



DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, WILMINGTON DISTRICT
RALEIGH REGULATORY OFFICE
3331 HERITAGE TRADE DRIVE, SUITE 105
WAKE FOREST NORTH CAROLINA 27587

September 12, 2025

Regulatory Program/Division
SAW-2016-00629

Sent Via Email: jsbadgett@ncdot.gov

Rex Badgett
Environmental Specialist II
NCDOT Highway Division 8
121 DOT Drive
Carthage, NC 28327

Dear Mr. Badgett:

This letter is in response to the application you submitted to the Wilmington District, WRDA/Transportation Branch on June 11, 2025, and was considered complete on August 28, 2025, for a Department of the Army general permit verification. This project has been assigned the file number SAW-2016-00629 and is known as NCDOT/R-5724/US-15/US-501/Division 8. This file number should be referenced in all correspondence concerning this project.

A review of the information provided indicates that the proposed work would include the widening of the existing two-lane US 15/501(Hillsboro Street) roadway to a three-lane roadway consisting of two travel lanes with a continuous center turn lane and will include the placement of a total of 384 linear feet (lf) of permanent fill/structures, 164 lf of permanent rock bank stabilization, and 113 lf of temporary dewatering activities in five separate roadway crossings of tributaries to Robeson Creek and placement of permanent cut/fill/structures in 0.04 acres of wetland and hand clearing in 0.03 acres of two separate wetland areas. The project area for this determination includes a 21.1 acres area which is illustrated on the enclosed site plans/maps. The project/review area is located across several tributaries to Robeson Creek along a 1.44-mile-long segment of US15/US 501 (Hillsboro Street) between Launis Street and Powell Place Lane, at Latitude 35.735510 and Longitude -79.172680; in Pittsboro, Chatham County, North Carolina.

We have determined that the proposed work is authorized by Regional General Permit 50 (RGP-50) 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 enclosed general permit conditions, any regional conditions, the special conditions listed in this letter, the application materials, and the enclosed plans TIP Project: R-5724B Chatham County. If the extent of the project area and/or nature of the authorized

impacts to waters are modified, a revised application must be submitted to this office for written approval before work is initiated. Any deviation from the terms and conditions of the permit, or your submitted plans, may subject the permittee to enforcement action.

This verification is valid until May 25, 2030, unless the subject general permit(s) is suspended, revoked, or is modified prior to that date such that the activity no longer complies with the terms and conditions of the general permit.

Project Specific Special Conditions:

1. All work must be performed in strict compliance with (a) the description of work in the PCN and (b) the Wetlands and Surface Water Impact Permit Drawing(s) (Permit Plans) in the application dated June 11, 2025. Any modification to the description of work and/or the permit plans must be approved by the USACE prior to implementation.
2. The permittee 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.
3. The U.S. Fish and Wildlife Service's (USFWS's) Programmatic Conference Opinion (PCO) titled "NCDOT Program Effects on the Tricolored Bat in Divisions 1-8", dated November 20, 2023, contains mandatory terms and conditions to implement the reasonable and prudent measures that are associated with "incidental take" that are specified in the PCO. Your authorization under this Corps permit is conditional upon your compliance with all the mandatory terms and conditions associated with incidental take of the PCO, which terms and conditions are incorporated by reference in this permit. Failure to comply with the terms and conditions associated with incidental take of the PCO, where a take of the listed species occurs, would constitute an unauthorized take, and it would also constitute non-compliance with your Corps permit. The USFWS is the appropriate authority to determine compliance with the terms and conditions of its PCO, and with the ESA.
4. In order to compensate for impacts associated with this permit, mitigation shall be provided in accordance with the provisions outlined on the most recent version of the attached Compensatory Mitigation Responsibility Transfer Form. The requirements of this form, including any special conditions listed on this form, are hereby incorporated as special conditions of this permit.

5. NCDOT shall comply with its commitments regarding the following historic properties: Pittsboro Historic District. Specifically, NCDOT shall utilize 2:1 cut/fill slopes for the project and limit tree removals in the portion of this project that is within and/or adjacent to the Pittsboro Historic District as agreed upon by NCDOT and SHPO on February 12, 2019.

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 Stephen A. Brumagin, WRDA/Transportation Project Manager at 704-798-6471, by mail at the above address, or by email at stephen.a.brumagin@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

Permit Plans
401 WQC & Buffer
RGP-50

cc (w/enclosures):

Ben Cogdell, Atkins (via benjamin.cogdell@atkinsglobal.com)

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.		<i>Form Approved -</i> OMB No. 0710-0003 <i>Expires 2027-10-31</i>
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 stephen.a.brumagin@usace.army.mil or by mail at the below address:		
U.S. Army Corps of Engineers Wilmington District Office Street Address: 3331 Heritage Trade Drive, City: Wake Forest State: North Carolina Zip Code: 27587		
COMPLETED BY THE CORPS		
Corps Action Number:	SAW-2016-00629	
Permit Type: <u>General Permit</u>		
General Permit Number and Name (if applicable):	<u>RGP-50</u>	
Name of Permittee:	<u>Rex Badgett</u>	
Project Name:	<u>NCDOT/R-5724/US-15/US-501/Division 8</u>	
Project Location (physical address):	<u>R-5724 B US 15/US 501 (Hillsboro Street)</u> <u>Pittsboro, North Carolina</u>	
PERMITTEE'S CERTIFICATION		
Date Work Started: _____ Date Work Completed: _____		
Enclose photographs showing the completed project (if available). 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

CONTRACT:

VICINITY MAP

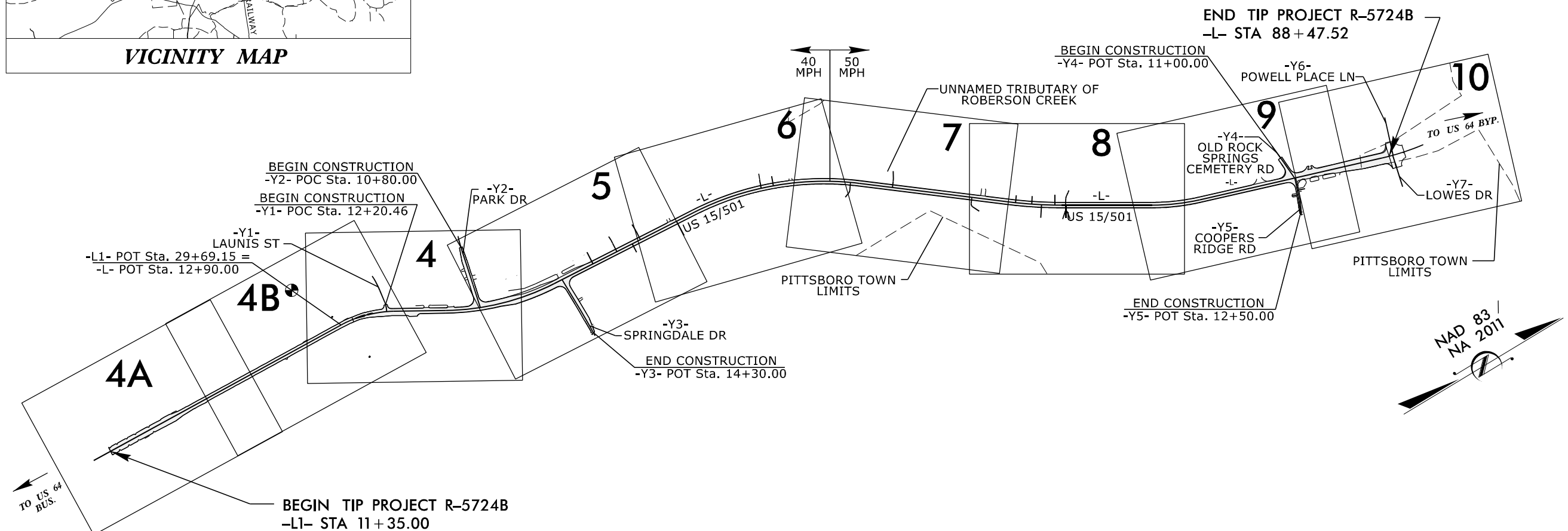
CHATHAM COUNTY

TYPE OF WORK: WIDENING, GRADING, PAVING, AND DRAINAGE

WETLAND AND SURFACE WATER IMPACTS PERMIT

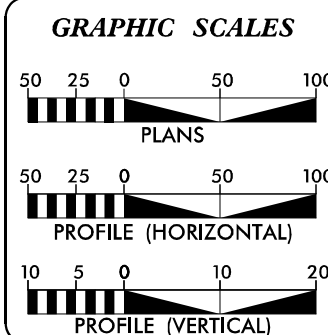
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-5724B	1	
STATE PROJ.NO.	F.A.PROJ.NO.	DESCRIPTION	
50217.1.3	-	PE	
50217.2.3	-	ROW	
50217.2.5	-	UTIL	
50217.3.3	-	CONST	

PERMIT DRAWING
SHEET 1 OF 16



INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



DESIGN DATA
 ADT 2024 = 19,000
 ADT 2044 = 26,600
 K = 9%
 D = 55%
 V = 40/50 MPH
 * TTST = 1% DUALS = 2%
 FUNC CLASS =
 URBAN MINOR
 ARTERIAL
 REGIONAL TIER GUIDELINES

PROJECT LENGTH

TOTAL LENGTH TIP PROJECT R-5724B = 1.779 MILES

ATKINS

1616 E. MILLBROOK ROAD, SUITE #160
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBEES #F-0326

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
AUGUST 19, 2022

LETTING DATE:
APRIL 21, 2026

BRUCE PAYNE, P.E.
PROJECT ENGINEER

PROJECT DESIGN ENGINEER

JEFF STRODER, P.E.
NCDOT CONTACT

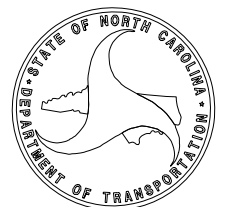
HYDRAULICS ENGINEER

SIGNATURE: _____ **P.E.**

**ROADWAY DESIGN
ENGINEER**

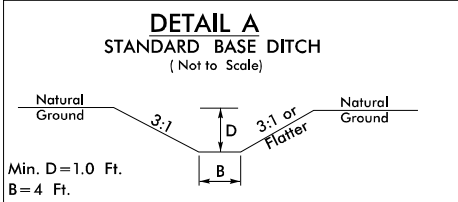
SIGNATURE: _____ *P.E.*

**DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA**

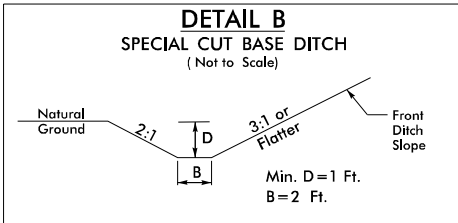


STATE HIGHWAY DESIGN ENGINEER

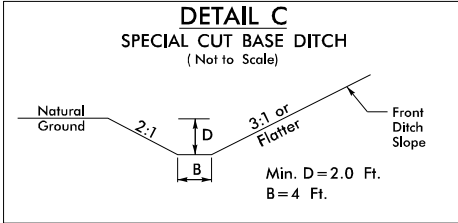
6/2/99
4/8/2005
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Source



