermittent if ≥ 19 or perennial if ≥ 30*		nation (circle one) rmittent Perennial	Other e.g. Quad Name:		
A. Geomorphology (Subtotal = 24)	Absent	Weak	Moderate	Strong	
1ª Continuity of channel bed and bank	O	1	2	3 auding	

A. Geomorphology (Subtotal = 24)	Absent	Weak	Moderate	Strong
^{a.} Continuity of channel bed and bank	0	1	2	(3)
2. Sinuosity of channel along thalweg	0	1	(2)>	3
 In-channel structure: ex. riffle-pool, step-pool, ripple-pool sequence 	0	1	2	(3)
Particle size of stream substrate	0	1	2	(3)
5. Active/relict floodplain	0	1	2	(3)
Depositional bars or benches	0	1	(2-)	3
7. Recent alluvial deposits	0	1	(2)	3
B. Headcuts	0	1	2	3
9. Grade control	0	0.5	1	1.5
10. Natural valley	0	0.5	1	(1.5)
11. Second or greater order channel	No	= 0	Yes	72
artificial ditches are not rated; see discussions in manual B. Hydrology (Subtotal = 10)			4. 144	
12. Presence of Baseflow	0	1	2	3
13. Iron oxidizing bacteria	0	0	2	3
14. Leaf litter	1.5	(1)	0.5	0
15. Sediment on plants or debris	0	0.5	(i)	1.5
6. Organic debris lines or piles	0	0.5	(1)	1.5
17. Soil-based evidence of high water table?	No	= 0	Yes :	
C. Biology (Subtotal = 12)				
8. Fibrous roots in streambed	3	(2)	1	0
Rooted upland plants in streambed	(3)	2	1	0
20. Macrobenthos (note diversity and abundance)	0	1	(2)	3
21. Aquatic Mollusks	0	10	2	3
22. Fish	0	0.5	(1)	1.5
23. Crayfish	0	0.5	(1)	1.5
24. Amphibians	0	0.5	(T)	1.5
25. Algae	0	0.5	(13)	1.5
26. Wetland plants in streambed		FACW = 0.75;	OBL = 1.5 Other # 6	
	is See n 35 of manual		G.	
*perennial streams may also be identified using other method	io. occ p. oo oi manual.			

4-8-8021 NC DWO Stream Identification Form Version 4.11 Project/Site: 🕥 Latitude: Date: County: Longitude: **Evaluator: Total Points:** Stream Determination (circle one) Other Stream is at least intermittent Ephemeral Intermittent Perennial e.g. Quad Name: if ≥ 19 or perennial if ≥ 30* Weak Moderate Strong A. Geomorphology (Subtotal = Absent 1a Continuity of channel bed and bank 0 1 1 2. Sinuosity of channel along thalweg 0 3. In-channel structure: ex. riffle-pool, step-pool, 1 0 3 ripple-pool sequence 3 4. Particle size of stream substrate 0 1 3 5. Active/relict floodplain 0 1 (30) 0 1 6. Depositional bars or benches (3) 7. Recent alluvial deposits 0 1 2 (O) 2 8. Headcuts 1 9. Grade control 0.5 1.5 (1) 1.5 10. Natural valley 0.5 11. Second or greater order channel No = 0Yes = 3 artificial ditches are not rated; see discussions in manual B. Hydrology (Subtotal = 12. Presence of Baseflow 0 1 2 (0) 2 13. Iron oxidizing bacteria 7) 0.5 14. Leaf litter 1.5 0 1.5) 0.5 15. Sediment on plants or debris 0 1 16. Organic debris lines or piles 0 0.5 1.5 17. Soil-based evidence of high water table? No = 0 C. Biology (Subtotal = 18. Fibrous roots in streambed 19. Rooted upland plants in streambed (3) 0 1 20. Macrobenthos (note diversity and abundance) 0-2 3 21. Aquatic Mollusks 0 3 22. Fish 0 1.5 23. Crayfish 0 1.5 25 24. Amphibians 0 0.5 1.5 25. Algae 0 (0.5) 1.5 26. Wetland plants in streambed FACW = 0.75; OBL = 1.5 Other 0 *perennial streams may also be identified using other methods. See p. 35 of manual. Notes: Sketch: Baby Salader Small ron Ex

