



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

J. ERIC BOYETTE
SECRETARY

July 24, 2020

U.S. Army Corps of Engineers
Raleigh Regulatory Field Office
3331 Heritage Trade Drive, Suite 105
Wake Forest, NC 27587

Attn: Mr. Eric Alsmeyer
NCDOT Coordinator

Subject: **Modification Request for Section 404 Individual Permit, Section 401 Water Quality Certification and Neuse Riparian Buffer Authorization** for Interstate 40 Widening and Improvements from I-440/US 64 (Exit 301) to just north of SR 1525 (Cornwallis Road), including improvements to NC 42 and SR 1010 (Cleveland Road) in Wake and Johnston Counties, Federal Aid Project No. IMNHF-040-4(139)301; TIP Numbers I-5111 and I-4739, Division 5. Debit \$570 from WBS Element 42346.3.1.

Dear Mr. Alsmeyer:

As you are aware, the North Carolina Department of Transportation (NCDOT) applied for permits for the subject project on May 7, 2019 and a modification on May 28, 2020. The Corps of Engineers issued the Section 404 permit for the project on September 6, 2019 and June 11, 2020, respectively. The North Carolina Division of Water Resources issued the 401 Water Quality Certification for the project on July 10, 2019 (NCDWR Project No. 20190593) and June 3, 2020, respectively.

A field revision is being requested at Site 44. Currently, stream SEQ is piped from the east side of I-40 to the west side, travels along the west side of I-40 for approximately 80 feet, then is piped back to the east side. The original design kept the drainage pattern by boring a new 54" steel pipe to the west side of I-40 and then extending the existing 60" pipe to convey SEQ back to the east side. The new design proposes to install a pipe along the east side of I-40 that outlets to the same 60" pipe, thus eliminating the need to bore a new 54" steel pipe. The 60" pipe will still be extended to convey any drainage from the west side to the east as well as to act as an equalization pipe.

This modification will not result in additional surface water impacts as the entire SEQ channel on the west side of I-40 was being relocated and considered fully impacted. Further, by eliminating the channel relocation, changes to jurisdictional impacts are as follows:

- -0.013 ac of wetland fill
- -0.043 ac wetland excavation
- -0.031 ac of temporary fill
- +765 ft² of impacts to Buffer Zone 2 through abandoning the channel

MAILING ADDRESS:
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1598 MAIL SERVICE CENTER
RALEIGH NC 27699-1598

TELEPHONE: 919-707-6000
FAX: 919-212-5785
WEBSITE: NCDOT.GOV

LOCATION:
CENTURY CENTER, BUILDING A
1000 BIRCH RIDGE DRIVE
RALEIGH NC, 27610-4328

When recalculating the impacts for Site 44, it became apparent that the wetland impacts had been erroneously reported in the initial application. They have been corrected on the attached revised impact summary sheets.

Attached are revised permit drawings depicting the affected area, all of which have a revision date of either 7/2/2020 or 7/15/2020. These include the following:

- Permit Drawing 91: plansheet 42 without contours
- Permit Drawing 92: plansheet 42 with contours
- Permit Drawing 93: plansheet 42 profile
- Permit Drawing 124: impact summary table
- Permit Drawing 125: impact summary table
- Buffer Drawing 42: plansheet 42 without contours
- Buffer Drawing 51: buffer summary table
- Buffer Drawing 52: buffer impact summary table

Compensatory Mitigation

NCDOT will request the appropriate additional riparian buffer mitigation from the N.C. Division of Mitigation Services.

REGULATORY APPROVALS

Section 404: NCDOT requests modification to the USACE Individual 404 Permit for the project as required for the above described activities.

Section 401: We are also requesting modification of the Section 401 Individual Water Quality Certification and Neuse Riparian Buffer Authorization from NCDWR. We are providing this request to NCDWR, for their approval. Authorization to debit the \$570.00 Permit Application Fee from WBS 42346.3.1 is hereby given.

A copy of the permit modification request and its distribution list will be posted at <https://xfer.services.ncdot.gov/pdea/PermApps/>.

If you have any questions or need additional information, please contact Gordon Cashin at gcashin@ncdot.gov or 919-707-6107.