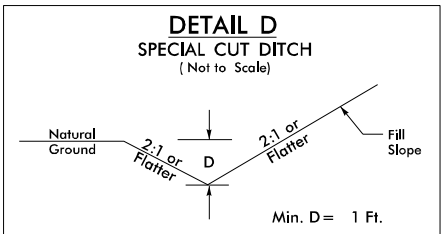
FROM STA. -Y3- 11+17 (54')RT TO STA. -Y3- 11+56 (83')RT



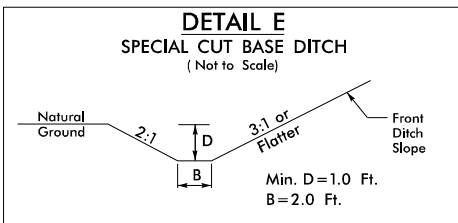
FROM -Y2- STA. 11+65 RT TO -Y2- STA. 14+50 RT



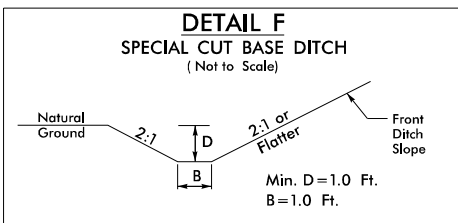
FROM STA. -L- 24+50 LT TO STA. -L- 24+90 LT



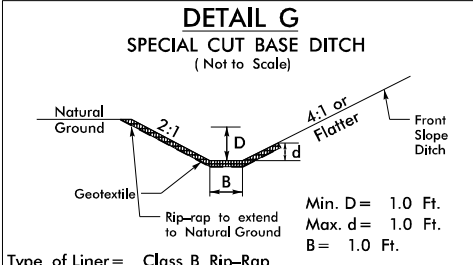
FROM STA. -L- 35+93 RT TO STA. -L- 36+50 RT
FROM STA. -L- 36+90 RT TO STA. -L- 37+50 RT
FROM STA. -L- 38+00 RT TO STA. -L- 40+00 RT
FROM STA. -L- 40+30 RT TO STA. -L- 41+60 RT
FROM STA. -L- 42+05 RT TO STA. -L- 42+30 RT
FROM STA. -L- 59+25 RT TO STA. -L- 60+50 RT
FROM STA. -L- 62+75 RT TO STA. -L- 65+00 RT
FROM STA. -L- 66+14 RT TO STA. -L- 66+75 RT
FROM STA. -L- 67+25 RT TO STA. -L- 69+50 RT
FROM STA. -Y2- 11+00 RT TO STA. -Y2- 11+65 RT
FROM STA. -Y4- 11+00 LT TO STA. -Y4- 11+50 LT



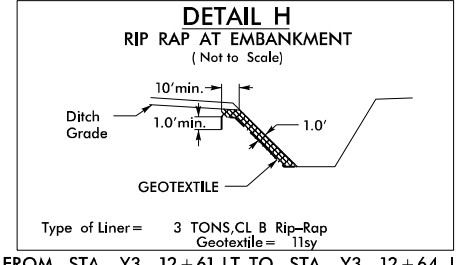
FROM STA. -Y3- 11+00 LT TO STA. -Y3- 11+69 LT
FROM STA. -Y3- 12+00 LT TO STA. -Y3- 12+60 LT
FROM STA. -Y3- 12+62 LT TO STA. -Y3- 13+70 LT
FROM STA. -Y3- 14+00 LT TO STA. -Y3- 14+34 LT
FROM STA. -Y3- 11+91 RT TO STA. -Y3- 14+16 RT
FROM STA. -L- 36+00 LT TO STA. -L- 37+00 LT
FROM STA. -L- 76+13 LT TO STA. -L- 81+00 LT



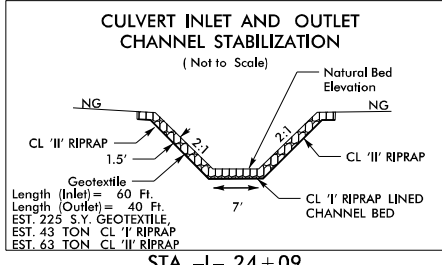
FROM STA. -L- 36+00 LT TO STA. -L- 36+75 LT
FROM STA. -L- 73+12 RT TO STA. -L- 73+68 RT



Type of Liner = Class B Rip-Rap
FROM STA. -L- 73+68 RT TO STA. -L- 73+78 RT
FROM STA. -L- 73+78 RT TO STA. -L- 73+88 RT



FROM STA. -Y3- 12+61 LT TO STA. -Y3- 12+64 LT



STA. -L- 24+09

DETAIL J
RIP-RAPPED ENERGY DISSIPATOR BASIN

DIM. (ft)	1	2
A	2.0	2.0
B	1.33	1.33
C	2.0	2.0
D	1.5	1.5
E	7.5	7.5
F	17.5	17.0
G	15.0	15.0

ALL DIMENSIONS APPROXIMATE

PLAN

SECTION

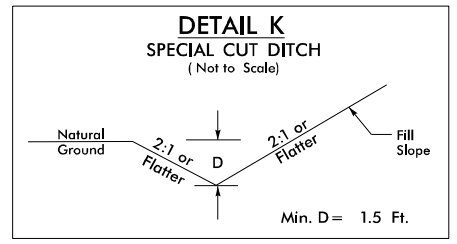
7/08

DETAIL I
(NOT TO SCALE)
SINGLE BARREL CULVERT LOW FLOW CHANNEL AND SILLS

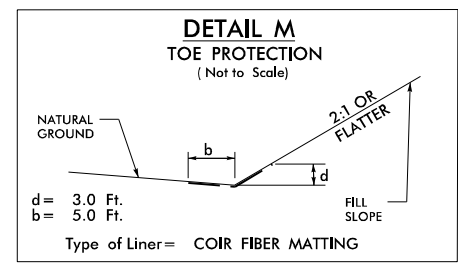
*NOTES:

- 1) NATIVE MATERIAL BETWEEN SILLS/BAFFLES IN THE CULVERT SHALL PROVIDE A CONTINUOUS LOW FLOW CHANNEL. NATIVE MATERIAL CONSISTS OF MATERIAL THAT IS EXCAVATED FROM THE STREAM BED AT THE PROJECT SITE DURING CONSTRUCTION. NATIVE MATERIAL IS SUBJECT TO APPROVAL BY THE ENGINEER AND MAY BE SUBJECT TO PERMIT CONDITIONS.
- 2) SILLS/BAFFLES ARE TO BE 1.0 FT. WIDE, CAST SEPARATELY AND ATTACHED BY DOWELS.
- 3) TOP OF LOW FLOW SILLS/BAFFLES SHOULD MATCH STREAM BED ELEVATION IN LOW FLOW CHANNEL OF STREAM. (THALWEG)
- 4) NUMBER OF SILLS = 2
NUMBER OF BAFFLES = 5

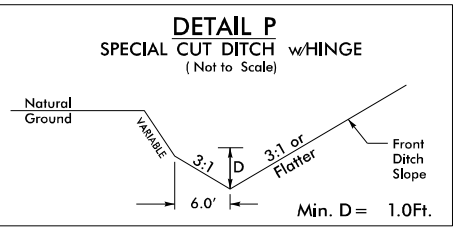
PLAN VIEW



FROM STA. -L- 33+32 LT TO STA. -L- 34+32 LT
FROM STA. -L- 42+05 RT TO STA. -L- 42+30 RT
FROM STA. -L- 54+00 RT TO STA. -L- 55+50 RT



FROM STA. -L- 43+10 RT TO STA. -L- 45+00 RT



FROM STA. -L- 45+75 RT TO STA. -L- 50+00 RT
FROM STA. -L- 50+70 RT TO STA. -L- 56+50 RT
FROM STA. -L- 57+00 RT TO STA. -L- 57+70 RT
FROM STA. -L- 60+50 RT TO STA. -L- 61+38 RT
FROM STA. -L- 65+82 RT TO STA. -L- 66+14 RT
FROM STA. -L- 69+50 RT TO STA. -L- 70+60 RT
FROM STA. -L- 70+90 RT TO STA. -L- 72+58 RT
FROM STA. -L- 83+50 LT TO STA. -L- 86+30 LT

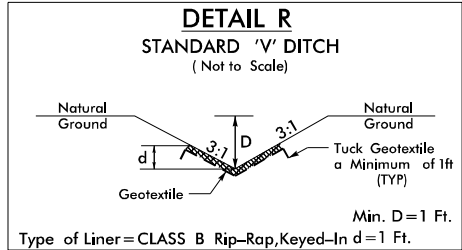
PROJECT REFERENCE NO. R-5724	SHEET NO. 2D
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

ATKINS
1618 EAST WILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-8888 NCBEES #F-0328

