



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY  
GOVERNOR

LYNDO TIPPETT  
SECRETARY

June 14, 2007

U. S. Army Corps of Engineers  
Regulatory Field Office  
Post Office Box 1000  
Washington, NC 27889-1000

Mr. William Wescott  
NCDOT Coordinator

Subject: **Application for the Modification of the Individual Section 404 and 401 permits, and Neuse River Riparian Buffer Authorization for TIP U-3823,** the proposed widening of Airport Boulevard (SR 1158) from NC 42 West to US 264 Alternate in Wilson, Wilson County; NCDOT Division 4. Federal Project No. STP-1158(2), State Project No. 8.2341801. Debit \$475 from WBS Element 34981.1.1.

References:

Section 404 Individual Permit Action ID 200020569  
Section 401 Individual Water Quality Certification Project No. 3550  
Neuse River Riparian Buffer Certification

Dear Sir:

Please reference previous applications and subsequent permits listed above, along with the attached revised drawings. The NCDOT has completed the "B" section of this project, which extends from US 264 Alternate to 0.4 mile south on Airport Boulevard (SR 1158). The "A" section extends from approximately 0.4 miles south of the intersection with Airport Boulevard, to NC 42.

Since the previous permit, in which both sections were permitted, there has been a design change for the project. The previous permit granted impacts to Waters of the US to four sites. Sites 3 and 4 are located in the "B" section, which has been constructed. Sites 1 and 2 remain in the "A" section and contain changes from the previous permitted impacts as described below:

Site 1 (44+95-45+55-L-)

There are NO changes to the amount of impacts for this site, however, the permit drawings have been clarified from "temporary impact in wetlands" to "temporary fill in wetlands".

Site 2 (77+25-91+55 -L-)

Due to a re-evaluation of the construction and phasing methods for the removal of the box culvert and replacement with a bridge, along with the relocation of utility and railroad signal control boxes, an increase to wetland impacts has occurred at this site.

NCDOT continues to propose to remove the 12' x 9' pentuple barrel culvert, and replace it with a 4-span, 205-foot cored slab bridge carrying Bloomery Swamp. However, to allow for a cleaner and expedited removal of the existing box culvert, NCDOT will remove the entire culvert at one time. To accommodate this removal, the total permanent impacts to wetlands have increased as shown in Table 1 below, and in the attached drawings.

These proposed activities have also increased the impacts to the Neuse River Riparian Buffer as summarized in Table 2 below, and shown in the attached drawings. These proposed buffer impacts are considered allowable due to bridging.

**Table 1: Summary of Changes to Wetland Impacts at Site 2**

	Permanent Fill in Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Temp Fill in Wetlands (ac)	Temp Fill in Surface Water (workpad) (ac)
Previously Permitted Impacts	0.547	0.001	0.299	0.118	0.066
Requested Modification	0.585	0.032	0.268	0.132	0.175
Difference	+0.038	+0.031	-0.031	+0.014	+0.109

**Table 2: Summary of Changes to Buffer Impacts at Site 2**

	Zone 1 Impacts (sq. ft.)	Zone 2 Impacts (sq. ft.)
Previously Permitted Impacts	7,871	5,029
Requested Modification	8,535	5,525
Difference	+664	+496

Summary of Mitigation:

The North Carolina Ecosystem Enhancement Program (NCEEP) has previously provided 0.903 acre of mitigation for the proposed project under the previous permit. The permanent wetland impact for this project now totals 0.933 acre. NCDOT proposes to offset the additional 0.03 acre of additional impact for this project by using excess mitigation assets from a nearby NCDOT mitigation site within the same hydraulic unit code (03030203).

The Wiggins Mill Mitigation Site is located in Wilson County, south of the Wiggins Mill Reservoir and southwest of the City of Wilson. It encompasses approximately 89 acres. The site grading was completed in October 2000 and planted in March 2001. Copies of the

mitigation plan have been previously forwarded to the resource agencies. Additional copies of this mitigation plan will be provided upon request.

The site includes 84 acres of riverine wetland restoration, 5.3 acres of riverine wetland enhancement, 7,020 linear feet of stream restoration, and 11.31 acres of buffer restoration. It initially served as mitigation for U-3472 and R-1023 and has since been debited for R-1023AB & B. To offset 0.03 acre of unavoidable impacts to riverine wetlands for this project the site will be debited 0.06 acre of riverine wetland restoration. These debits are reflected in table 3 below.

**Table 3: Wiggins Mill Mitigation Debit Ledger w/ Residual Assets**

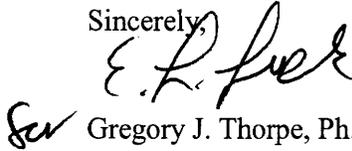
Mitigation Type	Original Mitigation	Debit for TIP R-1023	Debit for TIP U-3472	Debit for TIP R-1023 AB & B	Debit for TIP U-3823A	Remaining Residual Assets
Riverine Wetland Restoration (acres)	84	70.6	0.44		0.06	12.9
Riverine Wetland Enhancement (acres)	5.3					5.3
Buffer (acres)	11.31		4.75			6.56
Stream Restoration (feet)	7,020	2,380	1,109	2,284		1,247

### REGULATORY APPROVALS

A modification is hereby requested for the Department of the Army for a Section 404 Individual Permit (reference action ID 200020569), a modification to the Section 401 Individual Water Quality Certification (reference certification no. 3550), and a modification to the Neuse River Buffer Certification (reference certification no. 3550), for the above described activities. In compliance with Section 143-215.3D(e) of the NCAC, we will provide \$475.00 to act as payment for processing the Section 401 permit application previously noted in this application (debit WBS element 34981.1.1). We are providing five copies of this application to the North Carolina Department of Environment and Natural Resources, Division of Water Quality.

