

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

PAT L. MCCRORY
GOVERNOR

July 3, 2013

ANTHONY J. TATA
SECRETARY

U. S. Army Corps of Engineers Regulatory Field Office 151 Patton Avenue, Room 208 Asheville, NC 28801-5006

ATTN: Ms. Sarah Hair NCDOT Coordinator

Dear Madam:

Subject: Post Field Meeting Addendum to March 22, 2013 Request for Modifications to the

Section 404 Individual Permit and Section 401 Water Quality Certification for

I-485. Division 10, TIP's R-2248 E and R-2123 CE, Debit \$570 from WBS 34410.3.GV2

Reference: Request for Modification to the Section 404 IP and 401 WQC for I-485 dated

March 22, 2013.

USACE Individual Permit Action ID SAW-2011-01237, dated Nov.22, 2011. NCDWQ Water Quality Certification No. 003868, dated October 14, 2011.

NCDOT Modification Application dated June 4,2012

NCDWO Water Quality Certification Modification dated Jun 21, 2012

During a site visit with the US Army Corps of Engineers, Division of Water Quality, and Division 10 Construction staff on April 15, 2013, the following changes were noted which amend the modification request dated March 22, 2013. These changes occur to wetland impacts on the R-2248 E, Yadkin River Basin section of the Charlotte Outer Loop Project in Mecklenburg County. Revised Permit Drawings Sheets are attached to this letter.

Site 12 – Sewer Line Impact Changes

The sewer line utility impacts depicted on the March 22, 2013 modification request are not required, as the new sewer line was able to tie back into the existing line at an earlier junction. Impacts will not change at this site. The previous drawing (dated March 2012), submitted with the June 2012 modification request, is accurate for this site (see attached Permit Drawing Sheet 53 of 108).).

WERSITE'NCDOT GOV

LOCATION:

<u>Site 13 – Water Line Impact Changes (non-riparian wetlands)</u>

The newly described 16-inch water line from the March 22, 2013 modification request is being placed closer to the roadway in an area designated as "mechanized clearing" rather than a new impact of "excavation". Therefore, the request from the March 22, 2013 for additional mitigation of 0.09 acre of mechanized clearing (from 0.03 to 0.12 acre), and 0.03 acre of excavation (0.0 to 0.03 acre), will no longer be required. The impact will revert back to the previous amounts accounted for in the November 2011 permit, of 0.03 acre of mechanized clearing and no excavation. The drawing has been revised to depict the permanent fill, and included in this modification request (see attached Permit Drawings Sheet 45 of 108).

See below the impacts and mitigation summary for the R-2248E section from the November 2011 Permit:

R-2248E – Yadkin and Catawba River Basins (no requested changes to the Catawba permit sites):

Catawba River Basin Impacts

0.655 acre wetland -0.48 (previous mitigation on project) = 0.17 acre wetland

899 linear feet stream -348 (previous mitigation on project) =551

Mitigation proposed = 0.34 acre wetland and 1102 linear feet stream

Permit Mitigation required = 0.34 acre wetland and 1102 linear feet stream

Yadkin River Basin Impacts

6.22 acre riparian wetland and 0.42 acre non-riparian wetland

7257 - 407 feet (bank stabilization) – 50 feet (day-lighting stream) = 6800 linear feet

Wetland mitigation proposed = 12.44 acre riparian wetland and 0.84 acre non-riparian wetland Stream mitigation proposed = 13,600 linear feet stream

Permit Mitigation required = 13.28 acre riparian wetland and 0.84 acre non-riparian wetland and 13,600 linear feet stream

Mitigation requirement is 0.84 acre riparian wetland over the normal requirement – this was due to incorrectly adding the riparian wetland amount to the non-riparian wetland amount and also having a separate non-riparian requirement (see the April 21, 2011 EEP letter). Mitigation requirement for these wetland impacts should have been 12.44 acre riparian and 0.84 non-riparian (for 6.22 acre and 0.42 acre impacts @ 2:1)

R-2248E Yadkin River Basin Impact Changes:

	Wetlands	Streams			
	Riparian Wetland Fill (acre)	Permanent (linear feet)	BS (linear feet)		
Site 5		+36	-12		
Site 6		-276	-36		
Site 8		-100			
Site 9		-32			
Site 14	-0.021*		-35		
Totals	-0.021*	-372	-83		

^{*}This is the only change for wetlands in the March 2013 modification.