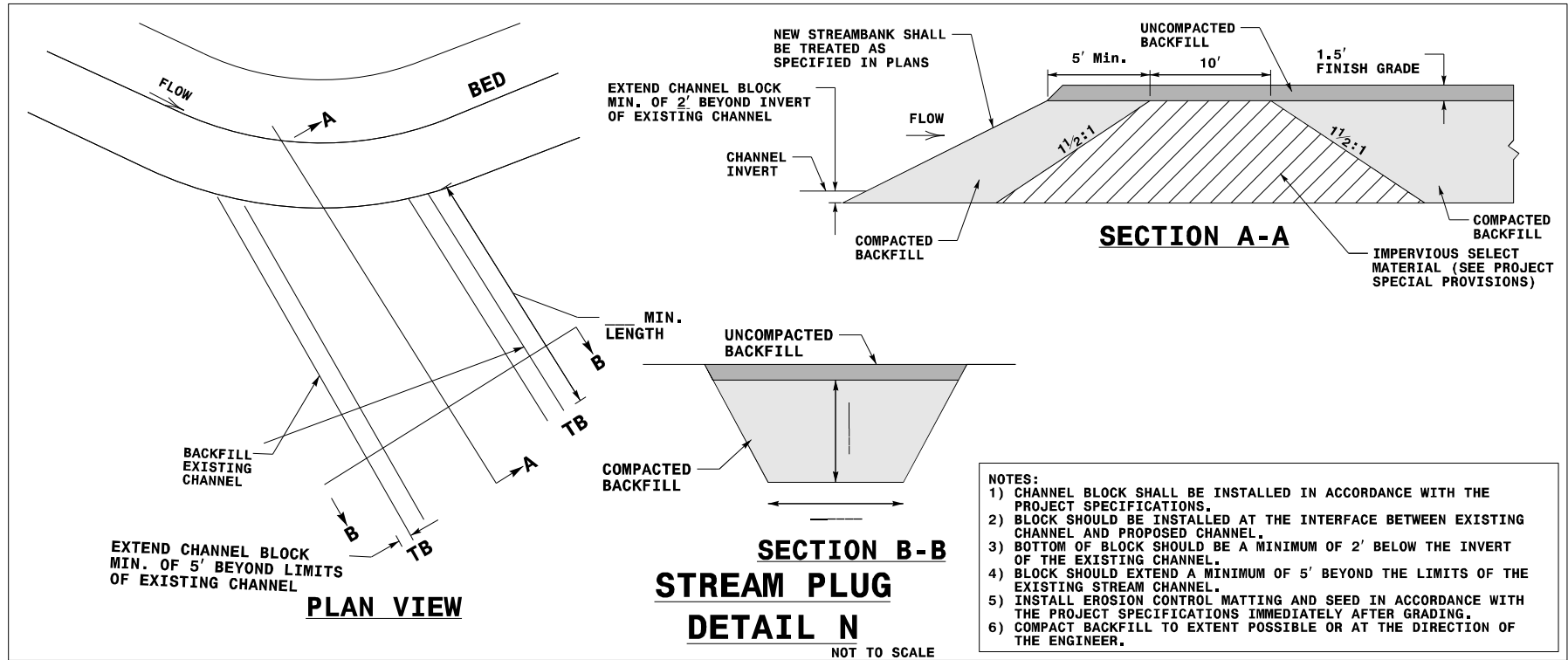
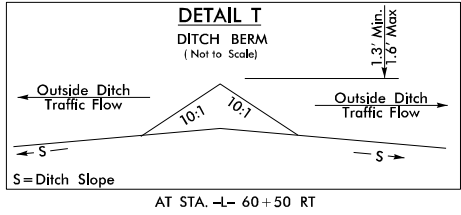
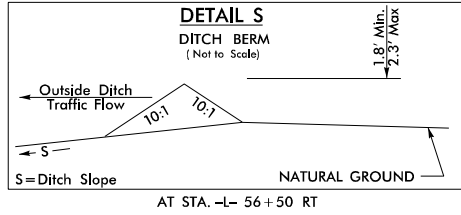
PERMIT DRAWING
SHEET 2 OF 16

6/2/99

4/8/2005
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FROM STA. -L- 47+80 (60')LT TO STA. -L- 47+80 (124')LT

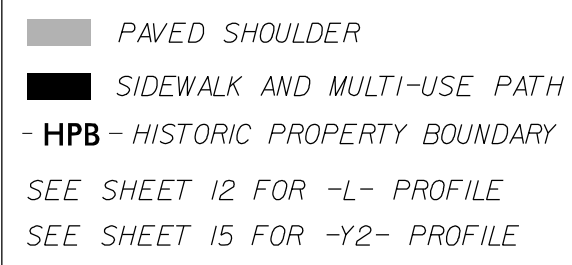


STA. 23+95 -L- RT

PROJECT REFERENCE NO.		SHEET NO.	
R-5724		2E	
ROADWAY DESIGN ENGINEER		PAVEMENT DESIGN ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

ATKINS
1618 EAST WILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27605
(919) 876-8888 NCBEES #F-0328

PERMIT DRAWING
SHEET 3 OF 16



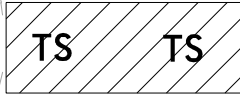
8/17/99

REVISIONS

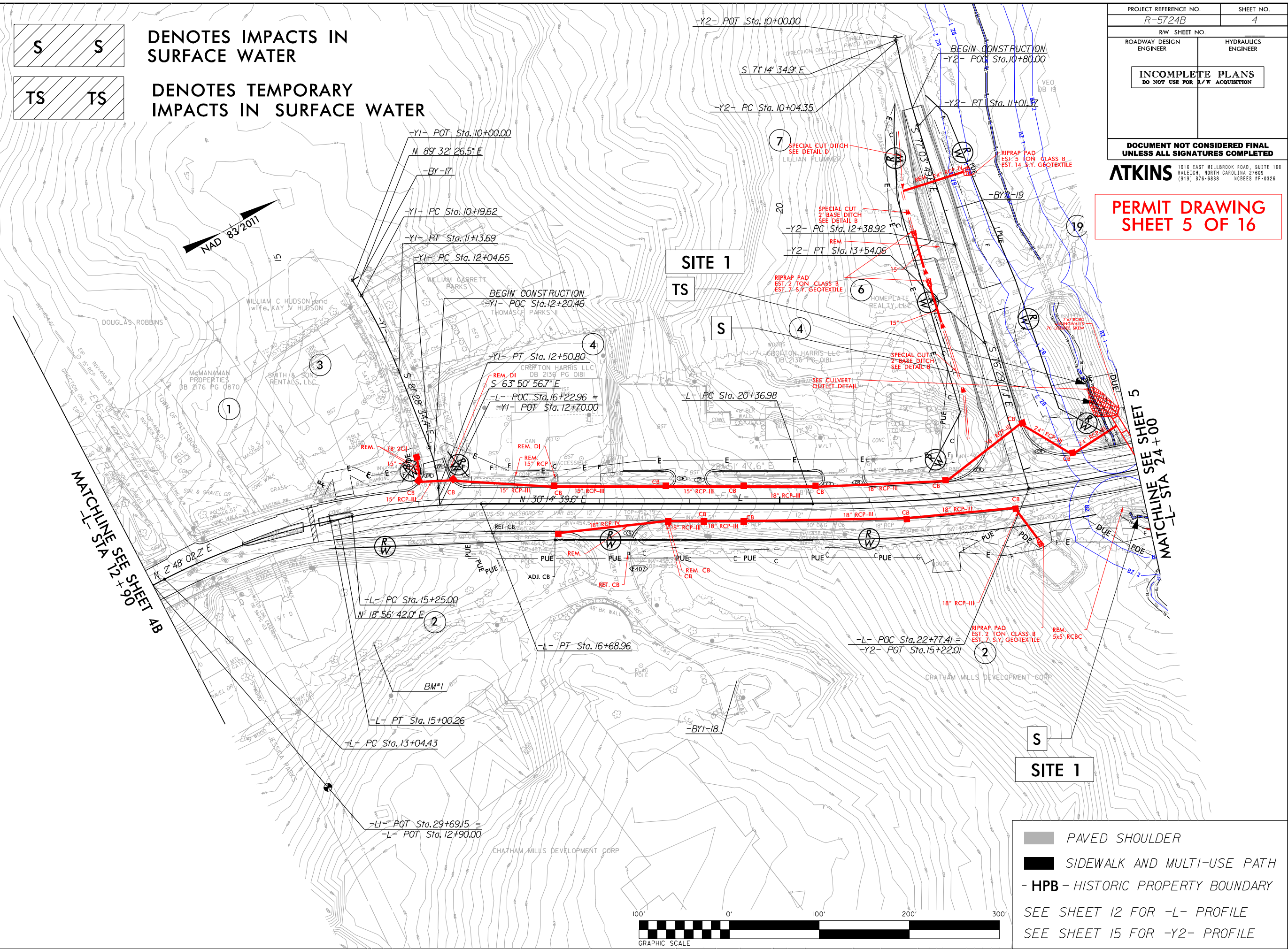
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DENOTES IMPACTS IN
SURFACE WATER



DENOTES TEMPORARY
IMPACTS IN SURFACE WATER



PROJECT REFERENCE NO. R-5724B		SHEET NO. 4	
RW SHEET NO.		HYDRAULICS ENGINEER	
ROADWAY DESIGN ENGINEER			
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160 RALEIGH, NORTH CAROLINA 27609 (919) 876-6868 NCBEES #F-0326			

