

**From:** Alsmeyer, Eric C CIV USARMY CESAW (USA) <Eric.C.Alsmeier@usace.army.mil>  
**Sent:** Thursday, March 9, 2023 2:08 PM  
**To:** Euliss, Amy  
**Cc:** Sawicki (Gannett Fleming), Jeremy P; Matthews, Monte K CIV USARMY CESAW (USA)  
**Subject:** [External] RE: U-2579AB mod, Site 18; DA# SAW-2017-02112, Winston-Salem Northern Beltway\_Forsyth  
**Attachments:** Rev\_SITE 18 U-2579AB Forsyth Modification 2023-02-28.pdf; U-2579AB UC PLANS REVISED SHEET UC-15.pdf  
Amy:

Reference the Department of the Army (DA) permit issued on January 22, 2018, to the North Carolina Department of Transportation, (NCDOT) for impacts associated with the new location project identified as U-2579 C, Phase 2 and U-2579 D, E, & F. The project is a 6.95 miles, six-lane, divided facility, extending east from US 52 to US 311, near Winston Salem, Forsyth County, North Carolina. The project area contains unnamed tributaries to Mill Creek, Mill Creek, Trick-Um Creek, unnamed tributaries to Trick-Um Creek, an unnamed tributary to Ogburn Branch, Buffalo Creek, Rough Fork, unnamed tributaries to Rough Fork, unnamed tributaries to Frazier Creek, and sixteen (16) wetland areas in the Yadkin & Roanoke River Basins (8-Digit Cataloging Units 03040101 and 03010103, respectively). Also reference the North Carolina Department of Environmental Quality Water Quality Certification# 004131, dated December 21, 2017.

On 2/28/2023, the U.S. Army Corps of Engineers (Corps) received your request for a minor revision of the standard permit (Mod8) for the U-2579 DEF project, to permit additional impacts associated with the installation of a sewer line. At permit site 18, there is an existing 96" CMP that runs under a driveway that is no longer in use. The driveway is on the west side of Brookbend Road and runs parallel to existing I-40. The 96" pipe will be removed, and a sewer line would be installed under the streambed where the pipe currently sits. NCDOT would stabilize the stream within the footprint of the existing pipe by sloping the banks back at 2:1 and armoring both the bed and banks with class I riprap. The width of the restored channel would be approximately 8' and will match the width of the existing stream and the downstream stream relocation. The pipe removal and sewer line installation would result in 40' of permanent impacts that do not result in a loss of water and thus no mitigation required. NCDOT would dewater the stream while the pipe is being removed and the sewer line is installed. This would result in approximately 50' of temporary impacts to the stream.

The Corps has completed the evaluation of your request and has determined that it is appropriate and reasonable, and no public notice is required for this modification. Therefore, the permit is modified as requested, and described above, and as shown on the enclosed Revised Permit Drawing sheet 21, and Utility Plan sheet UC-15.

All conditions of the permit, including the permit expiration date of December 31, 2028, remain in effect as written.

This electronic copy is your official Department of the Army authorization; no paper copy will be mailed.

Please reply or call if you have any questions or if I may serve you in any other way. The Wilmington District is committed to providing the highest level of support to the public. To help us ensure we continue to do so, please complete the Customer Satisfaction Survey located at <https://regulatory.ops.usace.army.mil/customer-service-survey/>.

Eric

Eric Alsmeyer  
Project Manager

Regulatory Division Office  
US Army Corps of Engineers, Wilmington District  
3331 Heritage Trade Drive, Suite 105, Wake Forest, NC 27587  
Office Tel: (919) 554-4884, x23 (I am working out of the office most days of the week, but I try to check my voicemails daily)  
Regulatory Homepage: <http://www.saw.usace.army.mil/Missions/RegulatoryPermitProgram.aspx>



NORTH CAROLINA  
*Environmental Quality*

ROY COOPER  
*Governor*

ELIZABETH S. BISER  
*Secretary*

RICHARD E. ROGERS, JR.  
*Director*

**North Carolina Division of Water Resources  
Transportation Permitting Unit  
In-Field Minor 401 Water Quality Certification  
Modification**

