



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

J. ERIC BOYETTE
SECRETARY

January 3, 2023

MEMORANDUM TO: Division 7 Environmental and Construction Units

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

SUBJECT: Environmental Permits for the Replacement of Bridge 780151 on US 158
over US 29 in Rockingham County, Division 7, **TIP: BR-0043.**

Please find enclosed the following permits for this project:

Under the current design, project impacts fall below written notification or written approval requirements from the USACE or NC DWR. The NCDOT must comply with all conditions and descriptions in the attached Permit Drawings, as well as the 404 General Conditions, and 401 Water Quality Certifications.

Agency	Permit Type	Permit Expiration
US Army Corps of Engineers Section 404 Clean Water Act Permit	Nationwide Permit 3	March 14, 2026
NC Division of Water Resources Section 401 Water Quality Certification	General Certification No. 4239	March 14, 2026

Work is authorized by the above referenced permit provided it is accomplished in strict accordance with the permitted plans.

The Environmental Coordination and Permitting Group or the Division Environmental Office must be consulted if any deviation from the permit(s) is required.

The General Conditions and Certifications for Nationwide and Regional Permits can be referenced at:
https://xfer.services.ncdot.gov/pdea/PermIssued/_General_Conditions_and_Certifications/

PROJECT COMMITMENTS

T.I.P Project No. BR-0043
Replacement of Bridge No. 780151
on US 158 over US 29
Rockingham County
WBS Element 67043.1.1

COMMITMENTS FROM PROJECT DEVELOPMENT AND DESIGN

NCDOT Division 7 Construction – Northern long-eared bat

~~The US Fish and Wildlife Service has developed a programmatic biological opinion (PBO) in conjunction with the Federal Highway Administration (FHWA), the US Army Corps of Engineers (USACE), and NCDOT for the NLEB in eastern North Carolina. The PBO covers the entire NCDOT program in Divisions 1-8, including all NCDOT projects and activities. The programmatic determination for NLEB for the NCDOT program in Divisions 1-8 is “May Affect, Likely to Adversely Affect.” The PBO will provide incidental take coverage for NLEB and will ensure compliance with Section 7 of the Endangered Species Act for five years for all NCDOT projects with a federal nexus in Divisions 1-8, which includes Rockingham County, where the project is located. This level of incidental take is authorized from the effective date of final listing through April 30, 2020.~~

~~Project requirement for PBO compliance: After project completion, the contract administrator for construction must submit the actual amount of tree clearing reported in tenths of acres. This information should be submitted to the NCDOT Environmental Analysis Unit Biological Surveys Group.~~

The reporting of tree clearing acreage is no longer required.

*The US Fish and Wildlife Service (USFWS) has revised the previous programmatic biological opinion (PBO) in conjunction with the Federal Highway Administration (FHWA), the US Army Corps of Engineers (USACE), and NCDOT for the northern long-eared bat (NLEB) (*Myotis septentrionalis*) in eastern North Carolina. The PBO covers the entire NCDOT program in Divisions 1-8, including all NCDOT projects and activities. Although this programmatic agreement covers Divisions 1-8, NLEBs are currently only known in 19 counties, but may potentially occur in 11 additional counties within Divisions 1-8. NCDOT, FHWA, and USACE have agreed to two conservation measures which will avoid/minimize mortality of NLEBs. These conservation measures only apply to the 30-current known/potential counties shown on Figure 2 of the PBO at this time. The programmatic determination for NLEB for the NCDOT program is May Affect, Likely to Adversely Affect. The PBO will ensure compliance with Section 7 of the Endangered Species Act for 10 years (effective through December 31, 2030) for all NCDOT projects with a federal nexus in Divisions 1-8, which includes Rockingham County, where Project BR-0043 is located*

COMMITMENTS FROM PERMITTING

No special conditions developed from permitting.