PERMIT DRAWING
SHEET 5 OF 16

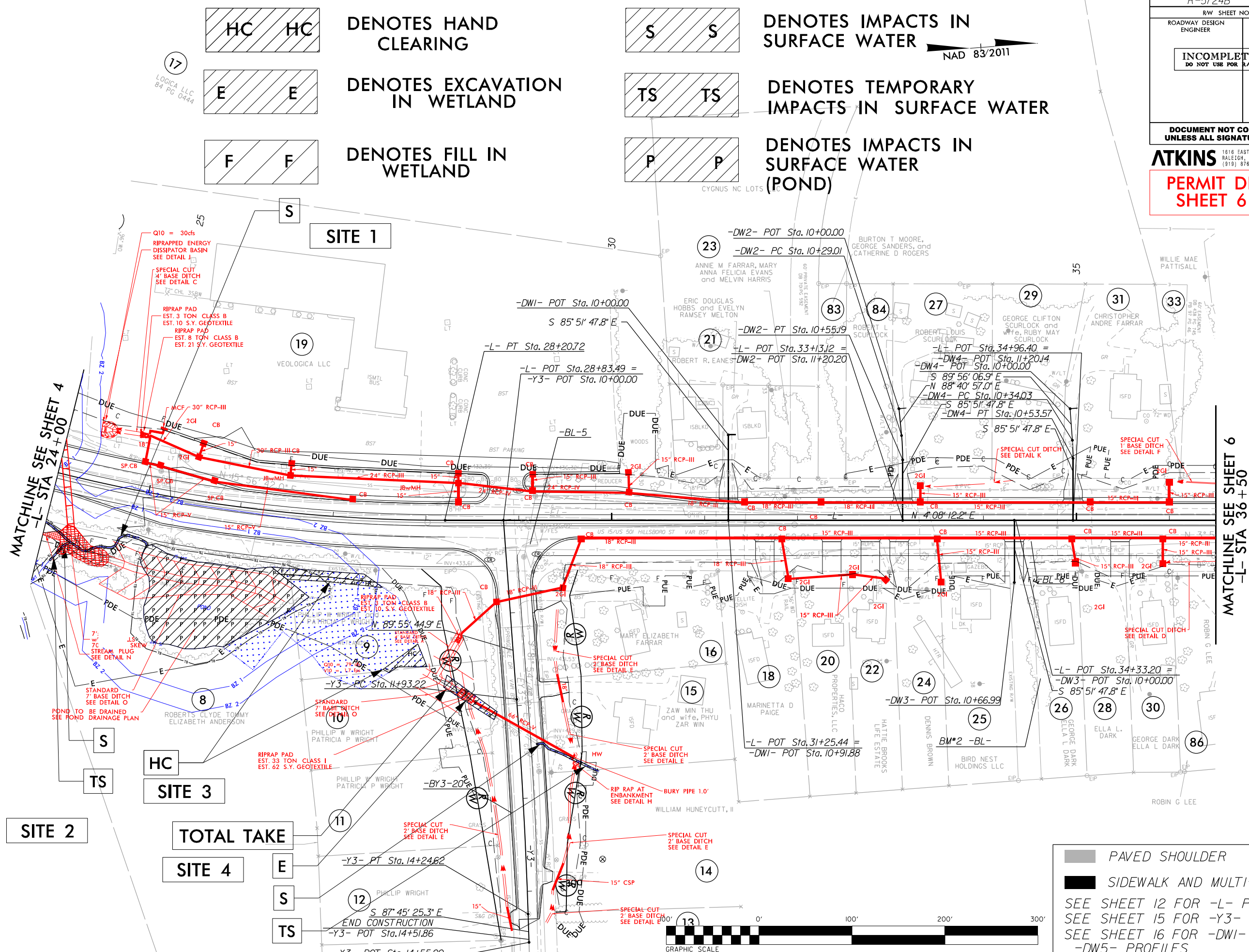
PAVED SHOULDER

SIDEWALK AND MULTI-USE PATH

-HPB- HISTORIC PROPERTY BOUNDARY

SEE SHEET 12 FOR -L- PROFILE

SEE SHEET 15 FOR -Y2- PROFILE

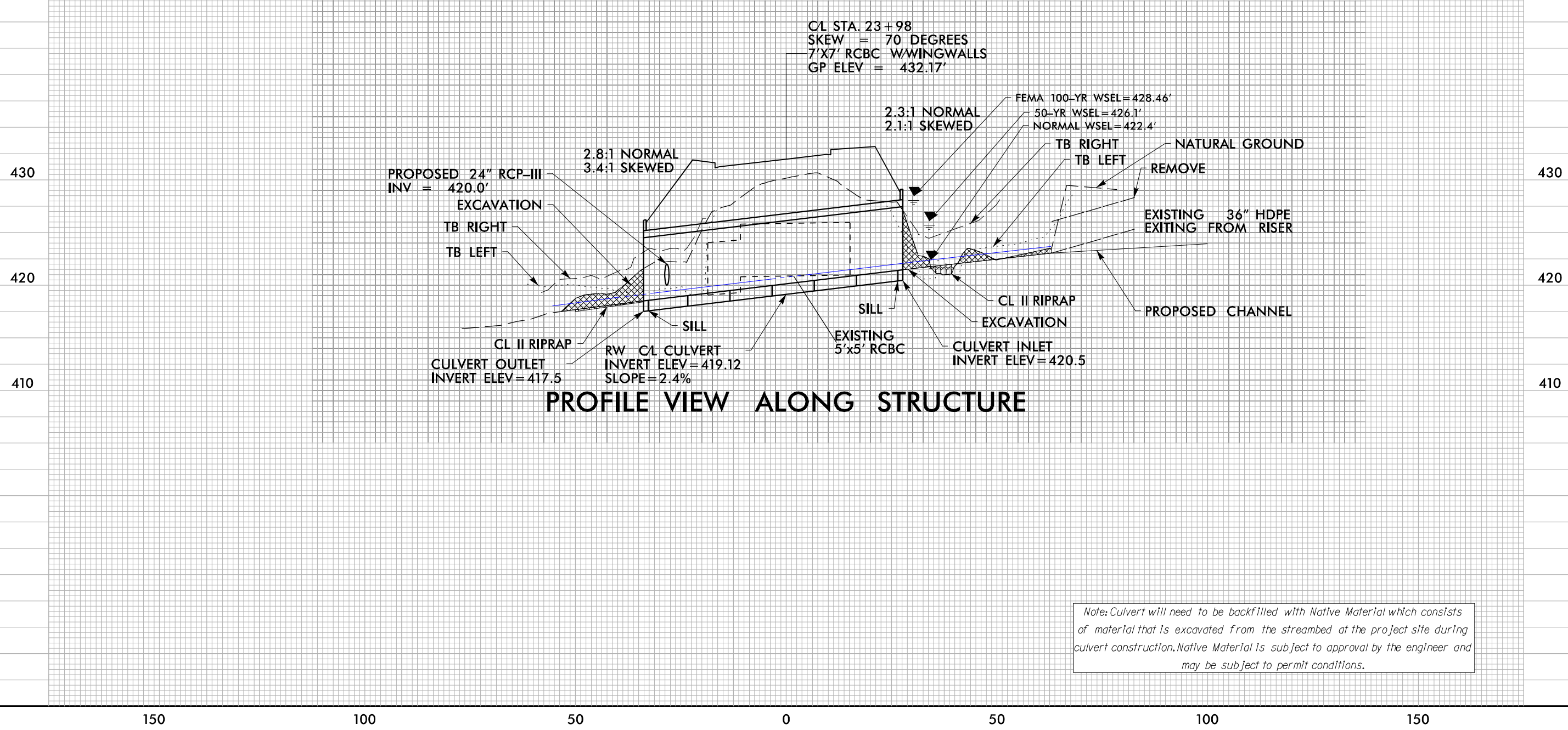


 PAVED SHOULDER
 SIDEWALK AND MULTI-USE PATH
 SEE SHEET 12 FOR -L- PROFILE
 SEE SHEET 15 FOR -Y3- PROFILE
 SEE SHEET 16 FOR -DWI- THRU
 -DW5- PROFILES

5/14/99

4/8/2025
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PROJECT REFERENCE NO. <i>R-5724B</i>		SHEET NO. <i>PRM-8</i>
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		
ATKINS 1616 EAST WILKBROOK ROAD, SUITE 100 RALEIGH, NORTH CAROLINA 27609 (919) 876-6888 NCBEES #F-0326		
PERMIT DRAWING SHEET 8 OF 16		

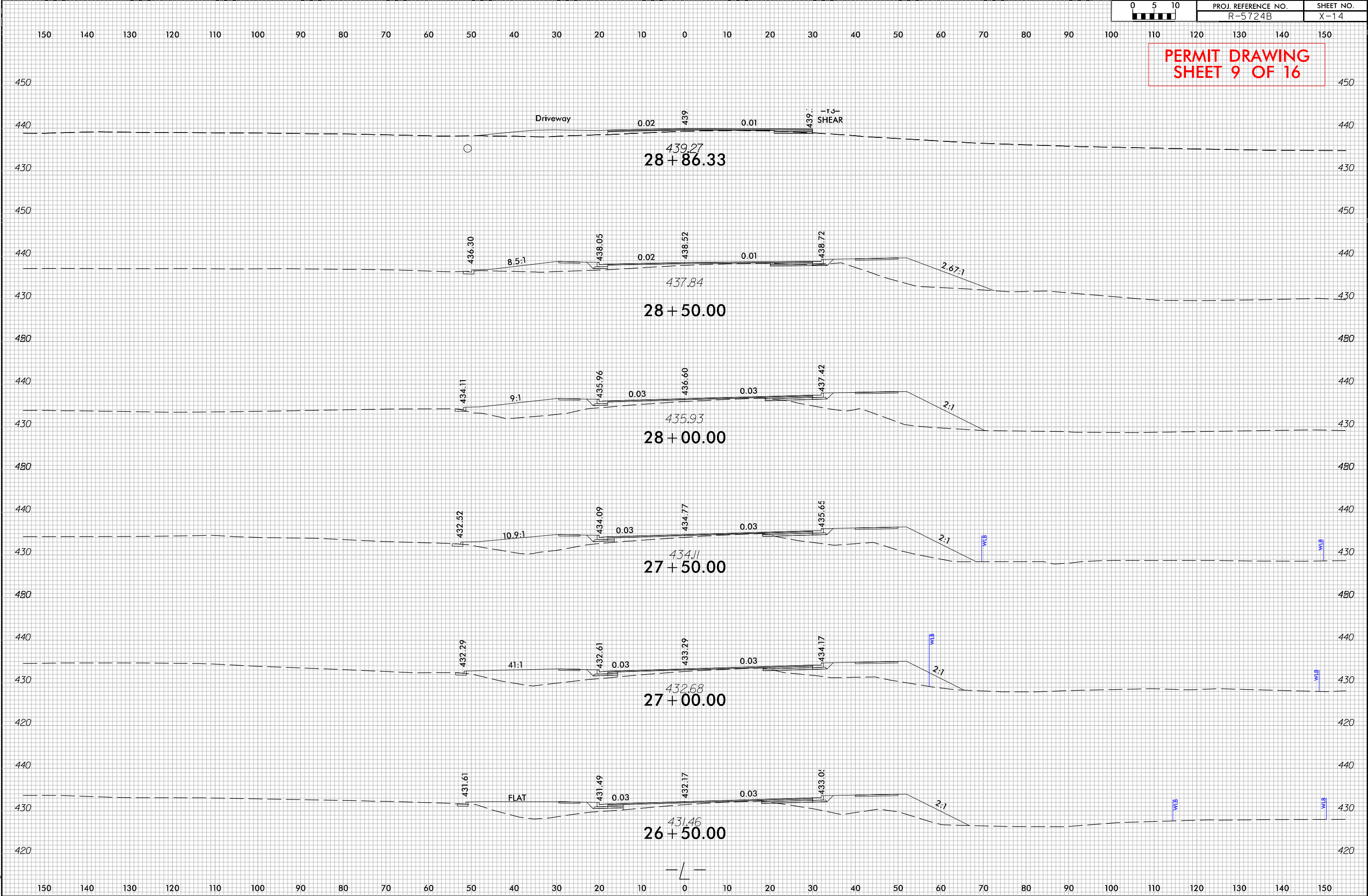


6/23/16

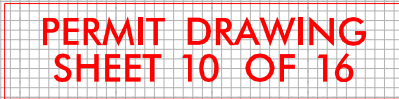


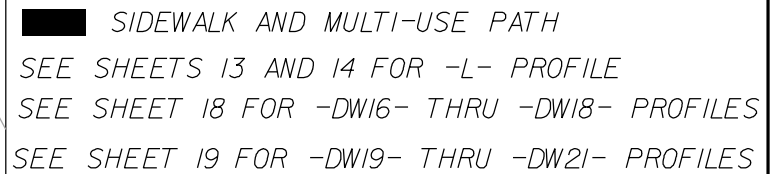
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R-5724B	X-14