Sincerely,

DocuSigned by:

Mack C. Rivenbark III

AAAD1248B309416...

for Philip S. Harris, III, P.E., C.P.M.
Environment Analysis Unit Head

cc: NCDOT Permit Application Standard Distribution List

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**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

REVISÉ 07/15/2020



WETLAND AND SURACE 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)
39A	-L- 98+30-99+62 LT	ROADWAY FILL - WEM	0.07			0.02						
39B	-L- 101+93-102+66 LT	ROADWAY FILL - WEM	0.01			0.01						
40	-L- 103+59-104+95 LT & RT	BANK STABILIZATION - SDG						0.14	< 0.01	334	10	
41	-L- 107+69-109+35 LT	ROADWAY FILL - WEP(1)				0.02						
42	-L- 104+95-108+09 RT	ROADWAY FILL - SDN, WEN	0.29	0.01		0.05		0.02		200		
43	-L- 110+24-110+66 RT	ROADWAY FILL - SEO							< 0.01		40	
44	-L- 111+78-114+64 LT & RT	60" RCP, ROADWAY FILL- SEQ, WEO(1)	0.03			0.01		0.02		269		
	-L- 111+58-111+85 LT	BANK STABILIZATION - SEQ						< 0.01	< 0.01	16	11	
45	-L- 144+01-144+56 LT	48" CSP - SEU						0.01		154		
	-L- 143+75-144+08 LT	BANK STABILIZATION - SEU						< 0.01	< 0.01	40	11	
46	-L- 164+25-164+78 RT	30" CSP / 36" RCP - SEA, WOE	0.02					0.01		168		
47	-Y1RPA- 16+63-17+14 RT	54" CSP - SLV						< 0.01		62		
	-Y1RPA- 16+58-16+65 RT	BANK STABILIZATION - SLV						< 0.01	< 0.01	45	11	
48	-Y1RPA- 16+66-17+11 RT	ROADWAY FILL, RIPRAP - SLW						< 0.01	< 0.01	14	51	
49	-L- 171+49-174+67 LT & RT	66" WSP / 66" RCP - SLU, WC, WOB	0.06					0.03		284		
	-L- 171+40-174+63 LT & RT	BANK STABILIZATION - SLU						< 0.01	< 0.01	64	30	
50	-LCDWB- 64+67-68+61 LT & RT	60" CSP, CHANNEL CHANGE - SLS,WOA	0.05	0.02				0.06	< 0.01	588	57	
51	-Y2RPA3- 23+20-23+82 LT	ROADWAY FILL - WNZ	0.02									
	-Y2RPA3- 20+23-23+20	ROADWAY FILL - PBL						0.58				
	-L- 199+51-205+31	ROADWAY FILL, 66" RCP - SLR						0.02		230		
	-Y2RPD3- 15+76-16+19 LT	BANK STABILIZATION- SLR						< 0.01	< 0.01	55	15	
52	-Y2RPD3- 23+65-24+43 LT	DITCH, ROADWAY FILL - WGG		0.01		0.02						
53	-L- 210+53-215+65 LT	54" RCP / 66" RCP - MILL BRANCH						0.06	< 0.01	401	7	
	-L- 210+21-210+61 RT	BANK STABILIZATION - MILL BRANCH						< 0.01	< 0.01	29	17	
TOTALS*:			0.54	0.05		0.14		0.98	0.03	2953	260	0
*Rounded totals are sum of actual impacts												
NOTES:												
REVISED 08/28/2019, 12/12/19, 7/2/20												
NC DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS JULY 2020 WAKE AND JOHNSTON I-5111_I-4739												
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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)
54	-L- 232+69-233+35 LT	54" WSP - SJ, WI	0.06					< 0.01		82		
	-L- 233+33-233+44 LT	BANK STABILIZATION - SJ						< 0.01	< 0.01	45	10	
55	-L- 233+94-234+19 LT	48" RCP - SK, WJ	< 0.01					< 0.01		78		
	-L- 234+02-234+11 LT	BANK STABILIZATION - SK						< 0.01	< 0.01	40	10	
56	-L- 246+22-246+77 RT	CHANNEL CHANGE - SEE						< 0.01	< 0.01	102	10	
57	-L- 246+73-247+65	60" WSP - SDD, WFF	0.01					0.02	< 0.01	238	10	
	-L- 247+59-247+78 LT	BANK STABILIZATION - SDD						< 0.01	< 0.01	55	9	
58	-L- 269+75-270+63 LT	36" WSP - SQ						< 0.01		100		
	-L- 270+58-270+85 LT	BANK STABILIZATION - SQ						< 0.01	< 0.01	33	27	
TOTALS*:			0.09					0.06	< 0.01	773	76	0
PROJECT TOTALS*:			0.77	0.14	0.07	0.17		1.55	0.22	7665	1582	

