STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

PAT L. MCCRORY
GOVERNOR

ANTHONY J. TATA
SECRETARY

November 10, 2014

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

ATTN: Ms. Lori Beckwith
NCDOT Coordinator

Subject: **Request for Modification to Individual Section 404 Permit and to Individual Section 401 Certification for Section R-2519A**
US 19/US 19E Improvements from SR 1336 (Jacks Creek Road) to SR 1186 (US 19) west of Micaville Yancey County NCDOT Division 13
State Project Numbers 6.869005T and 6.909001T
T.I.P. Project Number R-2519A
Debit $570.00 from WBS Element 35609.1.1

Reference: Individual 401 Water Quality Certification No. 3706 issued October 16, 2007 for R-2518A, R-2518B, and R-2519A.
Individual 404 Permit SAW-2007-2197-357/300 issued April 1, 2008 for R-2518A, R-2518B, and R-2519A.
Biological Opinion issued March 14, 2008.
Individual 404 Phased Modification issued January 1, 2010 R-2519A.
Individual 401 Phased Modification issued September 4, 2009 R-2519A.
404 Utilities Permit Modification issued April 25, 2011 for R-2519A.
401 Utilities Permit Modification issued April 1, 2011 for R-2519A.

Dear Madam:

This letter addresses modifications to Section R-2519A of the US 19E widening project that extends from SR 1336 (Jack's Creek Road) to SR 1186 (US 19) west of Micaville. The North Carolina Department of Transportation (NCDOT) requests approval for revisions to the Individual 404 Phased Modification issued January 1, 2010 and the Individual 401 Phased Modification issued September 4, 2009. NCDOT proposes to eliminate a proposed retaining wall depicted on Permit Drawings page 37 and 38 (Permit Site 12) and Roadway Plan Sheet 20.

MAILING ADDRESS:
NC DEPARTMENT OF TRANSPORTATION
PROJECT DEVELOPMENT & ENVIRONMENTAL ANALYSIS UNIT
1598 MAIL SERVICE CENTER
RALEIGH NC 27699-1598

TELEPHONE: 919-707-6000
FAX: 919-212-5785

WEBSITE:NCDOT.GOV

LOCATION:
CENTURY CENTER, BUILDING B
1020 BIRCH RIDGE DRIVE
RALEIGH NC 27610

Permit Site 12 is located near the intersection of Pensacola Road (NC 197) and US 19 E where Little Crabtree Creek passes through an existing double barrel culvert. The discovery of a bedrock layer along Little Crabtree Creek has prevented the installation of the proposed retaining wall. As a result, NCDOT proposes a 2:1 fill slope at this location which will encroach upon Little Crabtree Creek necessitating the realignment of the stream and the extension of the culvert under Pensacola Road.

New Impacts

The revised permanent impacts at Site 12 are **305 linear feet**, an increase of 173 linear feet over the original estimated impacts of 132 lf (34 lf culvert extension/98 lf of bank stabilization).

Mitigation

This modification request increases the permanent impacts for R-2519A from the existing permit of 4,509 linear feet to **4,682 linear feet**. In the previous permit, NCDOT committed to mitigation of 34 lf at Permit Site 12 (98 lf of bank stabilization was not mitigated). The new impacts at Permit Site 12 will require 271 lf of coldwater mitigation from the North Carolina Ecosystem Enhancement Program (NCEEP).

This submittal includes Revised Permit Drawings 6, 37, 38 (dated October 3, 2014), a revised Roadway Plansheet 20, Mitigation Acceptance Letter from NCEEP, and a vicinity map depicting the location of Permit Site 12.

The R-2519A project Let on May 17, 2011. Little Crabtree Creek has a trout moratorium from January 1 to April 15.

If you have any questions or need additional information, please call Jeff Hemphill at (919) 707-6126.