According to the current USACE mitigation requirements, the EEP has provided the following:

- 0.34 acres riparian wetland mitigation and 1,102 linear feet of stream mitigation in the Catawba River Basin
- 16.44 acres riparian wetland and 0.84 acres non-riparian wetland mitigation and 24,878 linear feet of stream channel mitigation in the Yadkin River Basin

R-2248E - Summary of Impact Changes and Proposed Mitigation

	Riparian Wetland	Non-riparian Wetland	Stream		
	(acre)	(acre)	(linear feet)		
2011 Original Impacts	6.22	0.42	6800 ^a		
2013 Impacts Changes	-0.02	0	-372 ^b		
Total Impacts	6.20	0.42	6,428		
^c Total Mitigation Credits Needed					
@2:1	12.40	0.84	12,856		
Mitigation Credits Provided per					
2011 404 Permit	14.86*	0.84	13,600		
Mitigation Credits Surplus	-2.46	0	-744		

^{*}This number includes the overage of mitigation credits from both R-2248 and R-2123 in the Yadkin River Basin

Please note that EEP has additional concerns about the non-riparian wetlands requirements in the November 2011 permit. In EEP's April, 21, 2011 letter, the EEP indicated that "...non-riparian wetland impacts located in the mountains and piedmont areas of North Carolina will be accepted as requested but mitigated utilizing riparian wetland mitigation credits." This requirement is due to the difficulty of finding non-riparian wetlands in the piedmont.

Condition W of the existing 404 specifically states that ".... EEP will provide...0.84 acres equivalent non-riparian wetlands...". The Ecosystem Enhancement Program is requesting that this wording be changed to reflect the non-riparian issue resolved at the February, 2011 IRT meeting. Please direct any questions regarding this mitigation concern to Beth Harmon at 919 715-1929 or beth.harmon@ncdenr.gov.

We hereby request modifications to the Section 404 and 401 Permits. Thank you for your assistance with this project. If you have any questions or need additional information regarding the permit modification request, please contact Michael Turchy at maturchy@ncdot.gov. A copy of this modification application will also be posted at http://www.ncdot.org/planning/pe/naturalunit/Permit.html.

Sincerely

Gregory J. Thorpe, Ph.D., Manager

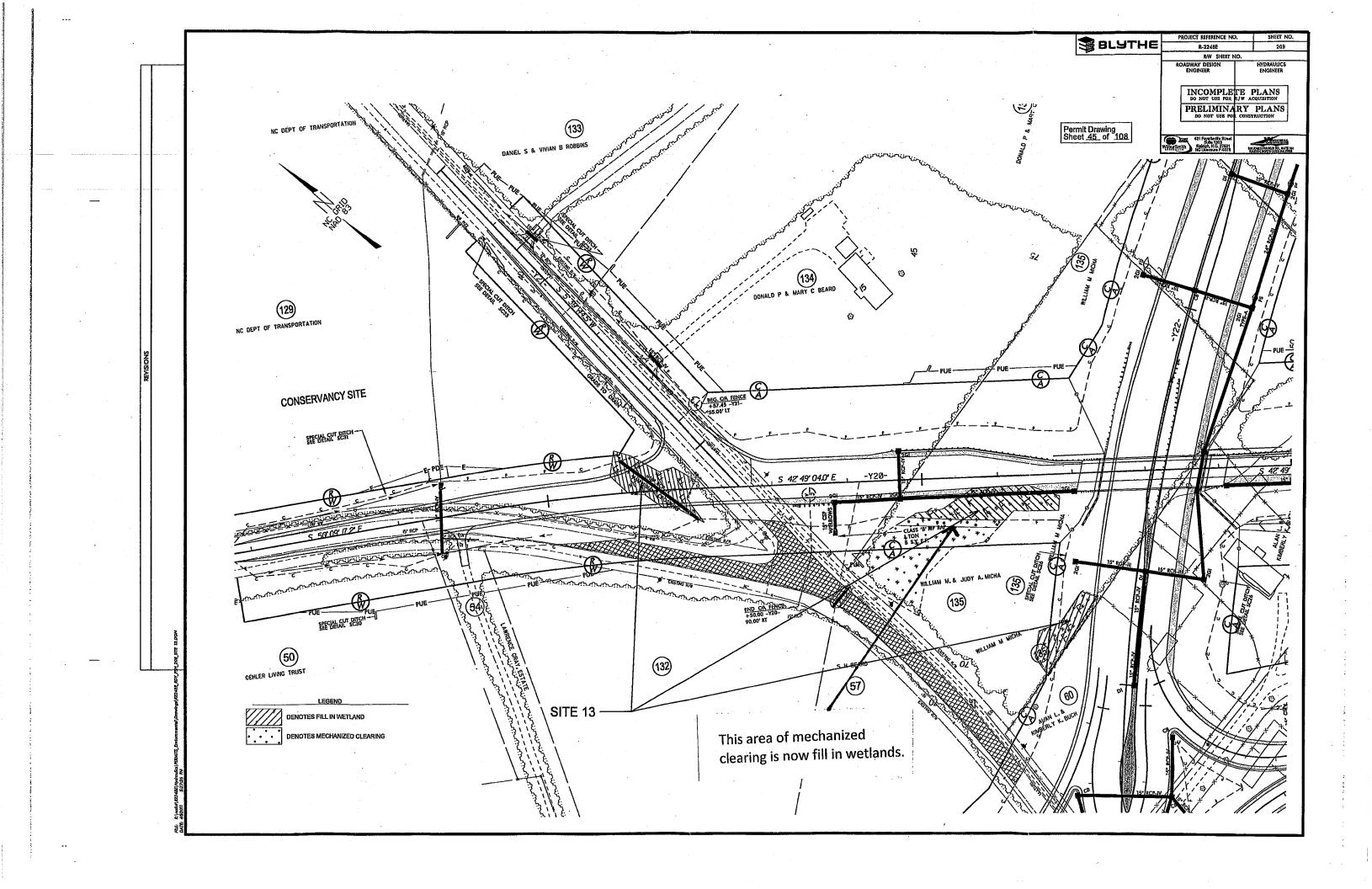
Project Development and Environmental Analysis Unit