North Carolina Department of Transportation
Highway Stormwater Program
STORMWATER MANAGEMENT PLAN
FOR NCDOT PROJECTS



(Version 3.00; Released August 2021)

WBS Element: 67043.1.1 TIP/Proj No: BR-0043 County(ies): Rockingham Page 1 of 2

General Project Information

WBS Element:	67043.1.1	TIP Number:	BR-0043	Project Type:	Bridge Replacement	Date:	10/26/2022
NCDOT Contact:	Tierre Peterson, PE			Contractor / Designer:	AECOM / Meme Buscemi, PE		
	Address:	1000 Birch Ridge Dr. Raleigh, NC 27610			Address:	5438 Wade Park Blvd. Suite 200 Raleigh, NC 27607	
	Phone:	919-707-6488			Phone:	919-854-6200	
	Email:	trpeterson@ncdot.gov			Email:	meme.buscemi@aecom.com	
City/Town:	Reidsville, NC			County(ies):	Rockingham		
River Basin(s):	Roanoke			CAMA County?	No		
Wetlands within Project Limits?	No						

Project Description

Project Length (lin. miles or feet):	0.4 miles	Surrounding Land Use:	Wooded / Residential					
	Proposed Project		Existing Site					
Project Built-Upon Area (ac.)	7.2	ac.	6.6	ac.				
Typical Cross Section Description:	Along -L-: 5-lane, concrete median, divided. Shoulder section with 12' lanes. Along -Y-: 4-lane, divided with shoulder, 6' median with cable guiderail. Shoulder section with 12' lanes.		Along -L-: 4-lane, concrete median, divided. Shoulder section with 12' lanes. Along -Y-: 4-lane, grassed median with cable guiderail. Shoulder section with 12' lanes.					
Annual Avg Daily Traffic (veh/hr/day):	Design/Future:	17,109	Year:	2043	Existing:	15,718	Year:	2023

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

The North Carolina Department of Transportation (NCDOT) is proposing to replace bridge 780151 on US 159/NC 14 over US 29 in Rockingham County due to structural deficiency. A new bridge will be constructed in the same location as the existing bridge using staged construction to maintain traffic on-site during construction. Bridge number 780151 is located in Rockingham County, and is part of the interchange that carries US 159/NC 14 over US 29. The land within the immediate vicinity of the project study area is largely wooded with residential parcels. The proposed drainage for the project consists of a combination of closed roadway drainage systems and grassed ditches. Ditch velocities are designed to be non-erosive for the Q10 storm. Existing drainage patterns were maintained to the best extent possible. Rip rap pads are utilized at all drainage system outfalls to prevent erosion and promote diffuse flow. One jurisdictional stream will be impacted on the north side of the project, off of US 29. Rip rap is being added as outlet stabilization for the site which consists of an existing 18" RCP that will be repaired. Permanent impacts at this site are due to the proposed rip rap pad. There are no existing wetlands present within project limits.



North Carolina Department of Transportation

Highway Stormwater Program
STORMWATER MANAGEMENT PLAN
FOR NCDOT PROJECTS

(Version 3.00; Released August 2021)