Sincerely,

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

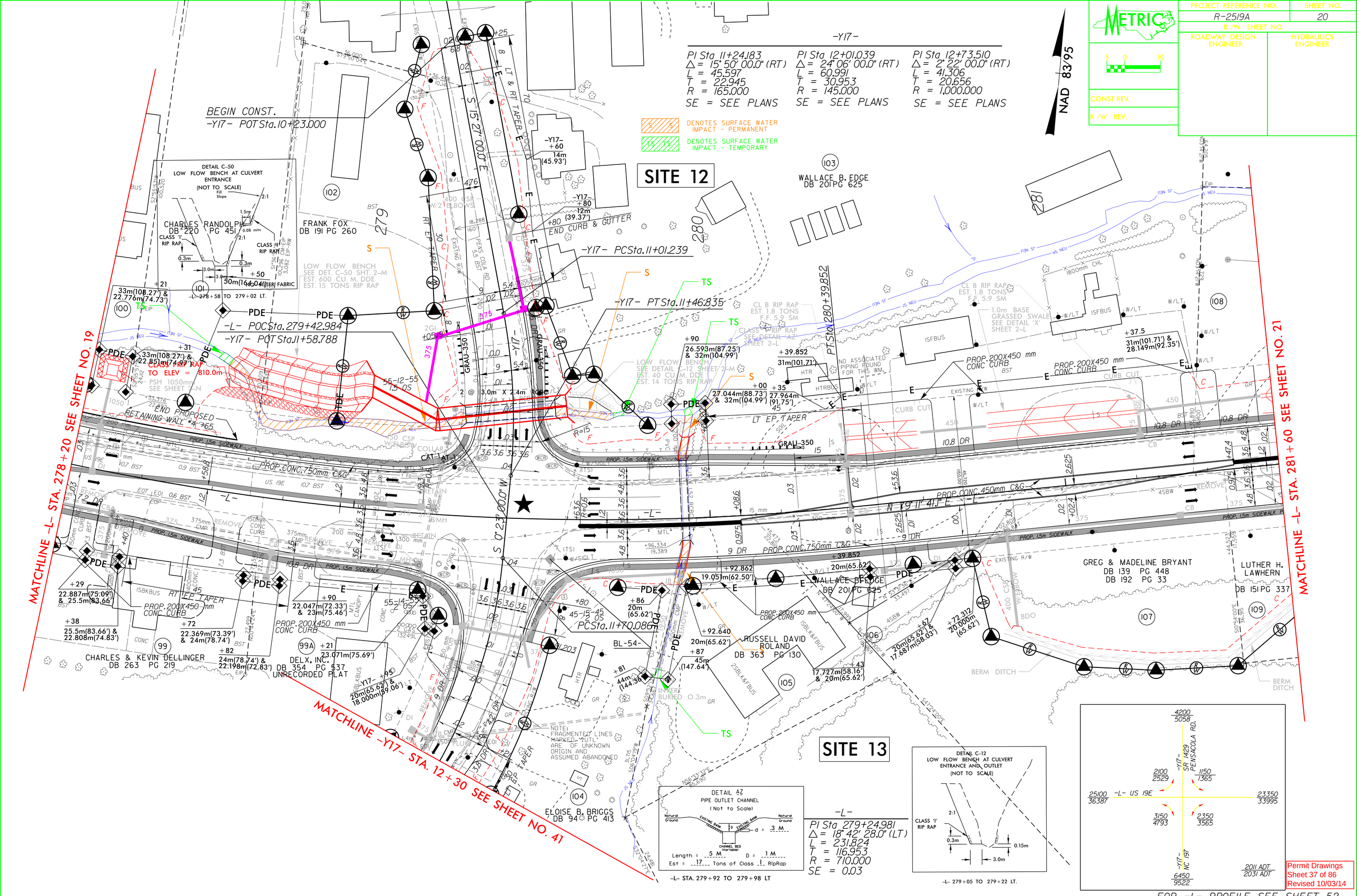
cc:
NCDOT Permit Application Standard Distribution List