March 9, 2023

Water Quality Certification No. 004131; Project No. 19980260  
DWR Staff: Dave Wanucha, Winston Salem Regional Office  
Project: Winston Salem Northern Beltway, Eastern Section; U-2579AB, Permit Site 18.  
DOT Division 9 in Forsyth County  
DOT Staff: Amy Euliss and Jeremy Sawicki  
ACE Staff: Eric Alsmeyer and Steve Brumagin

**Modification Description:**

The purpose of this modification is to obtain regulatory approval for additional impacts associated with the installation of a sewer line. At Permit Site 18, there is an existing 96" CMP that runs under a driveway that is no longer in use. The driveway is on the west side of Brookbend Road and runs parallel to existing I-40. The 96" pipe will be removed, and a sewer line will be installed under the streambed where the pipe currently sits. DOT will need to stabilize the stream within the footprint of the existing pipe by sloping the banks back at 2:1 and armoring both the bed and banks with Class I rip rap. The width of the restored channel will be approximately 8' and will match the width of the existing stream and the downstream stream relocation. The pipe removal and sewer line installation will result in 40' of permanent impacts that do not result in a loss of water and thus no mitigation required. DOT will need to dewater the stream while the pipe is being removed and the sewer line is installed. This will result in approximately 50' of temporary impacts to the stream.

**Modification Sketch:**

Next Page. Sketch on next page is a section of Permit Drawing Sheet 63 of 78 of U-2579AB.



North Carolina Department of Environmental Quality | Division of Water Resources  
512 North Salisbury Street | 1611 Mail Service Center | Raleigh, North Carolina 27699-1611  
919.707.9000



2579AB Winston Salem Northern Beltway Eastern Section from I-40 Business/US 421 to I-40. Any further changes to the original Water Quality Certification dated January 10, 2022 (revision 8) may require a formal written modification request.

The description of the proposed action provides adequate assurance that the proposed action in the Yadkin Pee Dee 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 Section 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. Should your project change, you are required to notify the DWR 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 conditions. 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 Modification Approval shall expire on the same day as the expiration date of the corresponding Corps of Engineers Permit.

**Conditions(s) of Modification Approval:**

1. All the authorized action activities and conditions of the certification associated with the original Water Quality Certification dated November 14, 2017, for WQC004131 and all other corresponding modifications still apply except where superseded by this Certification.
2. Additional Conditions: There are none.

Failure to construct the proposed action as described in the Modification Description and Sketch above of this document and/or violations of any condition herein set forth may result in revocation of this modification approval and may result in criminal and/or civil penalties. This modification approval shall become null and void unless the above conditions are made conditions of the Federal 404 and/or Coastal Area Management Act Permit. If the Corps of Engineers requires a formal written modification to the 404 permit for the proposed action, the NC DWR must require a formal written modification to the 401 WQC, and therefore, this in-field modification is invalid. If additional stream impacts for this project (now or in the future) exceed 300 linear feet or if mitigation is required above and beyond the current mitigation requirement for this project, this in-field modification is invalid and a formal written modification is required.

This in-field modification is effective upon the date the last party signs this document. This in-field modification is made upon mutual agreement between DOT and DWR as indicated by the signatures below and is, therefore, not subject to appeal by either party. Appeals by third parties must be made within sixty (60) days of notification pursuant to the contested case provisions of the Administrative Procedure Act, NC Gen. Stat. §150B-23 et seq.

DWR Staff Signature:  \_\_\_\_\_  
Date: 3/9/2023 89736FD146FE4AD...

DOT Staff Signature: \_\_\_\_\_  
Date: \_\_\_\_\_

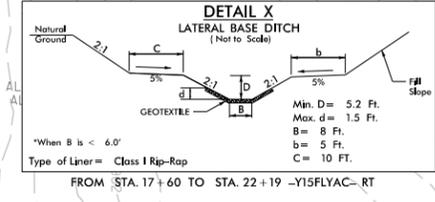
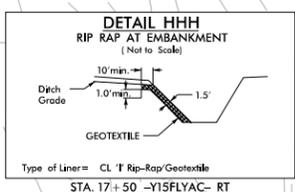
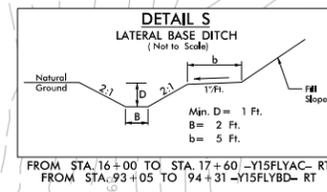
Note: This in-field modification is valid only if issued by an authorized agent of the Division of Water Resources, Transportation Permitting Unit. An authorized agent of the Transportation Permitting Unit is defined as DWR staff that are DOT-funded and review/issue 401 Water Quality Certifications for DOT projects. These staff include Central Office and Regional Office personnel.