WBS Element: 67043.1.1

TIP/Proj No.: BR-0043

County(ies): Rockingham

Page 2 of 2

General Project Information

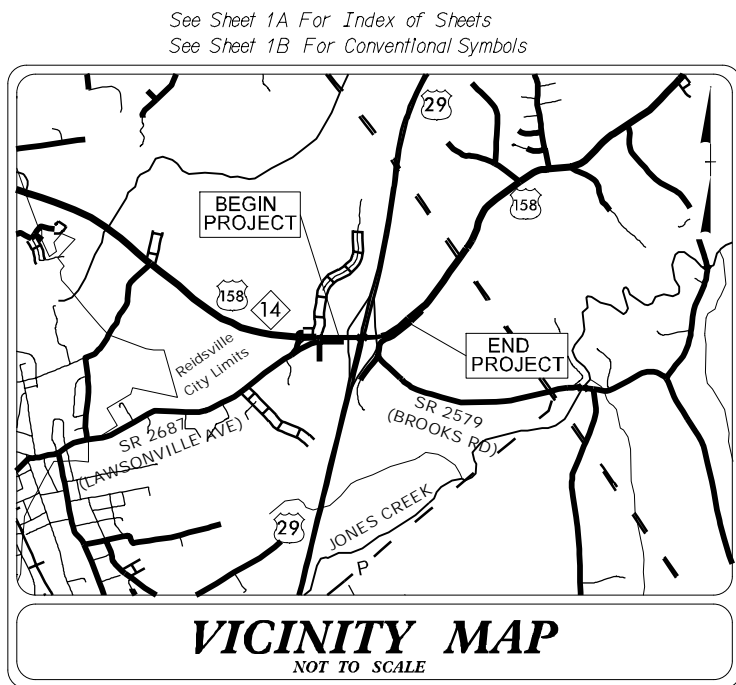
Waterbody Information

Surface Water Body (1):	UT to Lick Fork Creek		NCDWR Stream Index No.:	22-50-4	
NCDWR Surface Water Classification for Water Body	Primary Classification:		Class C		
	Supplemental Classification:				
Other Stream Classification:	None				
Impairments:	None				
Aquatic T&E Species?	No	Comments:			
NRTR Stream ID:	N/A		Buffer Rules in Effect:	N/A	
Project Includes Bridge Spanning Water Body?	No	Deck Drains Discharge Over Buffer?	N/A	Dissipator Pads Provided in Buffer?	
Deck Drains Discharge Over Water Body?	N/A	(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 (2):			NCDWR Stream Index No.:		
NCDWR Surface Water Classification for Water Body	Primary Classification:				
	Supplemental Classification:				
Other Stream Classification:					
Impairments:					
Aquatic T&E Species?		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)					
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?		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)					

10/10/2022
pw:\aecom-na-pw.bentley.com\AECOM_DS21_NA_2020\Documents\60581578-NCDOT SMU BR-0043\900-CAD GIS\910-CAD\70-NCDOT_TIP\Hydraulics\Permits_Environmental\Drawings\01_BR0043_prm_wet_ts
9/9/2022

CONTRACT:

TIP PROJECT: BR-0043



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

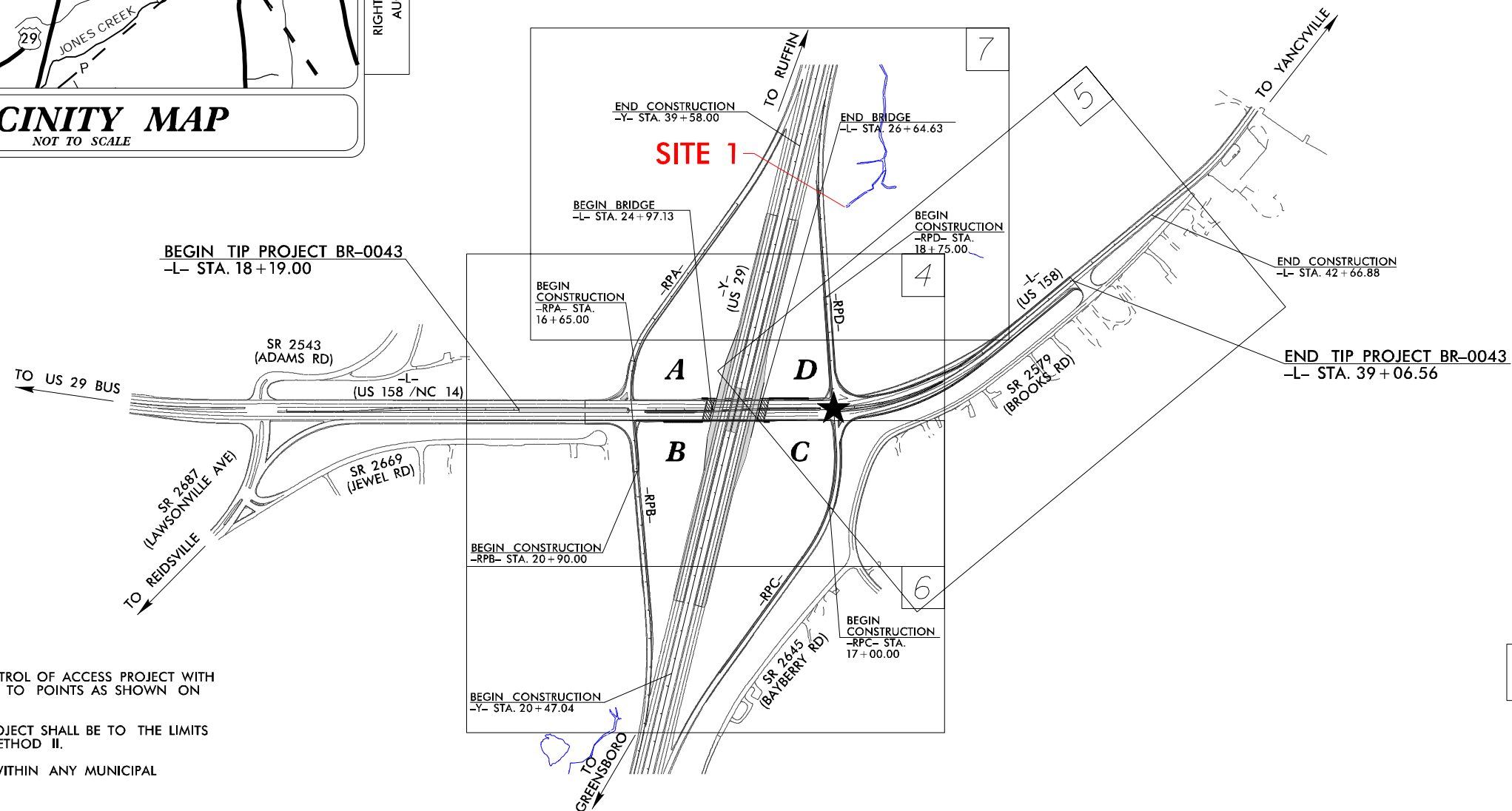
ROCKINGHAM COUNTY

**LOCATION: REPLACE BRIDGE 780151 ON US 158 /NC 14
OVER US 29 NEAR REIDSVILLE**

TYPE OF WORK: GRADING, DRAINAGE, PAVING, SIGNAL, AND STRUCTURE

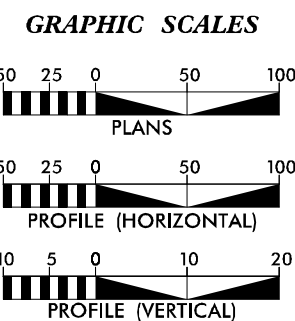
SURFACE WATER IMPACTS PERMIT

OCTOBER 2022



**PERMIT DRAWING
SHEET 1 OF 5**

★ UPGRADED SIGNAL
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



DESIGN DATA

ADT 2023 = 15,718
ADT 2043 = 17,109
K = 9 %
D = 55 %
T = 6 % *
V = 50 MPH
* TTST = 4% DUAL 2%
FUNC CLASS =
PRINCIPAL ARTERIAL
REGIONAL TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT BR-0043 = 0.363 MI
LENGTH STRUCTURE TIP PROJECT BR-0043 = 0.032 MI
TOTAL LENGTH TIP PROJECT BR-0043 = 0.395 MI

Prepared in the Office of:
AECOM
NC FIRM LICENSE No: F-0342
5438 Wade Park Blvd., Suite 200
Raleigh, NC 27607
(919) 461-1100

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
AUGUST 31, 2022

LETTING DATE:
APRIL 18, 2023

JOHN C. MORRISON, P.E.
PROJECT ENGINEER

TIMOTHY A. KLOTZ, P.E.
PROJECT DESIGN ENGINEER

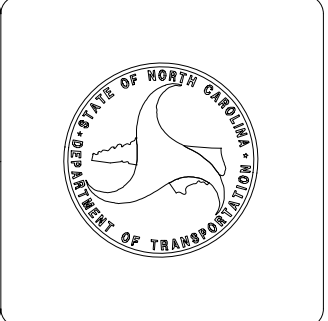
DAVID STUTTS, P.E.
NCDOT PROJECT MANAGER

HYDRAULICS ENGINEER

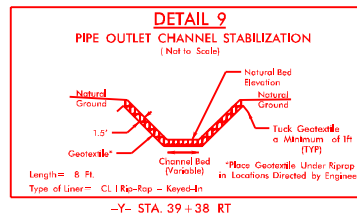
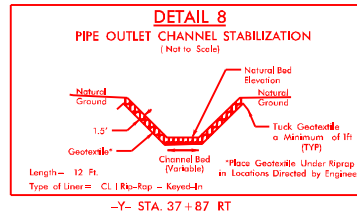
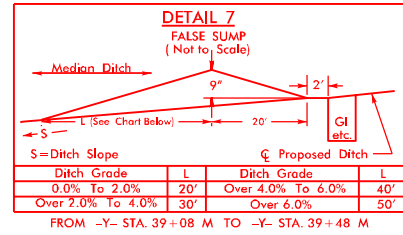
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ROADWAY DESIGN ENGINEER

