



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

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GOVERNOR

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SECRETARY

February 23, 2015

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

ATTN: Mr. Dave Bailey
NCDOT Coordinator

SUBJECT: **Request for Modification to the Section 404 Individual Permit and Section 401 Water Quality Certification** for the proposed Greensboro Eastern Loop from US 70 Relocation to SR 2303 (Lawndale Drive), Guilford County, Division 7. WBS Element No. 34821.1.1, TIP Nos. U-2525B and U-2525C.

REFERENCE: USACE Individual Permit Action ID SAW-2005-21386, dated April 15, 2014.
USACE Individual Permit Modification Action ID SAW-2005-21386, dated October 31, 2014.
USACE Individual Permit Modification Action ID SAW-2005-21386, dated December 4, 2014.
NCDWR Project No. 20130918, Certification No. 3978, dated February 6, 2014.
NCDWR Project No. 20130918_v2, Modification to Certification No. 3978, dated June 24, 2014.
NCDWR Project No. 20130918_v3, Modification to Certification No. 3978, dated October 15, 2014.
NCDWR Project No. 20130918_v4, Modification to Certification No. 3978, dated December 11, 2014.

Dear Sir:

The purpose of this letter is to request a modification to the United States Army Corps of Engineers (USACE) Individual Permit and North Carolina Division of Water Resources Certification for the above referenced project. The NCDOT is submitting for approval the installation of temporary stream crossings for the purpose of providing access for the construction of two bridge structures over Buffalo Creek at approximate Sta. 143+00 L (Permit Site 37), resulting in 200 linear feet (100 linear feet per crossing) of temporary stream impacts. One of the temporary crossings may have to be relocated further upstream of the proposed bridge but will still have the same linear feet of impact. Without a stream crossing, there is no way to access the area adjacent to the bridges between the South embankment and Buffalo Creek, a distance of over 500 feet. (please refer to the attached Permit Drawing Sheet 38A of 93). Table 1 has been revised to reflect the new Permit Site 37.

The proposed piped crossing has been detailed to accommodate normal low to moderate flow of Buffalo Creek and allow overtopping with the occurrence of larger rainfall events. Upon completion of bridge

Table 1. Revised U-2525B Stream Impacts (Final)

Permit Site No.	Stream Name/JD Packet ID	I/P Flow Status	Impact Type	Permanent Impacts (ft)	Impacts requiring USACE mitigation (ft)	USACE Mitigation Ratio ¹	Impacts requiring NCDWR mitigation (ft)	Temp Impacts (ft)
1	UT to South Buffalo Creek/SAF	P	Fill	1352	1352	2:1	1352	0
		I	Fill	332	332	1:1	0 ³	0
4	UT to South Buffalo Creek/SAE	P	Fill	394	394	2:1	394	153
			BS	98	0 ²	n/a	98	0
5	UT to South Buffalo Creek/SAD	P	Fill	1598	1598	2:1	1598	20
6	UT to South Buffalo Creek/SAG	I	Fill	138	138	1:1	0 ³	10
9	UT to North Buffalo Creek/SAA	P	Fill	462	462	1:1	462	10
9A	UT to North Buffalo Creek/SAJ	I	Fill	84	84	1:1	0 ³	0
10	UT to North Buffalo Creek/SZ	P	Fill	212	212	2:1	212	29
			BS	97	0 ²	n/a	97	0
11	UT to North Buffalo Creek/SY	P	BS	18	0 ²	n/a	0 ⁴	0
12	UT to North Buffalo Creek/SX	P	Fill	286	286	2:1	286	22
			BS	30	0 ²	n/a	30	0
13	UT to North Buffalo Creek/SW	P	Fill	137	137	2:1	0 ⁴	7
			BS	10	0 ²	n/a	0 ⁴	0
		I	Fill	32	0 ⁵	n/a	0 ³	0
14	UT to North Buffalo Creek/SV	I	Fill	347	347	1:1	0 ³	35
			BS	10	0 ²	n/a	10	0
15	UT to North Buffalo Creek/SU	P	Fill	292	292	2:1	292	26
			BS	20	0 ²	n/a	20	0
16	UT to North Buffalo Creek/SS	P	Fill	382	382	1:1	382	43
			BS	12	0 ²	n/a	12	0
17	UT to North Buffalo Creek/SR	I	Fill	51	51	1:1	0 ³	20
18	UT to North Buffalo Creek/SQ	P	Fill	241	241	2:1	241	20
			BS	30	0 ²	n/a	30	0