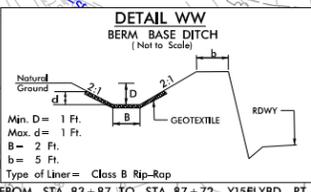
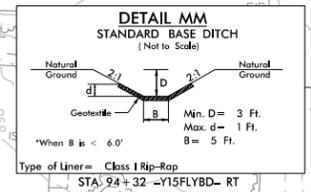
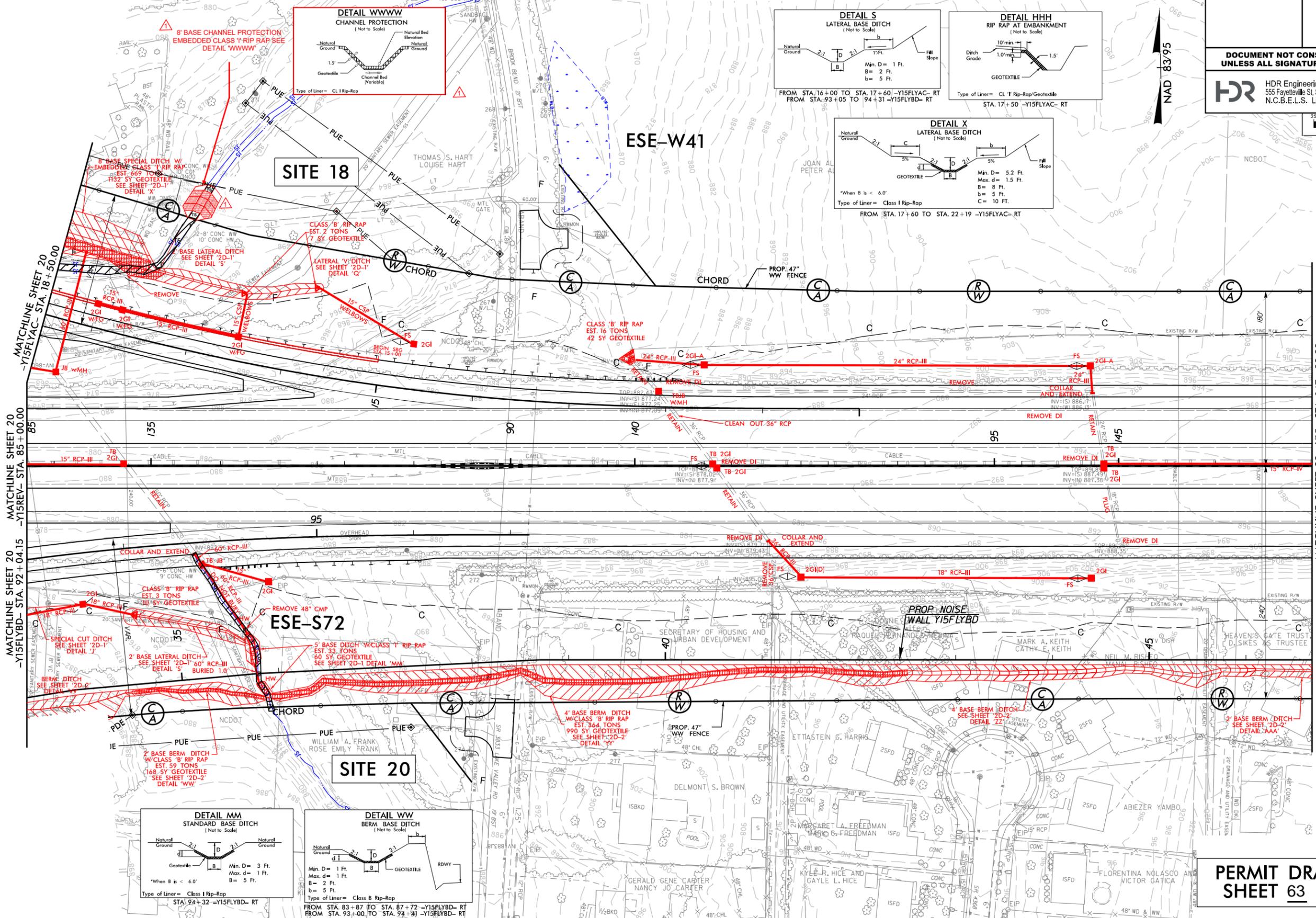
PROJECT REFERENCE NO.	SHEET NO.
U-2579AB	21
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>INCOMPLETE PLANS</b> DO NOT USE FOR R/W ACQUISITION	
<b>DOCUMENT NOT CONSIDERED FINAL</b> UNLESS ALL SIGNATURES COMPLETED	
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	