WETLAND PERMIT IMPACT 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)
1	-L- 228+50	1000mm CMP						0.01	<0.01	55	16	
1	-L- 228+50 RT	BANK STABILIZATION						<0.01		13		
2	-D1- 10+40	2.23m X 1.60m CS PIPE ARCH						0.02	<0.01	59	18	
2	-D1- 10+40 RT	BANK STABILIZATION						<0.01		26		
3	-L- 230+85	900mm CMP						0.01	<0.01	41	8	
3	-L- 230+85 RT	BANK STABILIZATION						<0.01		13		
4	-L- 231+50	1800mm CMP						<0.01	0.02	13	12	
4	-L- 231+50 RT	BANK STABILIZATION						0.01		33		
5	-L- 232+90	1500mm CMP						0.02	<0.01	83	13	
6	-L- 236+10	1400mm CMP						0.01	<0.01	51	11	
6	-L- 236+10 RT	BANK STABILIZATION						<0.01		30		
7	-L- 243+30	2100mm CMP						0.00	0.00	0	0	
8	-L- 249+65	1500mm CMP						<0.01	<0.01	19	9	
9	-D4- 10+30	2.41m X 1.70m CS PIPE ARCH						<0.01	<0.01	16	25	
9	-D4- 10+30	BANK STABILIZATION						<0.01		16		
9A	-L- 255+40 RT	BANK STABILIZATION						0.00		25		
10	-L- 257+35 / -Y10- 11+00	2@ 1.8m X 1.8m RCBC / BASIN						0.11	0.01	691	47	
10	-L- 257+35 RT	BANK STABILIZATION						<0.01		23		
11	-L- 270+55	1400mm CSP						<0.01	<0.01	13	10	
11	-L- 270+55 LT	BANK STABILIZATION						<0.01		19		
12	-Y17- 11+30	2@ 3.0m X 2.4m RCBC						0.21	<0.01	305	20	
13	-L- 279+93	1@ 2.13m X 1.52m RCBC						0.01	<0.01	66	15	
13	-L- 279+93 LT	BANK STABILIZATION						<0.01		16		
14	-L- 284+30 Lt.	2 - 2@ 3.35m X 2.74m RCBC						0.00	0.00	0	0	
14	-L- 283+96 / -L- 284+98 LT	BANK STABILIZATION						0.07		270		
SHEET TOTAL:								0.29	0.03	1723	204	

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
YANCEY COUNTY
WBS - 35609.1.1 (R2519A)
SHEET OF 10/21/14

Permit Drawings
Sheet 6 of 86
Revised 10/03/14



METRIC
PROJECT REFERENCE NO.
R-2519A
SHEET NO.
20
R/W SHEET NO.
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
CONST. REV.
R/W REV.
NAD 83/95
-Y17-
PI Sta 11+24.183
Δ = 15° 50' 00.0" (RT)
L = 45.597
T = 22.945
R = 165.000
SE = SEE PLANS
PI Sta 12+01.039
Δ = 24° 06' 00.0" (RT)
L = 60.991
T = 30.953
R = 145.000
SE = SEE PLANS
PI Sta 12+73.510
Δ = 2° 22' 00.0" (RT)
L = 41.306
T = 20.656
R = 1,000.000
SE = SEE PLANS
DENOTES SURFACE WATER IMPACT - PERMANENT
DENOTES SURFACE WATER IMPACT - TEMPORARY
SITE 12
SITE 13
BEGIN CONST.
-Y17- POT Sta.10+23.000
-Y17- PC Sta.11+01.239
-Y17- PT Sta.11+46.835
-L- POC Sta.279+42.984
-Y17- POT Sta.11+58.788
PC Sta.11+70.086
PT Sta.280+39.852
DETAIL C-50
LOW FLOW BENCH AT CULVERT ENTRANCE
(NOT TO SCALE)
CHARLES RANDOLPH
DB 220 PG 451
FRANK FOX
DB 191 PG 260
WALLACE B. EDGE
DB 201 PG 625
GREG & MADELINE BRYANT
DB 139 PG 448
DB 192 PG 33
LUTHER H. LAWHERN
DB 151 PG 337
CHARLES & KEVIN DELLINGER
DB 263 PG 219
DELX, INC.
DB 354 PG 537
UNRECORDED PLAT
RUSSELL DAVID ROLAND
DB 363 PG 130
ELOISE B. BRIGGS
DB 94 PG 413
MATCHLINE -L- STA. 278+20 SEE SHEET NO. 19
MATCHLINE -L- STA. 281+60 SEE SHEET NO. 21
MATCHLINE -Y17- STA. 12+30 SEE SHEET NO. 41
END PROPOSED RETAINING WALL
PROP. 200X450 mm CONC CURB
PROP. CONC. 750mm C&G
PROP. CONC. 450mm C&G
PROP. 1.5m SIDEWALK
LT EP TAPER
RT EP TAPER
LT & RT TAPER
END CURB & GUTTER
NOTE: FRAGMENTED LINES MARKED "UTL" ARE OF UNKNOWN ORIGIN AND ASSUMED ABANDONED
DETAIL AZ
PIPE OUTLET CHANNEL
(Not to Scale)
Length = 5 M
D = 1 M
Est = 17 Tons of Class I RipRap
-L- STA. 279+92 TO 279+98 LT
-L-
PI Sta 279+24.981
Δ = 18° 42' 28.0" (LT)
L = 231.824
T = 116.953
R = 710.000
SE = 0.03
DETAIL C-12
LOW FLOW BENCH AT CULVERT ENTRANCE AND OUTLET
(NOT TO SCALE)
CLASS 'I' RIP RAP
-L- 279+05 TO 279+22 LT.
-L- US 19E
-Y17- SR 1429 PENSACOLA RD.
-Y17- NC 197
2011 ADT
2031 ADT
Permit Drawings
Sheet 37 of 86
Revised 10/03/14
FOR -L- PROFILE SEE SHEET 52
FOR -Y17- PROFILE SEE SHEET 66
FOR WCR STATIONING SEE PAVEMENT MARKING PLANS
FOR CULVERT DESIGN SEE SHEETS C-1 THRU C-112
PROPOSED TRAFFIC SIGNAL