Table 1. Revised U-2525B Stream Impacts (Final) continued

Permit Site No.	Stream Name/JD Packet ID	I/P Flow Status	Impact Type	Permanent Impacts (ft)	Impacts requiring USACE mitigation (ft)	USACE Mitigation Ratio ¹	Impacts requiring NCDWR mitigation (ft)	Temp Impacts (ft)
20	UT to North Buffalo Creek/SL	P	Fill	815	815	2:1	815	49
20A	UT to North Buffalo Creek/SL	P	Fill	236	236	1:1	236	29
20B	UT to North Buffalo Creek/SM	P	Fill	29	29	2:1	0 ⁴	0
21	UT to North Buffalo Creek/SI	P	Fill	374	374	2:1	374	10
22A	UT to North Buffalo Creek/SK	I	Fill	142	142	1:1	0 ³	10
			BS	10	0 ²	n/a	0 ³	0
25	UT to North Buffalo Creek/SO	I	Fill	12	12	1:1	0 ³	10
			BS	12	0 ²	n/a	0 ³	0
26	UT to North Buffalo Creek/SI	P	Fill	319	319	2:1	319	11
			BS	12	0 ²	n/a	12	0
27	UT to North Buffalo Creek/SH	I	Fill	215	215	1:1	0 ³	10
28	UT to North Buffalo Creek/SH	I	Fill	461	461	1:1	0 ³	0
29	UT to UT at Camp Herman/SF	P	Fill	290	290	2:1	290	4
			BS	10	0 ²	n/a	10	0
31	UT to UT at Camp Herman /SD	P	Fill	191	191	2:1	191	27
			BS	21	0 ²	n/a	21	0
32A	UT to UT at Camp Herman/SB	P	Fill	151	151	2:1	151	25
			BS	28	0 ²	n/a	28	0
33	UT to UT at Camp Herman/SC	I	Fill	115	115	1:1	0 ³	10
			BS	17	0 ²	n/a	0 ³	0
35	UT to UT at Camp Herman/SF	P	Fill	120	120	2:1	120	17
			BS	10	0 ²	n/a	10	0
36	UT to North Buffalo Creek/SM	P	Fill	101	101	2:1	0 ⁴	21
			BS	10	0 ²	n/a	0 ⁴	0
37	Buffalo Creek	P	Fill	0	0	n/a	0	200
TOTALS (ft)				10,366	9,879		8,083	828

Notes: P = Perennial; I = Intermittent; BS = Bank Stabilization; n/a = not applicable. ¹Determined from USACE during verification site visits on October 10, 2012, December 6, 2012, and January 29, 2013. ²Mitigation for bank stabilization not required by USACE. ³Intermittent streams grandfathered from NCDWR mitigation. ⁴Mitigation not required by NCDWR (less than 150 linear feet of stream). ⁵Stream deemed unimportant by the USACE requiring no mitigation.

construction, the crossing will be completely removed, stream banks replaced and permanent vegetation established. Attached are the new Permit Drawing Sheet 38A of 93 and Revised Permit Drawing Sheet 93 of 93.

A copy of this permit modification application and its distribution list will be posted on the NCDOT website at <https://connect.ncdot.gov/resources/Environmental/Pages/default.aspx>. Thank you for your time and assistance with this project. Please contact Greg Price at either gwprice@ncdot.gov or (919) 707-6148 if you have any questions or need additional information.

Sincerely,


A handwritten signature in black ink, appearing to read 'R. Hancock', is written over a horizontal line.

rs Richard W. Hancock, P.E., Manager
Project Development and Environmental Analysis Unit

Cc: NCDOT Permit Application Standard Distribution List