PERMIT DRAWING
SHEET 9 OF 16

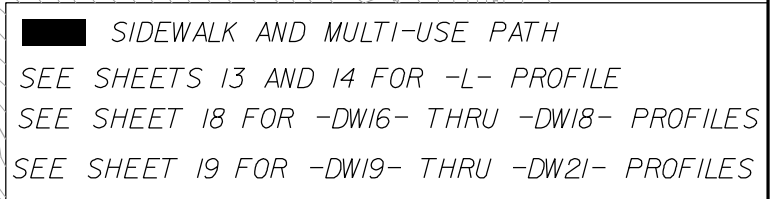


4/18/2025
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**PERMIT DRAWING
SHEET 12 OF 16**



6/23/16

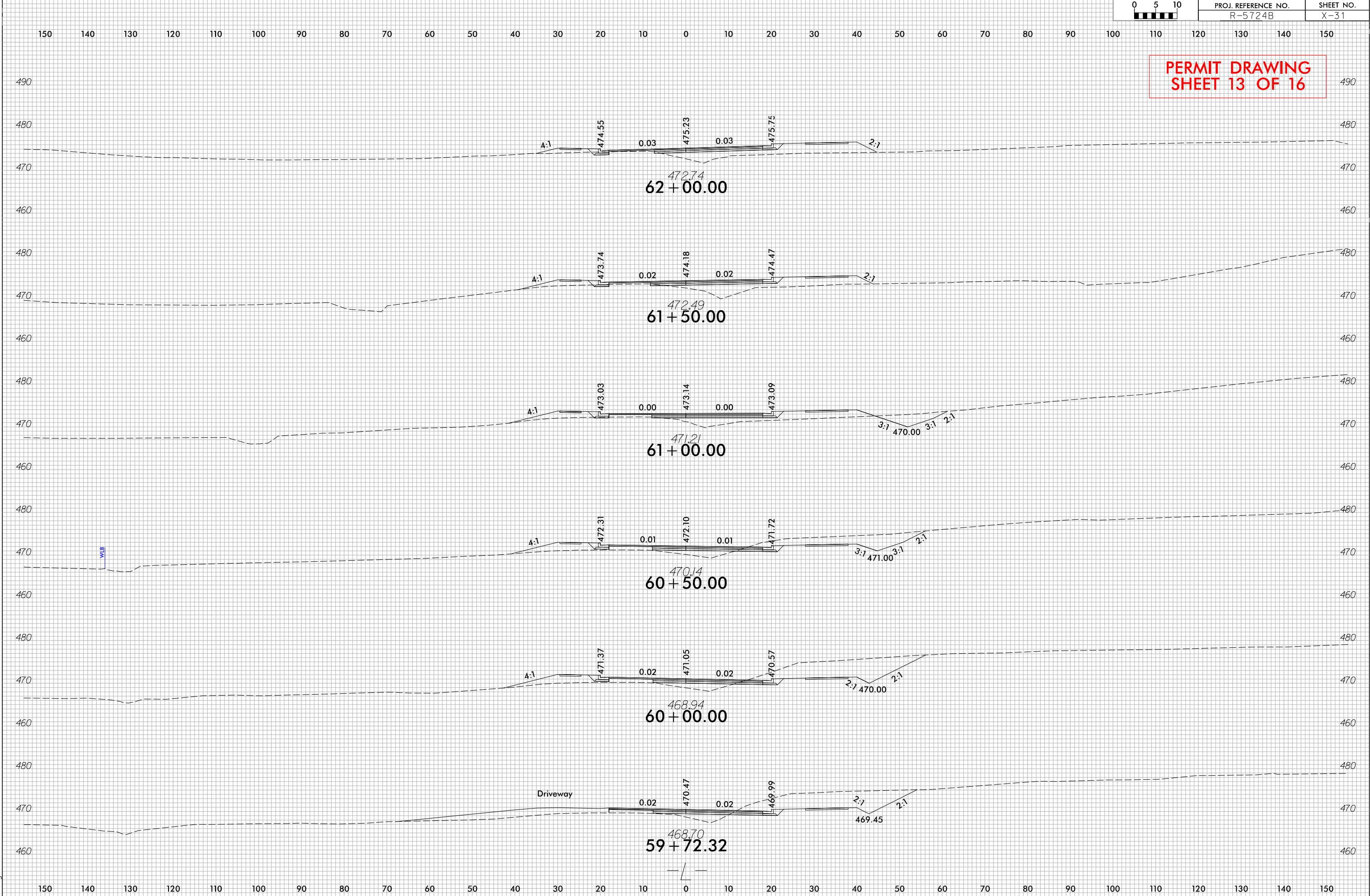
4/18/2025
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eburgess



PROJ. REFERENCE NO.
R-5724B

SHEET NO.
X-31

PERMIT DRAWING
SHEET 13 OF 16



8/17/99

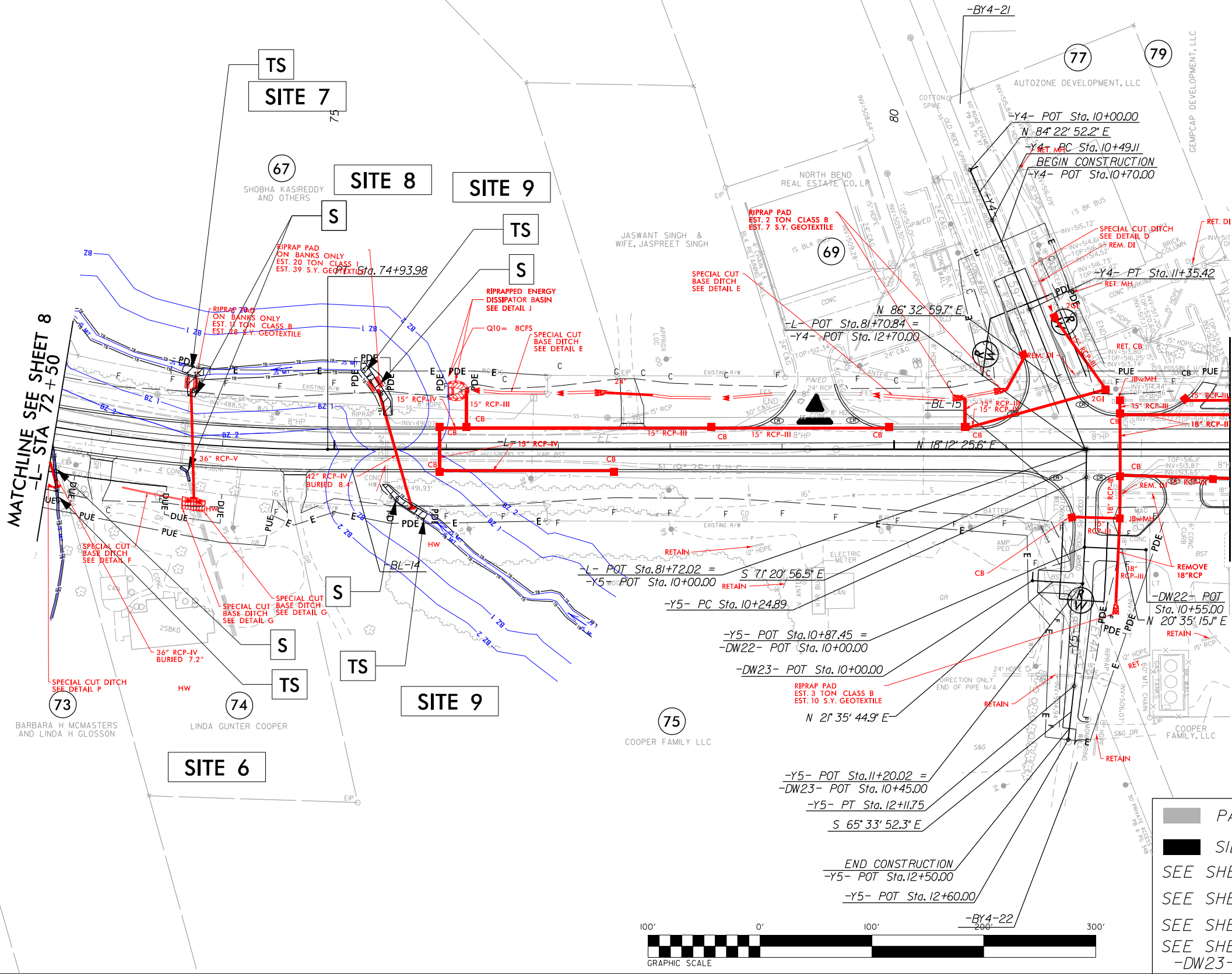
REVISIONS

4/8/2025
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PROJECT REFERENCE NO.	SHEET NO.
R-5724B	9
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

ATKINS
1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-6868 NCBEES #F-0326