PROJECT REFERENCE NO.	SHEET NO.
R-2519A	20
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
CONST. REV.	
R/W REV.	

METRIC

5 0 10

NAD 83/95

-Y17-

PI Sta 11+24.183
Δ = 15° 50' 00.0" (RT)
L = 45.597
T = 22.945
R = 165.000
SE = SEE PLANS

PI Sta 12+01.039
Δ = 24° 06' 00.0" (RT)
L = 60.991
T = 30.953
R = 145.000
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PI Sta 12+73.510
Δ = 2° 22' 00.0" (RT)
L = 41.306
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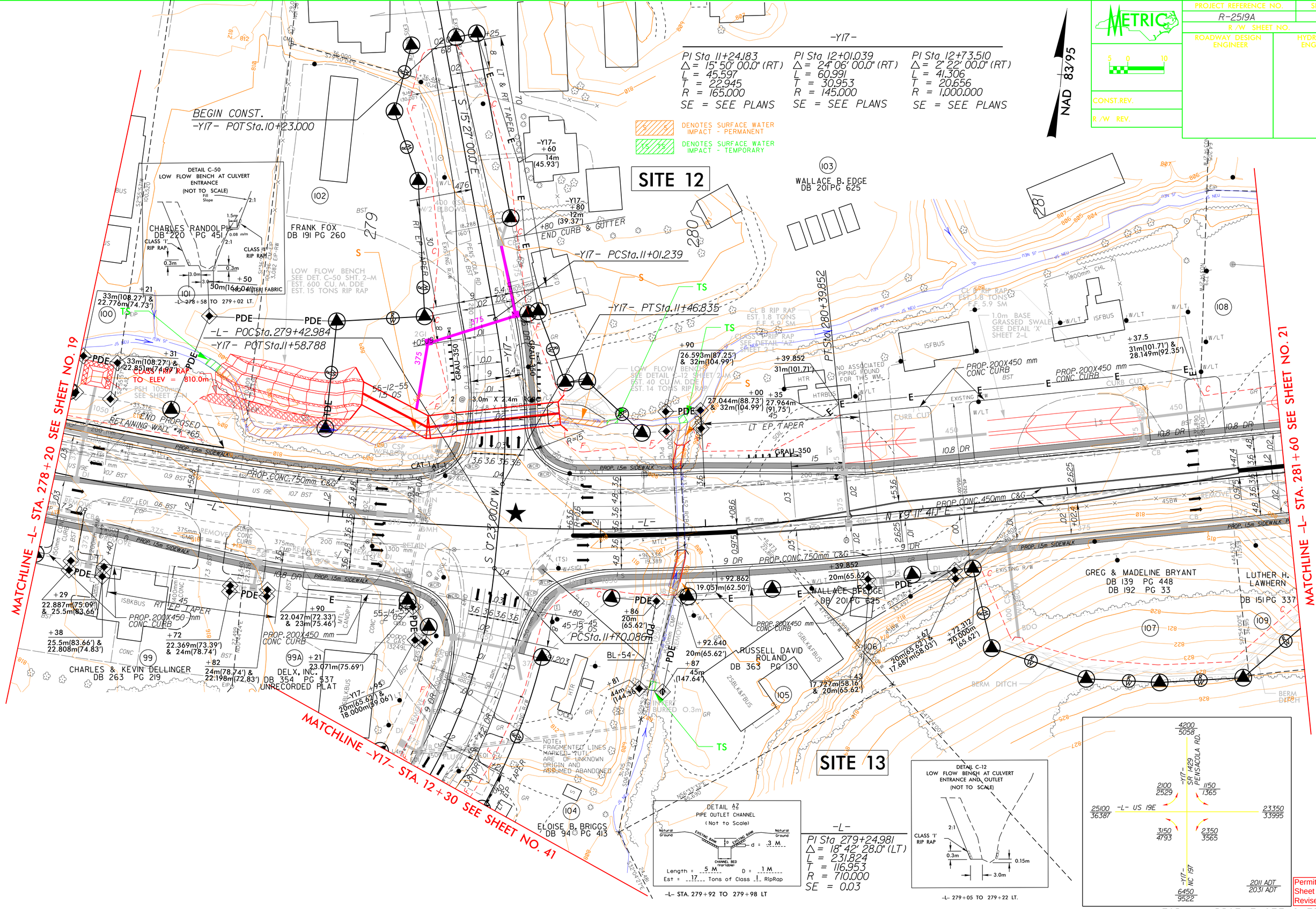
DENOTES SURFACE WATER IMPACT - PERMANENT