34 s

OSSESS F

NC DWQ Stream Identification Form	Version 4.11	0.014				
Date: 4/8/2/	Project/Site:	101 Care	Latitude:	-		
Evaluator: Day Day Nell	County:	M	Longitude:			
Total Points: Stream is at least intermittent if ≥ 19 or perennial if ≥ 30*	Stream Determi Ephemeral Inte	nation (circle one) rmittent Perennial	Other e.g. Quad Name:			
α	Absort	Week	Moderate	Ctrong		
A. Geomorphology (Subtotal = 1	Absent 0	Weak	Moderate 2	Strong 3		
Continuity of channel bed and bank Sinuosity of channel along thalweg	0	0	2	3		
Sinubsity of channel along trialweg In-channel structure: ex. riffle-pool, step-pool,		4				
ripple-pool sequence	0	0	2	· 3		
Particle size of stream substrate	0	(1)	2	3		
5. Active/relict floodplain	(0)	1	2	3		
6. Depositional bars or benches	0	(5)	2	3		
7. Recent alluvial deposits	0	1	2	3		
8. Headcuts	0	1	2	(3)		
9. Grade control	0	0.5	1	1.5		
10. Natural valley	<u></u>	0.5	11	1.5		
11. Second or greater order channel	No	0	Yes	3 = 3		
^a artificial ditches are not rated; see discussions in manual						
B. Hydrology (Subtotal =)						
12. Presence of Baseflow	0	(1)	2	3		
13. Iron oxidizing bacteria	G	1	2	3		
14. Leaf litter	1.5	(1)	0.5	0		
15. Sediment on plants or debris	0	0.5		1.5		
16. Organic debris lines or piles	0	(8.5)	1	1.5		
17. Soil-based evidence of high water table?	No	(a)	Yes	5 = 3		
C. Biology (Subtotal =)						
18. Fibrous roots in streambed	3	2	1	(0)		
19. Rooted upland plants in streambed	<u>(3°)</u>	2	1	0		
20. Macrobenthos (note diversity and abundance)		1	2	3		
21. Aquatic Mollusks	0	1	2	3		
22. Fish	9	0.5	1	1.5		
23. Crayfish	0	0.5	1	1.5		
24. Amphibians	100	0.5	1	1.5		
25. Algae		0.5	1	1.5		
26. Wetland plants in streambed	Con a 25 of manua	FACW = 0.75; OBI	L = 1.5 Other	0)		
*perennial streams may also be identified using other methods	. See p. 35 of manua	ll		-		
Notes:	L .		A.A.	//		
Sketch: SB-1 at landal Very little flow markly						
The Contraction	A 0	Subrut	face			
Hoolphinonly to larger channel mulphe headent 6						
Later orange for large	- chance	dired	dari ous	875		
TOR UPLANT LADY SOL	WWI TE					
OHUM yes from	headin	e d				
V	*	•••				

NC DWQ Stream Identification Form Version 4.11

Date: (/(9/2021	Project/Site:	3R-0060	Latitude:			
Evaluator: R.SIM; A. WULM	Project/Site: BR-1060 County: Slamance		Longitude:			
Evaluator: $2.51M$, $A.000M$ Total Points: Stream is at least intermittent if ≥ 19 or perennial if $\geq 30^*$	Stream Determi Ephemeral Inte	nation (circle one) ermittent Perennial	Other e.g. Quad Name:			
A. Geomorphology (Subtotal = 4, 5)	Absent	Weak	Moderate	Strong		
1 ^a Continuity of channel bed and bank	0	1	(2)	3		
2. Sinuosity of channel along thalweg	(0)	1	2	3		
In-channel structure: ex. riffle-pool, step-pool, ripple-pool sequence	0	1	2	3		
4. Particle size of stream substrate	0		2	3		
5. Active/relict floodplain	0	0	2	3		
6. Depositional bars or benches	(0)	1	2	3		
7. Recent alluvial deposits	(0)	1	2	3		
8. Headcuts	(0)	1	2	3		
9. Grade control	0	0.5	11	1.5		
10. Natural valley	0	(0.5)	1	1.5		
11. Second or greater order channel	(N	0 = 0	Yes	= 3		
artificial ditches are not rated; see discussions in manual						
B. Hydrology (Subtotal =)						
12. Presence of Baseflow	(Q)	1	2	3		
13. Iron oxidizing bacteria	(0)	1	2	3		
14. Leaf litter	1.5	1	0.5	(0)		
15. Sediment on plants or debris	(0)	0.5	1,	1.5		
16. Organic debris lines or piles	0	0.5	(1)	1.5		
17. Soil-based evidence of high water table?	(N	0 = 0	Yes	= 3		
C. Biology (Subtotal =)						
18. Fibrous roots in streambed	3	2	(1)	0		
19. Rooted upland plants in streambed	(3)	2	1	0		
20. Macrobenthos (note diversity and abundance)	0	1	2	3		
21. Aquatic Mollusks	0	1	2	3		
22. Fish	0	0.5	1	1.5		
23. Crayfish	0	0.5	1	1.5		
24. Amphibians	0/	0.5	1	1.5		
25. Algae	0	0.5	1	1.5		
26. Wetland plants in streambed	1550	FACW = 0.75; OE	L = 1.5 Other = 1	0)		
*perennial streams may also be identified using other method	ds. See p. 35 of manu			/		
Notes: At tail and of pond & other			Visternie 1	Appears to		
be man made endence of	disturbance	01-	1			
Sketch: This is a druinage of	itch that	t leads fro	methe po	nd to		
Carre Creek is incised						
No water or water makes for	nel (av	re creek	so it does	suit reach ne (.		
in Channel.	111					