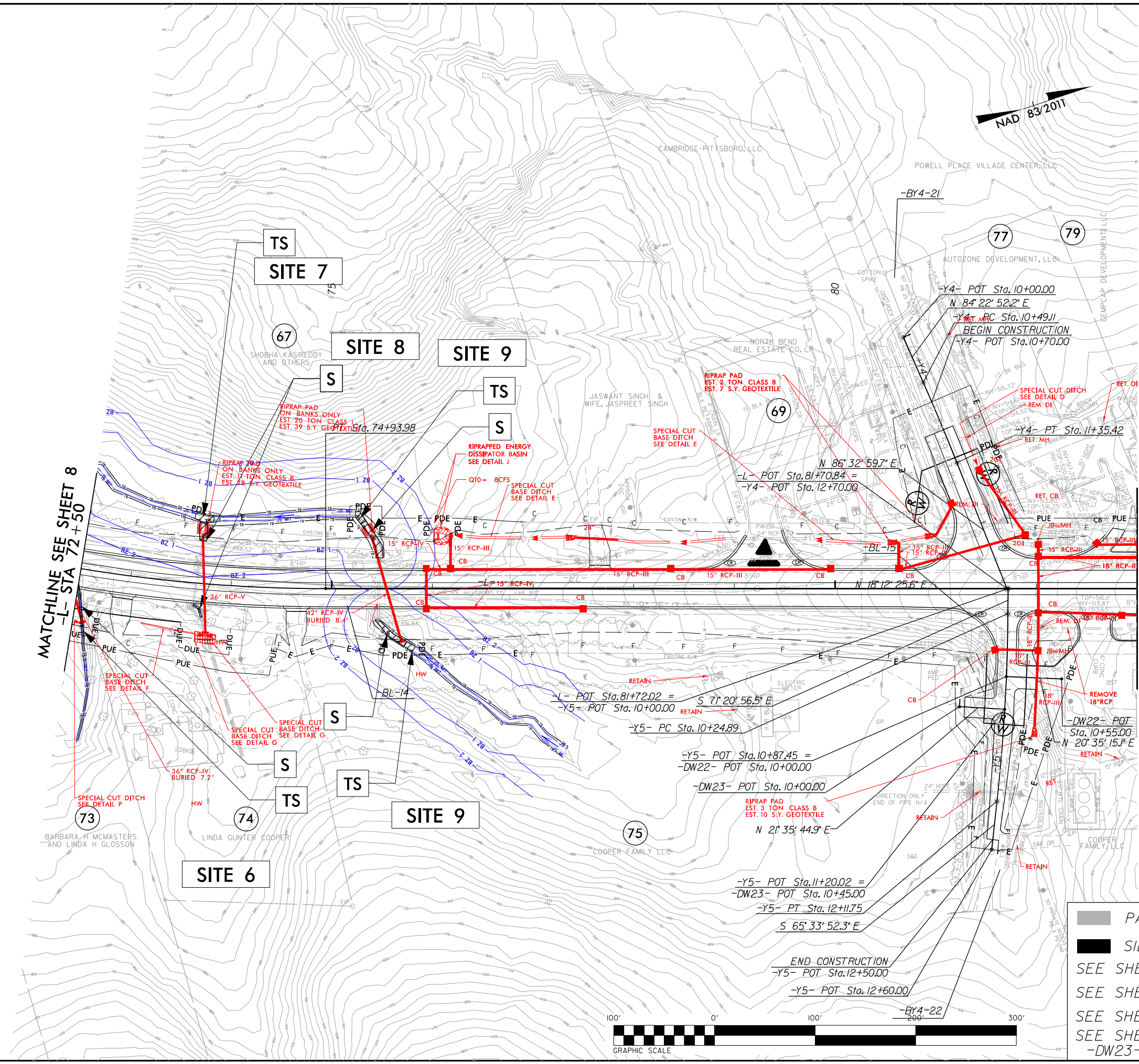
PERMIT DRAWING
SHEET 14 OF 16



- PAVED SHOULDER
- SIDEWALK AND MULTI-USE PATH
- SEE SHEET 14 FOR -L- PROFILE
- SEE SHEET 15 FOR -Y4- PROFILE
- SEE SHEET 15 FOR -Y5- PROFILE
- SEE SHEET 19 FOR -DW22- AND -DW23- PROFILE

8/17/99
4/8/2025
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REVISIONS



PROJECT REFERENCE NO. <i>R-5724B</i>		SHEET NO. <i>9</i>	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
ATKINS 1616 EAST MILLBROOK ROAD, SUITE 160 RALEIGH, NORTH CAROLINA 27609 (919) 876-6868 NCBEES #F-0326			

PERMIT DRAWING
SHEET 15 OF 16

PAVED SHOULDER
SIDEWALK AND MULTI-USE PATH
SEE SHEET 14 FOR -L- PROFILE
SEE SHEET 15 FOR -Y4- PROFILE
SEE SHEET 15 FOR -Y5- PROFILE
SEE SHEET 19 FOR -DW22- AND
-DW23- PROFILE

WETLAND AND SURFACE WATER IMPACTS SUMMARY												
			WETLAND IMPACTS					SURFACE WATER IMPACTS				
Site No.	Station (From/To)	Structure Size / Type	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)
1	-L- 23+61LT to 25+09RT	7x7' Culvert						< 0.01		80		
		Bank Stabilization						< 0.01	< 0.01	145	11	
2	-L- 24+12 to 24+30 RT	Bank Stabilization						< 0.01	< 0.01	19	11	
3	-L- 26+52 to 27+56 RT	Road Fill	0.02				0.01					
	-L- 27+33 to 28+00 RT	Ditch					0.01					
	-L- 25+05 to 26+81 RT	Pond						0.30				
4	-L- 28+21 to 28+74RT	66" Cross Pipe			0.02			< 0.01	< 0.01	54	10	
5	-L- 61+17 to 61+33 LT	48" Cross Pipe						< 0.01	< 0.01	63	20	
6	-L- 71+98 to 72+63 LT	36" Cross Pipe						< 0.01	< 0.01	76	20	
7	-L- 73+58 to 73+78 LT	36" Pipe Outlet							< 0.01		19	
8	-L- 73+63 to 73+74 LT	36" Cross Pipe						< 0.01		34		
9	-L- 75+24LT to 75+92RT	42" Cross Pipe						< 0.01	< 0.01	77	22	
TOTALS*:			0.02		0.02		0.03	0.33	0.01	548	113	0

*Rounded totals are sum of actual impacts

NOTES:
Wetland site 4 is a Total Take

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
8/19/2024
CHATHAM COUNTY
R-5724B

SHEET
16
OF
16

JOSH STEIN

Governor

D. REID WILSON

Secretary

RICHARD E. ROGERS, JR.

Director



NORTH CAROLINA
Environmental Quality

August 27, 2025

Mr. Rex Badgett
121 DOT Drive
Carthage, NC 28327
jsbadgett@ncdot.gov

Subject: 401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act with
ADDITIONAL CONDITIONS for the proposed widening of US 15/501 (Hillsboro Street) between
Launis Street and Powell Place Lane, Pittsboro, Chatham County, NC.
SAW- 2016-00629. NCDWR Project No. 20220699 NCDOT TIP# R-5724B

Dear Mr. Badgett,

Attached hereto is a copy of Certification No. 007975 issued to the NCDOT dated August 27, 2025.

If we can be of further assistance, do not hesitate to contact us.

Sincerely,

Signed by:

Faith Hardin

3185423002EA45E

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

Electronic copy only distribution:
Steve Brumagin, US Army Corps of Engineers
Morgan DeWit, NCDOT Division 8, Project Team Lead
Ben Cogdell, Atkins Realis
Beth Harmon, DMS

401 Water Quality Certification Pursuant to Section 401 of the Federal Clean Water Act with ADDITIONAL CONDITIONS.

THIS CERTIFICATION is issued in conformity with the requirements of Section 401 Public Laws 92-500 and 95-217 of the United States and subject to the North Carolina Division of Water Resources (NCDWR) Regulations in 15 NCAC 2H .0500 and .0267 This certification authorizes the NCDOT to impact 661 linear feet of jurisdictional streams and 0.060 acres of wetlands, in Chatham County. The project shall be constructed pursuant to the application dated received June 11, 2025. The authorized impacts are as described below:

Stream Impacts in the Cape Fear River Basin

Site	Permanent impacts in Stream (linear ft)	Temporary impacts in Stream (linear ft)	Total Stream Impact (linear ft)
S1- 7X7' Culvert	80		80
S2- Bank Stabilization	145		145
S3- Bank Stabilization		11	11
S4- Bank Stabilization	19		19
S5- Bank Stabilization		11	11
S6- 66' Cross Pipe	54		54
S7- 66' Cross Pipe		10	10
S8- 48' Cross Pipe	63		63
S9- 48' Cross Pipe		20	20
S10- 36' Cross Pipe	76		76
S11- 36' Cross Pipe		20	20
S12- 36' Cross Pipe		19	19
S13- 36' Cross Pipe	34		34
S14- 42' Cross Pipe	77		77
S15- 36' Cross Pipe		22	22
Totals	548	113	661

Total Stream Impacts: 661 linear feet.



Wetland Impacts in the Cape Fear River Basin

Site	Perm. Fill in Wetland (acres)	Hand Clearing in Wetland (acres)	Total Wetland Impact (acres)
3- Road Fill	0.020		0.020
3- Hand Clearing		0.020	0.020
4- 66' Cross Pipe	0.020		0.020
Totals	0.040	0.020	0.060

Total Wetland Impacts: 0.060 acres.**Open Water Impacts in the Cape Fear River Basin**

Site	Permanent Fill (acres)	Total Impact (acres)
3- Ditch/ PDE- Pond P1	0.30	0.30
Totals	0.30	0.30

Total Impacts: 0.30 acres.

The application provides adequate assurance that the discharge of fill material into the waters of the Cape Fear River Basin in conjunction with the proposed development will not result in a violation of applicable Water Quality Standards and discharge guidelines. Therefore, the State of North Carolina certifies that this activity will not violate the applicable portions of Sections 301, 302, 303, 306, 307 of PL 92-500 and PL 95-217 if conducted in accordance with the application and conditions hereinafter set forth.