DENOTES SURFACE WATER IMPACT - TEMPORARY



DETAIL C-50
LOW FLOW BENCH AT CULVERT ENTRANCE
(NOT TO SCALE)

DETAIL AZ
PIPE OUTLET CHANNEL
(Not to Scale)
Length = 5 M D = 1 M
Est = 17 Tons of Class I RipRap
-L- STA. 279+92 TO 279+98 LT

-L-

PI Sta 279+24.981
Δ = 18° 42' 28.0" (LT)
L = 231.824
T = 116.953
R = 710.000
SE = 0.03

DETAIL C-12
LOW FLOW BENCH AT CULVERT ENTRANCE AND OUTLET
(NOT TO SCALE)
-L- 279+05 TO 279+22 LT.

SITE 13

4200/5058 SR 1429 PENSACOLA RD. -Y17-
2100/2529 1150/1365
25100/36387 -L- US 19E 23350/33995
3150/4793 2350/3565
-Y17- NC 197 6450/9522
2011 ADT / 2031 ADT

Permit Drawings
Sheet 38 of 86
Revised 10/03/14

FOR CULVERT DESIGN SEE SHEETS C-1 THRU C-112

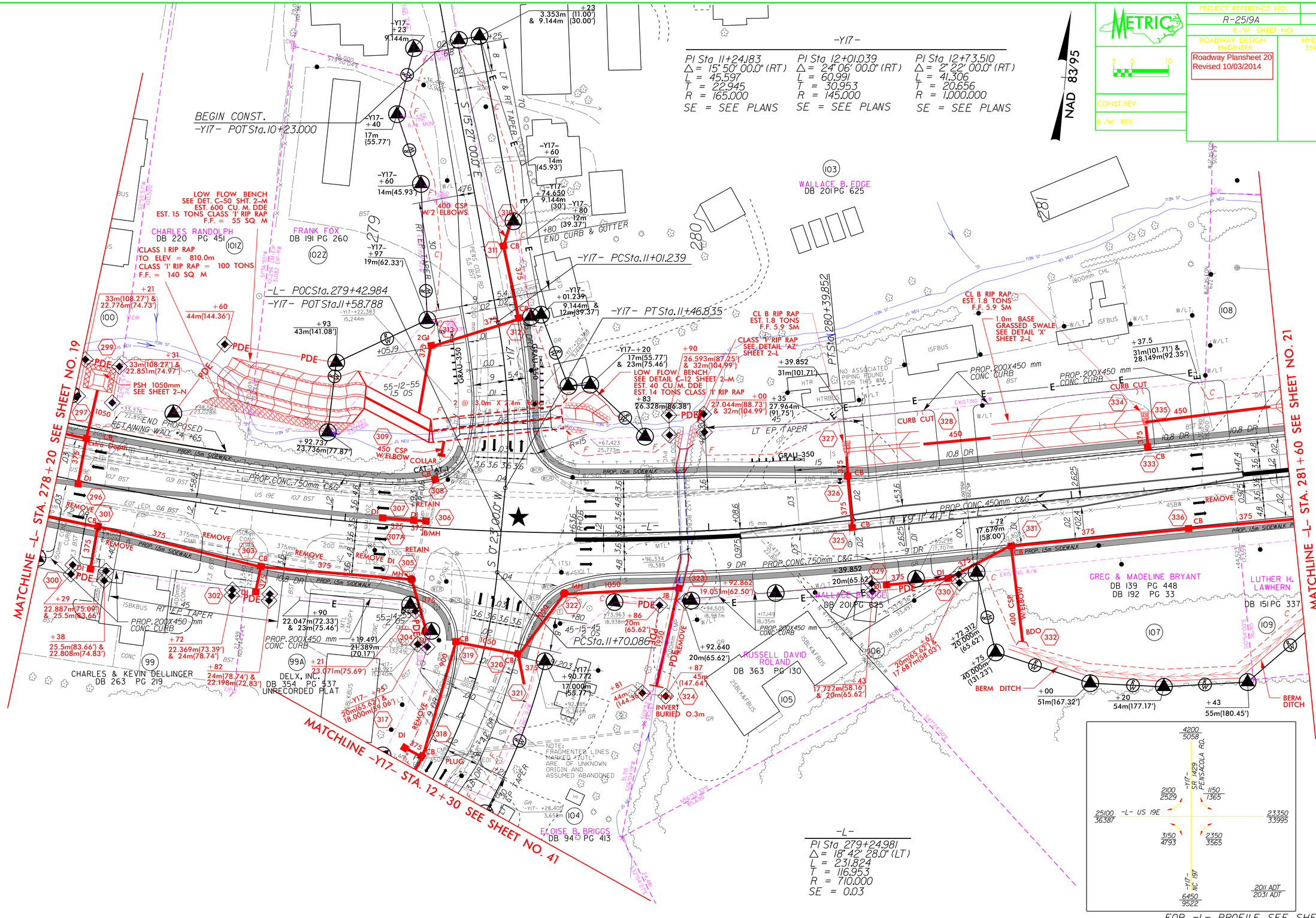
★ PROPOSED TRAFFIC SIGNAL

FOR -L- PROFILE SEE SHEET 52
FOR -Y17- PROFILE SEE SHEET 66
FOR WCR STATIONING SEE PAVEMENT MARKING PLANS

PROJECT REFERENCE NO.	SHEET NO.
R-2519A	20
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
Roadway Plansheet 20 Revised 10/03/2014	
CONST.REV.	