### LEGEND:

-  DENOTES IMPACTS IN SURFACE WATER
-  DENOTES TEMPORARY IMPACTS IN SURFACE WATER



### FIDDLERS CREEK (ESE-S25)



**PERMIT DRAWING**  
**SHEET 63 OF 78**

PLOT DRIVER: NCDOT\_color\_eng\_100.plt  
 USER: NIMOWACK  
 DATE: 10/5/2020  
 TIME: 10:34:21 AM  
 FILE: NCDOT\NCDOT-U2579AB\6.0.CAD.BTM\6.2.WorK.In\_Progress\U-2579AB\Hydr\culcs\PERMITS.Environmental\Dr\wings\U2579AB\_PRM\_PSH.dgn  
 REVISIONS  
 ROW REV. - OCTOBER 14, 2019 - UPDATED STATION OFFSET CALL OUTS DUE TO DESIGN CHANGE TO -Y15FLYBD- FROM STATION 70+00 TO 92+19. JHG

**WETLAND PERMIT IMPACT SUMMARY**

Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS					SURFACE WATER IMPACTS				
			Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
16	Y15 64+60 RT	54" RCP-III						< 0.01	< 0.01	44	26	
16A	Y15FLYCA 28+70 LT	BANK STABILIZATION						< 0.01	< 0.01	33	10	
16A	Y15FLYCA 28+80 CL	54" RCP-III						0.02	< 0.01	170	10	
17	Y15REV 30+00	8' x7' RCBC						0.03		427		
17	Y15REV 30+00	CHANNEL PROTECTION						< 0.01		35		
17A	Y15REV 30+00 RT	8' x7' RCBC	0.06									
17B	Y15REV 30+50 RT	8'x7' RCBC	0.09									
17C	Y15REV 30+50 RT	8' x7' RCBC	0.03									
18	Y15FLYAC 25+93 - 29+16 RT	ROADWAY FILL						0.16	0.02	900	102	
18	Y15FLYAC 25+93 - 29+16 RT	BANK STABILIZATION						< 0.01	< 0.01	44	11	
19	Y15FLYAC 28+72 RT	ROADWAY FILL						< 0.01		80		
19	Y15 124+35 LT	4' BASE DITCH						< 0.01		50		
19	Y15 124+40 LT	48" RCP-III						< 0.01		14		
19	Y15 125+82 RT	48" RCP-III						< 0.01		16		
19	Y15 126+00 RT	4' BASE DITCH						< 0.01		65		
19	Y15FLYBD 83+80 RT	48" RCP-III						< 0.01		18		
19	Y15FLYBD 83+85 RT	CHANNEL PROTECTION						< 0.01	< 0.01	6	6	
20	Y15FLYBD 93+75	60" RCP-III						0.01		100		
20	Y15FLYBD 94+22, 94+45	5' BASE DITCH						< 0.01	< 0.01	55	10	
20	Y15FLYBD 94+25	60" RCP-III						< 0.01		20		
21	Y15 149+41 - 154+60 LT	ROADWAY FILL						0.48	< 0.01	548	10	
21	Y15 157+53 - 159+59 RT	ROADWAY FILL						0.02	< 0.01	180	50	
22	Y4RPB 20+55 RT	2' BASE DITCH						< 0.01		67		
18	Y15FLYAC 25+93 - 29+16 RT	SEWER INSTALLAION AND CHANNEL PROTECTION								40	50	
TOTALS*:			0.18					0.78	0.04	<del>2872</del>	<del>235</del>	

2912      285

\*Rounded totals are sum of actual impacts

NOTES:

NC DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 07/02/2021  
 FORSYTH COUNTY  
 U-2579AB  
 34839.1.8