NC DWQ Stream Identification Form	Version 4.11						
Date: May 6, 2021	Project/Site	xide 0860	Latitude:				
Evaluator: Domey Darnell-MAN	County:	other	Longitude:				
Total Points: Stream is at least intermittent if ≥ 19 or perennial if ≥ 30*		ination (circle one) ermittent Perennial	Other e.g. Quad Name:				
2							
A. Geomorphology (Subtotal = 3,5)	Absent	Weak	Moderate	Strong			
1 ^a Continuity of channel bed and bank	0	11	2	3			
2. Sinuosity of channel along thalweg	0	1	2	3			
In-channel structure: ex. riffle-pool, step-pool, ripple-pool sequence	0	1	2	3			
Particle size of stream substrate	0	0	2	3			
5. Active/relict floodplain	0	0	2	3			
6. Depositional bars or benches	(0)	1	2	3			
7. Recent alluvial deposits	(0)	1	2	3			
8. Headcuts	0	1	2	3			
9. Grade control	0	0.5	1	1.5			
10. Natural valley	0	< 0.5 >	1	1.5			
11. Second or greater order channel	N	0/=0)	Yes =	= 3			
artificial ditches are not rated; see discussions in manual	h - C	the left bland					
B. Hydrology (Subtotal = <u>4</u> 方)	make 14	sinc it work	_				
12. Presence of Baseflow	&	- 1	2	3			
13. Iron oxidizing bacteria	0	1	2	3			
14. Leaf litter	1.5	1	(0.5)	0			
15. Sediment on plants or debris	(6)	0.5	1	1.5			
16. Organic debris lines or piles	(6)	0.5	1	1.5			
17. Soil-based evidence of high water table?	N	o = 0	Yes	3			
C. Biology (Subtotal = 3.5)	14						
18. Fibrous roots in streambed	3	2	(F)	0			
19. Rooted upland plants in streambed	3	2	(A)	0			
20. Macrobenthos (note diversity and abundance)	0	0	2	3			
21. Aquatic Mollusks	0	1	2	3			
22. Fish	(6)	0.5	1	1.5			
23. Crayfish	0	0.5	1	1.5			
24. Amphibians	0	(0.5)	1	1.5			
25. Algae	0	0.5	1	1.5			
26. Wetland plants in streambed		FACW = 0.75; OBL	= 1.5 Other = 0	7			
*perennial streams may also be identified using other methods.	See p. 35 of manua						
Notes:							
Sketch: Feature is clearly a	litch ro	then than	a stocan	1.			
Sketch: Feature is clearly a ditch rather than a stocam. Stream ID form completed for NRTA IRTD package that we give feature is a ditchit is not subject to Tordan Lake							
Since teature is a ditabil	is not	subject to	Todan L	alea			
buffer rules (kick-out c	lause)	11					
14124. () 200 (44.00	1) Ruga	À					

Wether Dready so soil bydric. Anyphipals at a few todpoles present at first site visit (4/8/bi)

Photographic Documentation for Ephemeral Channel (Feature SD) connecting Pond PA to Cane Creek