This approval is only valid for the purpose and design that you submitted in your application dated received June 11, 2025. Should your project change, you are required to notify the NCDWR and submit a new application. If the property is sold, the new owner must be given a copy of this Certification and approval letter, and is thereby responsible for complying with all the conditions. If any additional wetland impacts, or stream impacts, for this project (now or in the future) exceed one acre or 150 linear feet, respectively, additional compensatory mitigation may be required as described in 15A NCAC 2H .0506 (h) (6) and (7).

For this approval to remain valid, you are required to comply with all the conditions listed below. In addition, you should obtain all other federal, state or local permits before proceeding with your project including (but not limited to) Sediment and Erosion control, Coastal Stormwater, Non-discharge and Water Supply watershed regulations. This Certification shall expire on the same day as the expiration date of the corresponding Corps of Engineers Permit.

This Water Quality Certification neither grants nor affirms any property right, license, or privilege in any lands or waters, or any right of use in any waters. This Water Quality Certification does not authorize any person to interfere with the riparian rights, littoral rights, or water use rights of any other person and does not create any prescriptive right or any right of priority regarding any usage of water. This Water Quality Certification shall not be interposed as a defense in any action respecting the determination of riparian or littoral rights or other rights to water use. No consumptive user is deemed by virtue of this Water Quality Certification to possess any prescriptive or other right of priority with respect to any other consumptive user regardless of the quantity of the withdrawal or the date on which



the withdrawal was initiated or expanded. Upon the presentation of proper credentials, the Division may inspect the property.

Condition(s) of Certification:

Project Specific Conditions

1. Unless otherwise approved in this certification, placement of culverts and other structures in open waters and streams, shall be placed below the elevation of the streambed by one foot for all culverts with a diameter greater than 48 inches, and 20 percent of the culvert diameter for culverts having a diameter less than 48 inches, to allow low flow passage of water and aquatic life. Design and placement of culverts and other structures including temporary erosion control measures shall not be conducted in a manner that may result in dis-equilibrium of wetlands or streambeds or banks, adjacent to or upstream and down stream of the above structures. The applicant is required to provide evidence that the equilibrium is being maintained if requested in writing by the NCDWR. If this condition is unable to be met due to bedrock or other limiting features encountered during construction, please contact the NCDWR for guidance on how to proceed and to determine whether or not a permit modification will be required. [15A NCAC 02H.0506(b)(2)].
2. If multiple pipes or barrels are required, they shall be designed to mimic natural stream cross section as closely as possible including pipes or barrels at flood plain elevation and/or sills where appropriate. Widening the stream channel should be avoided. Stream channel widening at the inlet or outlet end of structures typically decreases water velocity causing sediment deposition that requires increased maintenance and disrupts aquatic life passage. [15A NCAC 02H.0506(b)(2)]
3. Riprap shall not be placed in the active thalweg channel or placed in the streambed in a manner that precludes aquatic life passage. Bioengineering boulders or structures should be properly designed, sized and installed. [15A NCAC 02H.0506(b)(2)]
4. For all streams being impacted due to site dewatering activities, the site shall be graded to its preconstruction contours and revegetated with appropriate native species. [15A NCAC 02H.0506(b)(2)]
5. The stream channel shall be excavated no deeper than the natural bed material of the stream, to the maximum extent practicable. Efforts must be made to minimize impacts to the stream banks, as well as to vegetation responsible for maintaining the stream bank stability. Any applicable riparian buffer impact for access to stream channel shall be temporary and be revegetated with native riparian species. [15A NCAC 02H.0506(b)(2)]
6. NCDOT shall be in compliance with the NCS00250 issued to the NCDOT, including the applicable requirements of the NCG01000. Please note the extra protections for the sensitive watersheds.
7. Compensatory mitigation for impacts to 0.040 acres of wetlands in the Cape Fear River Basin is required. We understand that you have chosen to perform compensatory mitigation for impacts to wetlands through the North Carolina Division of Mitigation Services (DMS) (formerly NCEEP), and that the DMS has agreed to implement the mitigation for the project. DMS has indicated in a letter dated August 12, 2025 that they will assume responsibility for satisfying the federal Clean Water Act compensatory mitigation requirements for the above-referenced project, in accordance with DMS's Mitigation Banking Instrument signed July 28, 2010.
8. Compensatory mitigation of 548 linear feet of streams in the Cape Fear River Basin shall be required. We understand that you have chosen to perform compensatory mitigation for streams through the North Carolina Division of Mitigation Services (DMS) (formerly NCEEP), and that the DMS has agreed to implement the mitigation for the project. DMS has indicated in a letter dated August 12, 2025 that they will assume responsibility for satisfying the federal Clean Water Act compensatory mitigation requirements for the above-referenced project, in accordance with DMS's Mitigation Banking Instrument signed July 28, 2010.

General Conditions



1. If concrete is used during construction, a dry work area shall be maintained to prevent direct contact between curing concrete and stream water. Water that inadvertently contacts uncured concrete shall not be discharged to surface waters due to the potential for elevated pH and possible aquatic life and fish kills. [15A NCAC 02B.0200]
2. During the construction of the project, no staging of equipment of any kind is permitted in waters of the U.S., or protected riparian buffers. [15A NCAC 02H.0506(b)(2)]
3. The dimension, pattern and profile of the stream above and below the crossing shall not be modified. Disturbed floodplains and streams shall be restored to natural geomorphic conditions. [15A NCAC 02H.0506(b)(2)]
4. The use of rip-rap above the Normal High Water Mark shall be minimized. Any rip-rap placed for stream stabilization shall be placed in stream channels in such a manner that it does not impede aquatic life passage. [15A NCAC 02H.0506(b)(2)]
5. The Permittee shall ensure that the final design drawings adhere to the permit and to the permit drawings submitted for approval. [15A NCAC 02H .0507(c) and 15A NCAC 02H .0506 (b)(2) and (c)(2)]
6. All work in or adjacent to stream waters shall be conducted in a dry work area. Approved BMP measures from the most current version of NCDOT Construction and Maintenance Activities manual such as sandbags, rock berms, cofferdams and other diversion structures shall be used to prevent excavation in flowing water. [15A NCAC 02H.0506(b)(3) and (c)(3)]
7. Heavy equipment shall be operated from the banks rather than in the stream channel in order to minimize sedimentation and reduce the introduction of other pollutants into the stream. [15A NCAC 02H.0506(b)(3)]
8. All mechanized equipment operated near surface waters must be regularly inspected and maintained to prevent contamination of stream waters from fuels, lubricants, hydraulic fluids, or other toxic materials. [15A NCAC 02H.0506(b)(3)]
9. No rock, sand or other materials shall be dredged from the stream channel except where authorized by this certification. [15A NCAC 02H.0506(b)(3)]
10. Discharging hydroseed mixtures and washing out hydro seeders and other equipment in or adjacent to surface waters is prohibited. [15A NCAC 02H.0506(b)(3)]
11. The permittee and its authorized agents shall conduct its activities in a manner consistent with State water quality standards (including any requirements resulting from compliance with §303(d) of the Clean Water Act) and any other appropriate requirements of State and Federal law. If the NCDWR determines that such standards or laws are not being met (including the failure to sustain a designated or achieved use) or that State or federal law is being violated, or that further conditions are necessary to assure compliance, the NCDWR may reevaluate and modify this certification. [15A NCAC 02B.0200]
12. All fill slopes located in jurisdictional wetlands shall be placed at slopes no flatter than 3:1, unless otherwise authorized by this certification. [15A NCAC 02H.0506(b)(2)]
13. A copy of this Water Quality Certification shall be maintained on the construction site at all times. In addition, the Water Quality Certification and all subsequent modifications, if any, shall be maintained with the Division Engineer and the on-site project manager. [15A NCAC 02H .0507(c) and 15A NCAC 02H .0506 (b)(2) and (c)(2)]
14. The outside buffer, wetland or water boundary located within the construction corridor approved by this authorization shall be clearly marked by highly visible fencing prior to any land disturbing activities. Impacts to areas within the fencing are prohibited unless otherwise authorized by this certification. [15A NCAC 02H.0501 and .0502]
15. The issuance of this certification does not exempt the Permittee from complying with any and all statutes, rules, regulations, or ordinances that may be imposed by other government agencies (i.e. local, state, and federal) having jurisdiction, including but not limited to applicable buffer rules, stormwater management rules, soil erosion and sedimentation control requirements, etc.



16. The Permittee shall report any violations of this certification to the Division of Water Resources within 24 hours of discovery. [15A NCAC 02B.0506(b)(2)]
17. Upon completion of the project (including any impacts at associated borrow or waste sites), NCDOT project engineer (or appointee) shall complete and return the enclosed "Certification of Completion Form" to notify the NCDWR when all work included in the 401 Certification has been completed. [15A NCAC 02H.0502(f)]
18. There shall be no excavation from, or waste disposal into, jurisdictional wetlands or waters associated with this permit without appropriate modification. Should waste or borrow sites, or access roads to waste or borrow sites, be located in wetlands or streams, compensatory mitigation will be required since that is a direct impact from road construction activities. [15A NCAC 02H.0506(b)(3) and (c)(3)]
19. Erosion and sediment control practices must be in full compliance with all specifications governing the proper design, installation and operation and maintenance of such Best Management Practices in order to protect surface waters standards [15A NCAC 02H.0506(b)(3) and (c)(3)]:
 - a. The erosion and sediment control measures for the project must be designed, installed, operated, and maintained in accordance with the most recent version of the *North Carolina Sediment and Erosion Control Planning and Design Manual*.
 - b. The design, installation, operation, and maintenance of the sediment and erosion control measures must be such that they equal, or exceed, the requirements specified in the most recent version of the *North Carolina Sediment and Erosion Control Manual*. The devices shall be maintained on all construction sites, borrow sites, and waste pile (spoil) projects, including contractor-owned or leased borrow pits associated with the project.
 - c. For borrow pit sites, the erosion and sediment control measures must be designed, installed, operated, and maintained in accordance with the most recent version of the *North Carolina Surface Mining Manual*.
 - d. The reclamation measures and implementation must comply with the reclamation in accordance with the requirements of the Sedimentation Pollution Control Act.
20. Sediment and erosion control measures shall not be placed in wetlands or waters unless otherwise approved by this Certification. [15A NCAC 02H.0506(b)(3) and (c)(3)]
21. When applicable, all construction activities shall be performed and maintained in full compliance with G.S. Chapter 113A Article 4 (Sediment and Pollution Control Act of 1973). Regardless of applicability of the Sediment and Pollution Control Act, all projects shall incorporate appropriate Best Management Practices for the control of sediment and erosion so that no violations of state water quality standards, statutes, or rules occur. [15A NCAC 02H .0506 {b}(3) and (c)(3) and 15A NCAC 02B.0200]
22. Design, installation, operation, and maintenance of all sediment and erosion control measures shall be equal to or exceed the requirements specified in the most recent version of the *North Carolina Sediment and Erosion Control Manual*, or for linear transportation projects, the *NCDOT Sediment and Erosion Control Manual*. All devices shall be maintained on all construction sites, borrow sites, and waste pile (spoil) sites, including contractor-owned or leased borrow pits associated with the project. Sufficient materials required for stabilization and/or repair of erosion control measures and stormwater routing and treatment shall be on site at all times.