NOTES:
*Rounded totals are sum of actual impacts

REVISED 08/28/2019, 12/12/19, 4/22/20, 7/2/20

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
JULY 2020
WAKE AND JOHNSTON
I-5111_I-4739

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RIPARIAN BUFFER IMPACTS SUMMARY													
			IMPACTS									BUFFER REPLACEMENT	
Site No.	Station (From/To)	Structure Size / Type	TYPE			ALLOWABLE			MITIGABLE				
			ROAD CROSSING	BRIDGE	PARALLEL IMPACT	ZONE 1 (ft²)	ZONE 2 (ft²)	TOTAL (ft²)	ZONE 1 (ft²)	ZONE 2 (ft²)	TOTAL (ft²)	ZONE 1 (ft²)	ZONE 2 (ft²)
39	ONLY IN PERMIT SET												
40	-L- 99+00-107+44 LT & RT	BRIDGE		X		14449	7030	21479	1104	2993	4097		
41	ONLY IN PERMIT SET												
42	-L- 106+42-107+44 RT	ROADWAY FILL - SDN, WEN			X				7169	5126	12295		
43	-L- 109+63-114+04 RT	ROADWAY FILL - SEO			X				7471	4557	12028		
44	-L- 110+99-115+29 LT & RT	60" RCP- SEQ, WEO(1)	X						12849	6826	19674		
45	-L- 143+25-145+12 LT	48" CSP - SEU	X						11384	6539	17923		
46	-L- 164+25-164+78 RT	30" CSP / 36" RCP - SEA, WOE	X						10987	7345	18332		
47	-Y1RPA- 16+15-17+72 RT	54" CSP - SLV	X			5350	2012	7362					
48	ONLY IN PERMIT SET												
49	-L- 170+95-175+40 LT & RT	66" WSP / 66" RCP - SLU, WC, WOB	X						20163	9924	30087		
50	-L- 178+00-184+97 LT&RT	60" CSP, CHANNEL CHANGE - SLS,WOA	X						38684	25634	64318		
51	-L- 199+51-205+31	ROADWAY FILL, 66" RCP - SLR, WNZ	X						17316	9930	27247		
52	ONLY IN PERMIT SET												
53	-L- 209+51-217+29 LT & RT	54" RCP / 66" RCP - MILL BRANCH	X						27804	17778	45582		
54	-L- 232+37-234+37 LT	54" WSP - SJ, WI, WJ	X			8694	5213	13907					
55	ONLY IN PERMIT SET												
56	ONLY IN PERMIT SET												
57	-L- 246+11-248+25 LT & RT	60" WSP - SDD, WFF	X						15680	9394	25074		
58	-L- 269+75-270+63 LT	36" WSP - SQ	X						10972	7749	18721		
TOTALS*:						28492	14255	42747	181583	113795	295378	0	0

PROJECT TOTALS*:						116816	55819	172635	301854	167711	469565	0	0
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NOTES:

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
JULY 2020
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42346.3.1
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REVISED 8/28/2019
12/12/2019
7/2/2020

WETLANDS IN BUFFER IMPACTS SUMMARY

			WETLANDS IN BUFFERS	
SITE NO.	STATION (FROM/TO)		ZONE 1	ZONE 2
			(ft ²)	(ft ²)
42	-L- 106+08-107+45 RT		2367	3001
43	-L- 109+63-111+26 RT		1618	840
44	-L- 113+34-114+92 RT		3110	2145
49	-L- 174+33 RT		1439	
50	-L- 183+49 RT		680	
54	-L- 232+68-234+16 LT		1926	902
57	-L- 246+36-246+93 LT		379	204
TOTAL:			11519	7092
PROJECT TOTALS:			20436	7986

REVISED 8/28/19
7/2/20

ARTMHI VGEWHAETOFEGVA I OGEVEXOA
M4Y Y0AT0FTS Y3 S6 V.
K/J. TIUIU
6 VLHDTKOSA EOA
Y5PPPOTY-27N9
21N2CNDP
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