Figure 1: View of outlet of Pond PA

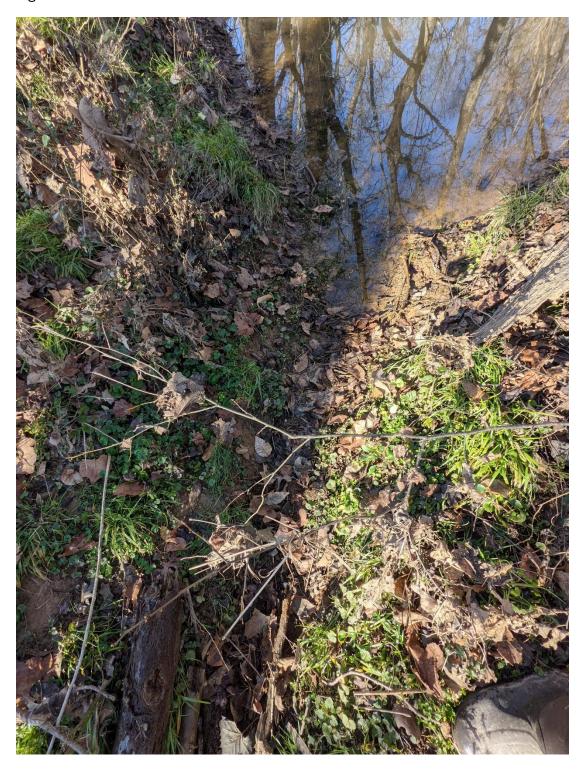


Figure 2: Area assessed between Pond PA and Cane Creek



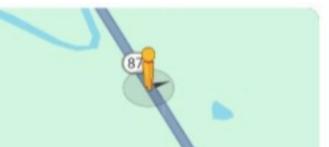
Photographic Documentation of Drainage Area of Off-site Pond

View looking southwest toward off-site pond

Cancel

Pri





Cheely, Erin K

From: Barrett, William A

Sent: Wednesday, August 20, 2025 2:14 PM

To: Conchilla, Ryan

Cc: Alsmeyer, Eric C CIV USARMY CESAW (USA); Cheely, Erin K

Subject: RE: BR-0060 Add Info Pkg (DWR# 20250885)

Attachments: BR-0060_ut_tsh_UO01_UBI_psh Combined 06-26-2025.pdf

Hey Ryan,

The temporary buffer impacts that you inquired about are associated with the proposed clearing for aerial utility line relocation, to be conducted by others. These Utility impacts are outside the footprint of the project impacts, so they were provided separately, in two (2) sets of Utility Impact Drawings. These were included with the original ePCN submittal. Note: a total of four (4) sets of drawings were submitted with the original ePCN, in order:

- 1. (regular) Permit Drawings
- 2. (regular) Buffer Impact Drawings
- 3. Utility Impact Drawings
- 4. Utility Buffer Impact Drawings

Your inquiry did not include any questions directly regarding the Utility Impacts, so I did not include Utility Drawing sets in my recent submittal of supplemental information (I may have interpreted that incorrectly). I have attached the Utility Buffer Impact Drawings, with the buffer impacts depicted on Sheet 2 of 4. They unfortunately do not include the nice color depictions that the regular Buffer Impact Drawings do, so not as visible.

Please note that there are <u>no changes</u> to any of the project / buffer impact values with this submittal of supplemental information.

I hope that I have adequately addressed your questions. Let me know if it would be helpful to discuss.

Thanks!

Bill

William A. Barrett
ECAP Environmental Coordinator
Environmental Analysis Unit
North Carolina Department of Transportation

919 707 6103 office 919 302 1908 mobile wabarrett@ncdot.gov

1598 Mail Service Center (Mail) Raleigh, NC 27699-1598

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From: Conchilla, Ryan <ryan.conchilla@deq.nc.gov>

Sent: Wednesday, August 20, 2025 12:41 PM **To:** Barrett, William A <wabarrett@ncdot.gov>

Cc: Alsmeyer, Eric C CIV USARMY CESAW (USA) <eric.c.alsmeyer@usace.army.mil>; Cheely, Erin K

<ekcheely@ncdot.gov>

Subject: BR-0060 Add Info Pkg (DWR# 20250885)

Bill,

Thank you for this update package, this is really helpful.

The additional descriptions, photos and data forms document the non-jurisdictional status of these drainage features located on-site.

One question:

On page 5 of the PCN, temporary buffer impacts are listed (attached), but I did not notice them in the updated buffer impact table.

These temporary impacts may not be necessary now, but I just wanted to confirm before I move forward with the 401/Buffer Approval.

Talk to you soon-

Ryan Conchilla

Environmental Specialist II 401 and Buffer Transportation Permitting Branch North Carolina Department of Environmental Quality 919-707-9111

Ryan.Conchilla@deq.nc.gov

From: Barrett, William A <<u>wabarrett@ncdot.gov</u>>
Sent: Wednesday, August 20, 2025 11:13 AM
To: Conchilla, Ryan <<u>ryan.conchilla@deq.nc.gov</u>>
Subject: BR-0060 Add Info Pkg (DWR# 20250885)

Ryan,

I have submitted response to DWR's request for Additional Information (DWR# 20250885, dated August 1, 2025) via the website. I thought I would also provide a copy directly to you. Please see attached.

Let me know if it would be helpful to discuss.

Thanks! Bill

William A. Barrett ECAP Environmental Coordinator Environmental Analysis Unit North Carolina Department of Transportation

919 707 6103 office 919 302 1908 mobile wabarrett@ncdot.gov

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1000 Birch Ridge Drive (Delivery) Raleigh, NC 27610



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