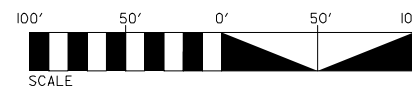
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PROJECT REFERENCE NO.	SHEET NO.
BR-0043	7
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
Prepared in the Office of: AECOM	
NC FIRM LICENSE NO. F-0342 5438 Wood Farm, Boulevard 5474, 200 Durham, NC 27709 (919) 854-6200 • (919) 854-6259(FAX)	
DOCUMENT NOT CONSIDERED FINAL WITHOUT ALL SIGNATURES COMPLETED	




PERMIT DRAWING
SHEET 2 OF 5



SITE 4

 DENOTES IMPACTS IN SURFACE WATER

 DENOTES TEMPORARY IMPACTS IN SURFACE WATER

2

CLARK M. HOLT, TRUSTEE
JOHN N. HESTER, III
DALEY ELISABETH SCOTT, ET ALS

OR 129 PG 41
LIFE ESTATE ORF 299
PB 30 PG 38

SITE 1

SURFACE WATER IMPACTS

SEE PERMIT DRAWING SHEET 4 OF 5 FOR ENLARGEMENT

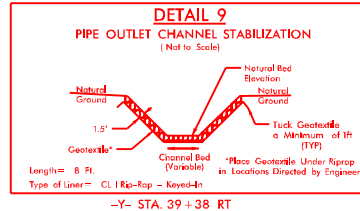
DALEY ELISABETH SCOTT, ET ALS
LIFE ESTATE OBE 299
DB 102 PG 1916
PB 30 PG 38


JOHN N. HESTER, III
DALEY ELISABETH SCOTT, ET ALS
DB 1312 PG 367
LIFE ESTATE OBE 299


MATCHLINE
-Y- STA. 34+50.00
SEE SHEET 4

MATCHLINE -RPD-
STA. 18+30.00
SEE SHEET 7

FOR -L- PROFILE SEE SHEET 6
FOR -Y_RT- PROFILE SEE SHEET 9
FOR -Y_LT- PROFILE SEE SHEET 10
FOR -RPD- PROFILE SEE SHEET 11



 DENOTES IMPACTS IN SURFACE WATER

 DENOTES TEMPORARY IMPACTS IN SURFACE WATER

2
CLARK M. HOLT, TRUSTEE
JOHN N. HESTER, III
DALEY ELISABETH SCOTT, ET ALS
DB J29 PG 41
LIFE ESTATE OF 299
PB 30 PG 38

SITE 1

SURFACE WATER IMPACTS

SEE PERMIT DRAWING SHEET 4 OF 5 FOR ENLARGEMENT

DALEY ELISABETH SCOTT, ET ALS
LIFE ESTATE OBE 299
DB 1012 PG 1916
PB 30 PG 38

JOHN N. HESTER, III
DALEY ELISABETH SCOTT, ET ALS
DB 132 PG 367
LIFE ESTATE OBE 299

RPA- MATCHLINE
 SEE STA. 13+50.00
 SHEET 4

MATCHLINE
 -Y- STA. 34+50.00
 SEE SHEET 4

MATCHLINE - RPD -
STA. 18+30.00
SEE SHEET 7

FOR -L- PROFILE SEE SHEET 6
FOR -Y_RT- PROFILE SEE SHEET 9
FOR -Y_LT- PROFILE SEE SHEET 10
FOR -RPD- PROFILE SEE SHEET 11

WETLAND AND SURFACE WATER IMPACTS SUMMARY

			WETLAND IMPACTS					SURFACE WATER IMPACTS				
Site No.	Station (From/To)	Structure Size / Type	Permanent Fill In Wetlands	Temp. Fill In Wetlands	Excavation in Wetlands	Mechanized Clearing in Wetlands	Hand Clearing in Wetlands	Permanent SW impacts	Temp. SW impacts	Existing Channel Impacts Permanent	Existing Channel Impacts Temp.	Natural Stream Design
			(ac)	(ac)	(ac)	(ac)	(ac)	(ac)	(ac)	(ac)	(ft)	(ft)
1	Y Sta. 37+87 to 38+01 RT	Outlet Stabilization Riprap						<0.01	<0.01	12	10	
TOTALS*:								< 0.01	< 0.01	12	10	

*Rounded totals are sum of actual impacts

NOTES:

NC DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

10/26/2022

Rockingham

BR-004

67043.1

SHEET

OF

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