R/W REV.	

METRIC 5 0 10

NAD 83/95



FOR CULVERT DESIGN SEE SHEETS C-1 THRU C-112

★ PROPOSED TRAFFIC SIGNAL

FOR -L- PROFILE SEE SHEET 52
FOR -Y17- PROFILE SEE SHEET 66
FOR WCR STATIONING SEE PAVEMENT MARKING PLANS

CONST.REV.: REVISED CULVERT UNDER -Y17- AND ADDED A LOW FLOW BENCH ON PARCEL 101Z AND 102Z.

8/17/99

North Carolina Department of Environment and Natural Resources

Pat McCrory
Governor

Michael Ellison, Director
Ecosystem Enhancement Program

John E. Skvarla, III
Secretary

November 4, 2014

Mr. Richard W. Hancock, P.E.
Manager, Project Development and Environmental Analysis Unit
North Carolina Department of Transportation
1548 Mail Service Center
Raleigh, North Carolina 27699-1548

Dear Mr. Hancock:

Subject: EEP Mitigation Acceptance Letter:

R-2518A / B and R-2519A, US 19 Improvements, Madison and Yancey Counties

References: USACE 404 Individual Permit issued April 17, 2008 (USACE Action ID 2007-02197-357/300) and Modified Individual Permit issued on January 6, 2010