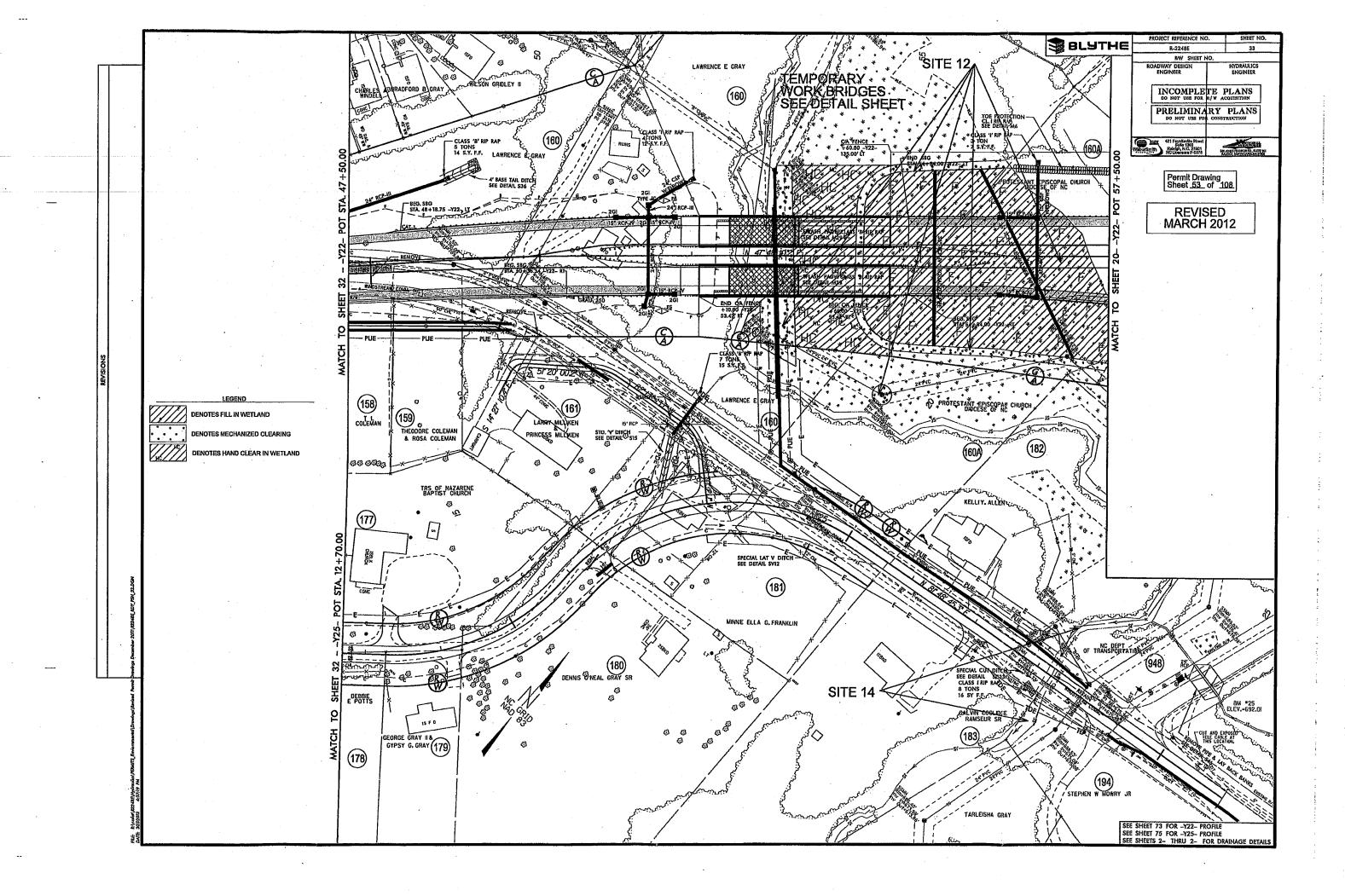
cc: NCDOT Permit Application Standard Distribution List