This Certification shall become null and void unless the above conditions are made conditions of the Federal 404 and/or Coastal Area Management Act Permit. This Certification shall expire upon the expiration of the 404 or CAMA permit. Please be aware that impacting waters without first applying for and securing the issuance of a 401 Water Quality Certification violates Title 15A of the North Carolina Administrative Code (NCAC) 2H .0500. Title 15A NCAC 2H .0500 requires certifications pursuant to Section 401 of the Clean Water Act whenever construction or operation of facilities will result in a discharge into navigable waters, including wetlands, as described in 33 Code of Federal Regulations (CFR) Part 323. It also states any person desiring issuance of the State certification or coverage under a general certification required by Section 401 of the Federal Water Pollution Control Act shall file with the Director of the North Carolina Division of Water Quality. Violations of any condition herein set forth may result in revocation of this Certification and may result in criminal and/or civil penalties. Pursuant to G.S. 143-215.6A, these



violations and any future violations are subject to a civil penalty assessment of up to a maximum of \$25,000.00 per day for each violation.

This approval and its conditions are final and binding unless contested [G.S. 143-215.5]. Please be aware that impacting waters without first applying for and securing the issuance of a 401 Water Quality Certification violates Title 15A of the North Carolina Administrative Code (NCAC) 2H .0500. Title 15A NCAC 2H .0500 requires certifications pursuant to Section 401 of the Clean Water Act whenever construction or operation of facilities will result in a discharge into navigable waters, including wetlands, as described in 33 Code of Federal Regulations (CFR) Part 323. It also states any person desiring issuance of the State certification or coverage under a general certification required by Section 401 of the Federal Water Pollution Control Act shall file with the Director of the North Carolina Division of Water Quality. Pursuant to G.S. 143-215.6A, these violations and any future violations are subject to a civil penalty assessment of up to a maximum of \$25,000.00 per day for each violation.

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

A party filing a Petition must serve a copy of the Petition on:

Dan Hirschman, General Counsel
Department of Environmental Quality
1601 Mail Service Center
Raleigh, NC 27699-1601

If the party filing the Petition is not the permittee, then the party must also serve the recipient of the Certification in accordance with N.C.G.S 150B-23(a).

This the 27th day of August, 2025

DIVISION OF WATER RESOURCES

Signed by:

Faith Hardin

3185423002EA46E...

Richard E. Rogers, Jr., Director

WQC No. 007975



JOSH STEIN

Governor

D. REID WILSON

Secretary

RICHARD E. ROGERS, JR.

Director

NORTH CAROLINA
Environmental Quality

August 27, 2025

Chatham County

NCDWR Project No. 20220699

NCDOT TIP# R-5724B

Improvements to US 15/501 (Hillsboro
Street) between Launis Street and Powell
Place Lane

**APPROVAL of Jordan Lake Water Supply Riparian Buffer Impacts with Additional Conditions
for:**

NCDOT TIP – R-5724B, Proposed improvements for US 15/501

Robeson Creek -Haw River in the Jordan Lake Watershed (HUC# 0303000207);

Index No. 16-38-3, Water Supply, WS-IV, (NSW)

Dear Mr. Badgett:

You have our approval for the impacts listed below for the purpose described in your application dated June 11, 2025 received by the Division of Water Resources. These impacts are covered by Jordan Lake Water Supply Watershed Riparian Buffer Protection Rules and the Conditions listed below. Please note that you should get any other federal, state or local permits before proceeding with your project, including those required by (but not limited to) Sediment and Erosion Control, Non-Discharge, and Water Supply Watershed regulations.

The following impacts are hereby approved, provided that, all the conditions listed below, and all the conditions of the Jordan Lake Water Supply Watershed Riparian Buffer Rules are met. No other impacts are approved, including incidental impacts. (15A NCAC 02B .0267).

Jordan Lake Water Supply Watershed Riparian Buffer Impacts

Site	Zone 1 Impact (sq ft)	Zone 1 Impact Mitigable (sq ft)	Zone 2 Impact (sq ft)	Zone 2 Impact Mitigable (sq ft)
Site 1- Allowable- SB	336		2,344	
Site 1- Allowable w/ Mitigation-SB		306		2,903
Site 2- Allowable w/ Mitigation- SB		12,044		4,381
Site 3- Allowable w/ Mitigation- P1		20,487		11,381
Site 4- Allowable- SA	5,979		10,173	
Site 4- Allowable w/Mitigation- SA		9,451		9,537
Site 5- Allowable- SD	2,766		1,848	
Site 6- Allowable- SA	4,116		370	
Site 6- Allowable w/ Mitigation- SA		718		142
Site 7- Allowable- SA	7,724		3,499	
Totals	20,921	43,006	18,234	28,344

Total Buffer Impact for Project: 110,505 square feet.
Total Buffer Mitigation for the Project: 72,061 square feet.

After reviewing your application, we have decided that these impacts are covered by Individual Water Quality Certification Number 007975. This certification corresponds to General Permit 50 issued by the Corps of Engineers. This approval is also valid for the Jordan Lake Riparian Buffer Rules (15A NCAC 2B.0267). In addition, you should acquire any other federal, state or local permits before you proceed with your project including (but not limited to) Sediment and Erosion Control, Non-Discharge and Water Supply Watershed regulations.

This approval is for the purpose and design described in your application. The plans and specifications for this project are incorporated by reference as part of this Authorization Certificate. If you change your project, you must notify the Division and you may be required to submit a new application package. If the property is sold, the new owner must be given a copy of this Authorization Certificate and is responsible for complying with all conditions. 15A NCAC 02B .0611(b)(2). The permittee shall report any noncompliance with the conditions of this Authorization Certificate and/or any violation of state regulated riparian buffer rules (15A NCAC 02B .0267).

If you are unable to comply with any of the conditions below, you must notify Ryan Conchilla with the Transportation Permitting Branch at Ryan.Conchilla@deq.nc.gov within 24 hours (or the next business day if a weekend or holiday) from the time the permittee becomes aware of the circumstances.

Additional Conditions:

1. All stormwater runoff shall be directed as sheetflow through stream buffers at non-erosive velocities, unless otherwise approved by this Certification. (15A NCAC 02B .0267)
2. All riparian buffers impacted by the placement of temporary fill or clearing activities shall be restored to the preconstruction contours and revegetated. Maintained buffers shall be permanently revegetated with non-woody species by the end of the growing season following completion of construction. For this condition, maintained buffer areas are defined as areas within the transportation corridor that will be subject to regular NCDOT maintenance activities including mowing. The area with non-maintained buffers shall be permanently revegetated with native woody species before the next growing season following completion of construction. (15A NCAC 02B .0267)
3. Pursuant to 15A NCAC 2B.0267, sediment and erosion control devices shall not be placed in Zone 1 of any Jordan Lake River Water Supply Watershed Riparian Buffer without prior approval by NCDWR. At this time, NCDWR has approved no sediment and erosion control devices in Zone 1, outside of the approved project impacts, anywhere on this project. Moreover, sediment and erosion control devices shall be allowed in Zone 2 of the buffers provided that Zone 1 is not compromised, and that discharge is released as diffuse flow.
4. Tall fescue shall not be used in the establishment of temporary or permanent groundcover within riparian areas. For the establishment of permanent herbaceous cover, erosion control matting shall be used in conjunction with an appropriate native seed mix on disturbed soils within the riparian area and on disturbed steep slopes with the following exception. Erosion control matting is not necessary if the area is contained by perimeter erosion control devices such as silt fence, temporary sediment ditches, basins, etc. Matting should be secured in place with staples, stakes, or wherever possible, live stakes of native trees. Erosion control matting placed in riparian areas



shall not contain a nylon mesh grid, which can impinge and entrap small animals. For the establishment of temporary groundcover within riparian areas, hydroseeding along with wood or cellulose based hydro mulch applied from a fertilizer- and limestone-free tank is allowable at the appropriate rate in conjunction with the erosion control measures. Discharging hydroseed mixtures and wood or cellulose mulch into surface waters is prohibited. Riparian areas are defined as a distance 25 feet landward from top of stream bank.

This approval and its conditions are final and binding unless contested. [G.S. 143-215.5]

This Authorization Certificate can be contested as provided in Chapter 150B of the North Carolina General Statutes by filing a Petition for a Contested Case Hearing (Petition) with the North Carolina Office of Administrative Hearings (OAH) **within sixty (60) calendar days**. Requirements for filing a Petition are set forth in Chapter 150B of the North Carolina General Statutes and Title 26 of the North Carolina Administrative Code. Additional information regarding requirements for filing a Petition and Petition forms may be accessed at <http://www.ncogh.com/> or by calling the OAH Clerk's Office at (919) 431-3000.

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

Dan Hirschman, General Counsel
Department of Environmental Quality
1601 Mail Service Center
Raleigh, NC 27699-1601

This Authorization shall expire five (5) years from the date of this letter.

This letter completes the review of the Division under the Jordan Lake Water Supply Watershed Riparian Buffer Protection Rules as described in 15A NCAC 02B. 0267. Please contact Ryan Conchilla at Ryan.Conchilla@deq.nc.gov if you have any questions or concerns.

Sincerely,
Signed by:

Patricia Hardin
3185423002EA45E...

Richard E. Rogers, Director
Division of Water Resources

Cc:

Steve Brumagin, US Army Corps of Engineers
Morgan DeWitt, NCDOT Division 8, Project Team Lead
Ben Cogdell, Atkins Realis
Beth Harmon, DMS