NCDWR 401 Water Quality Certification issued March 17, 2008 (NCDWQ Project ID 2007-1134) and Modified 401 WQC issued on December 11, 2009

The purpose of this letter is to notify you that the Ecosystem Enhancement Program (EEP) will provide the additional stream mitigation for the subject project. Based on the information supplied by you on October 22, 2014, the additional impacts are located in CU 06010108 of the French Broad River Basin in the Northern Mountains (NM) Eco-Region, and are as follows:

Table 1 – Additional Impacts

French Broad 06010108 NM	Stream			Wetlands			Buffer (Sq. Ft.)	
	Cold	Cool	Warm	Riparian	Non-Riparian	Coastal Marsh	Zone 1 (3:1)	Zone 2 (1.5:1)
Impacts (feet/acres)	271.0	0	0	0	0	0	0	0

EEP has previously received the original and modified 404 Individual permits and 401 water quality certifications for this project and debits for all required stream and wetland mitigation from those authorizations are complete.

Table 2 – Total Revised Impacts for TIP R-2518A / B / R-2519A (French Broad 06010105 / 06010108)

Impact Type	Permitted Impacts (feet / acre)	Mitigation Required under Original Permit (Credits)	Additional Impact (for approval)	Revised Total Impacts
Stream	3,082.0	6,152.0	271.0	3,353.0
Riparian Wetland	0.63	0.63	0	0.63
Non-Riparian Wetland	0.31	0.31	0	0.31

This mitigation acceptance letter replaces the mitigation acceptance letter issued on October 22 and June 26, 2007 and November 3, 2009. This impact and associated mitigation need were not projected by the NCDOT in the 2014 impact data. EEP will commit to implement sufficient compensatory stream mitigation credits to offset the additional impacts associated with this project as determined by the regulatory agencies using the delivery timeline listed in Section F.3.c.iii of the N.C. Department of Environment and Natural Resources' Ecosystem Enhancement Program In-Lieu Fee Instrument dated July 28, 2010. If the above referenced impact amounts are revised, then this mitigation acceptance letter will no longer be valid and a new mitigation acceptance letter will be required from EEP.

If you have any questions or need additional information, please contact Ms. Beth Harmon at 919-707-8420.

Sincerely,

James B. Stanfill
EEP Asset Management Manager

Cc: Ms. Lori Beckwith, USACE – Asheville Regulatory Field Office
Mr. Kevin Barrett, NC Division of Water Resources
File: R-2518A / B / R-2519A Additional 2

CULVRET EXTENSION
AT PENSACOLA ROAD
SITE 12

Begin Project

End Project

Burnsville

Windom

Micaville

SITE 1
SITE 2
SITE 3
SITE 4
SITE 5
SITE 6
SITE 7
SITE 8
SITE 9
SITE 10
SITE 11
SITE 12
SITE 13
SITE 14
SITE 15
SITE 16
SITE 17
SITE 18
SITE 19
SITE 20
SITE 21
SITE 22
SITE 23
SITE 24
SITE 25P
SITE 25
SITE 26
SITE 27
SITE 28
SITE 29
SITE 30
SITE 31
SITE 32
SITE 33
SITE 34
SITE 35
SITE 36
SITE 37

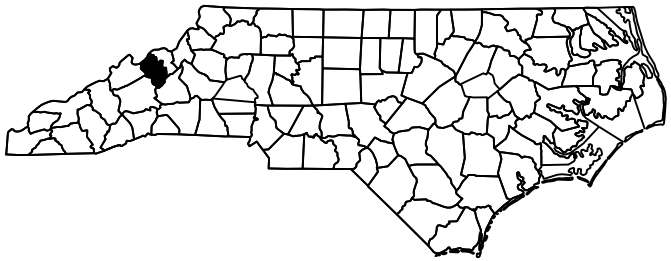
1328

19 E

197

80

NORTH CAROLINA



VICINITY

MAP

NCDOT

DIVISION OF HIGHWAYS

YANCEY COUNTY

PROJECT: WBS 35609.1.1 (R-2519A)

US 19 E EAST OF SR 1336
(JACKS CREEK ROAD) TO
SR 1186 (OLD US 19)

SHEET OF