^aDoes not include 407 feet BS and 50 feet day-lighted stream

^bDoes not include 83 feet reduction in BS

^cMitigation is calculated for USACE requirements at 2:1 ratio; DWQ requirement is covered by USACE ratio





			WETLAND PERMIT IMPACT SUMMARY									
				WE	TLAND IMPA	CTS			SURFAC	E WATER IM	PACTS	
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
'``	(From Fro	Oize / Type	(ac)	(ac)	(ac)	(ac)	(ac)	(ac)	(ac)	(ft)	(ft)	(ft)
1	-L- (1259+00/1260+50)	Roadway Fill	0.385	(0.0)		0.020	(4.0)	0.02	(0.0)	297	(.,)	(17)
2	-L- (1266+00/1266+50)	Roadway Fill	0.222			0.028		0.05		602	-	
3	-Y10- (65+50)	54" Pipe	0.015			0.011		<0.01	<0.01	48	38	
3		Bank Stabilization		*****				·	****	24		
4	-L- (1297+00/1299+50)	84" Pipe	0.507		0.042	0.079		0.08	<0.01	428	8	
4		Bank Stabilization								69		
5	-L- (1342+00/1343+00)	8'x7' RCBC	0.116					0.04	0.01	525	175	
5		Bank Stabilization				·			1-1	44		
6	-L- (1345+00)	9'X7' RCBC						0.00	0.00	0	0	
6		Bank Stabilization								0		
7	-L- (1355+00/1367+00)	Roadway Fill	1.723			0.061		0.09	0.01	1561	127	
7		Bank Stabilization								21		
8	-L- (1390+00/1415+00)	Roadway Fill	1.060					0.21	0.01	2397	56	
8		Bank Stabilization								28		
9	-L- (1421+00)	42" Pipe						<0.01	<0.01	49	8	
9		Bank Stabilization		,				·		37		
10	-L- (1441+00)	60" Pipe			11.			<0.01	<0.01	44	18	
10		Bank Stabilization								51		
11	-L- (1465+00/1476+00)	Roadway Fill	0.144					<0.01	<0.01	138	48	
12	-Y22- (54+00/60+00)	Roadway Fill	1.609			0.164						
12		Temp. Wrk. Br.		0.051								
12		Bridge/Int. Bents	0.010				0.497					
12		Bridge/Splash Pads	0.017									
12		Sewer line/Manholes			0.000	0.164						
13	-Y20- (41+00/48+00)	Roadway Fill	0.311		·	0.030						
13		Water line	-		0.000	0.000						
13		Utility Pole Anchors			0.000	0.000						
14	-L- (1486+00/1495+00)	Roadway Fill	0.596					0.40	<0.01	803	34	
14	-Y25- (23+23)	2 @ 7' x 8' RCBC	0.000					0.00	0.00		0	
14		Bank Stabilization						-		0		
15	-Y22- (86+00/90+00)	72" Pipe	0.080			0.012		0.03	<0.01	295	21	
15		Bank Stabilization				****				50		
16	-L- (1526+20/1526+45)	48" Pipe	0.031					0.01		190		
			0.00	0.05	0.04	0.57	0.50	0.00	0.07			
TOTALS	:		6.83	0.05	0.04	0.57	0.50	0.96	0.07	7701	533	0

Revised June 2013 Permit Drawing Sheet 2 of 108

NC DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

MECKLENBURG COUNTY
WBS - 34410.3.GV2 (R-2248E)

SHEET

6/4/2013