Thank you for your assistance with this project. If you have any questions or need additional information, please contact Mr. Michael Turchy at [maturchy@dot.state.nc.us](mailto:maturchy@dot.state.nc.us) or (919) 715-1468. A copy of this application will also be posted at <http://www.ncdot.org/doh/preconstruct/pe/neu/Permit.html>.

Sincerely,



Gregory J. Thorpe, Ph.D., Environmental Management Director  
Project Development and Environmental Analysis Branch

W/attachment

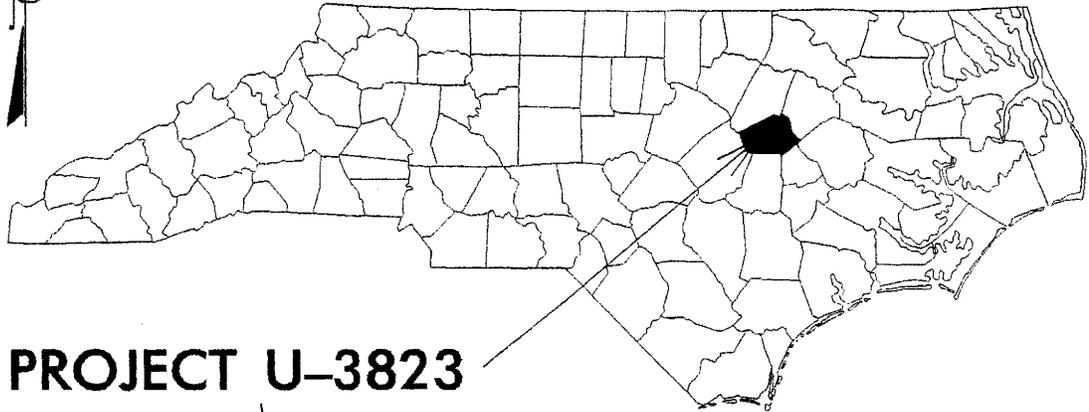
Mr. John Hennessy, NCDWQ (5 Copies)  
Mr. Travis Wilson, NCWRC  
Ms. Kathy Matthews, USEPA  
Mr. Ronald Mikulak, USEPA – Atlanta, GA  
Mr. Clarence W. Coleman, P.E., FHWA  
Mr. Gary Jordan, USFWS  
Mr. Michael Street, NCDMF  
Mr. Ron Sechler, NMFS  
Dr. David Chang, P.E., Hydraulics  
Mr. Greg Perfetti, P.E., Structure Design  
Mr. Victor Barbour, P.E., Project Services Unit  
Mr. Mark Staley, Roadside Environmental  
Mr. Richard E. Greene, P.E. Div. 4 Engineer  
Mr. Jamie Guerrero, Div. 4 Environmental Officer

W/o attachment

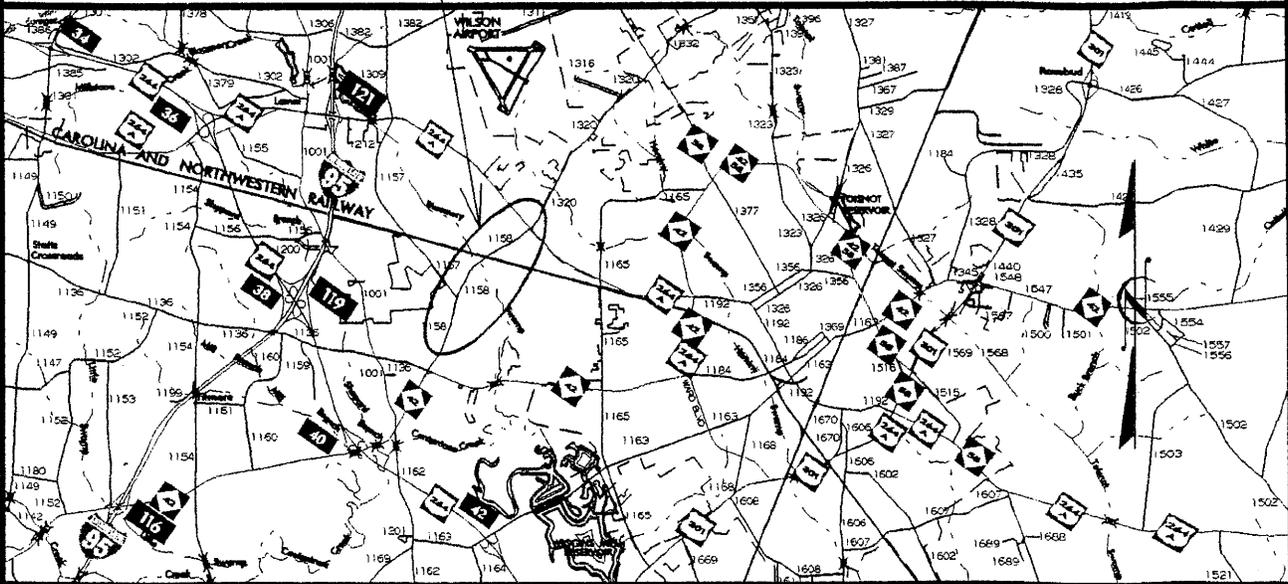
Mr. Scott McLendon, USACE, Wilmington  
Mr. Jay Bennett, P.E., Roadway Design  
Mr. Majed Alghandour, P. E., Programming and TIP  
Mr. Art McMillan, P.E., Highway Design  
Ms. Beth Harmon, EEP  
Mr. Todd Jones, NCDOT External Audit Branch  
Ms. Beth Smyre, PDEA  
Mr. Carl Goode, PE, Human Environment Unit

# WETLAND DRAWINGS

## NORTH CAROLINA



## PROJECT U-3823



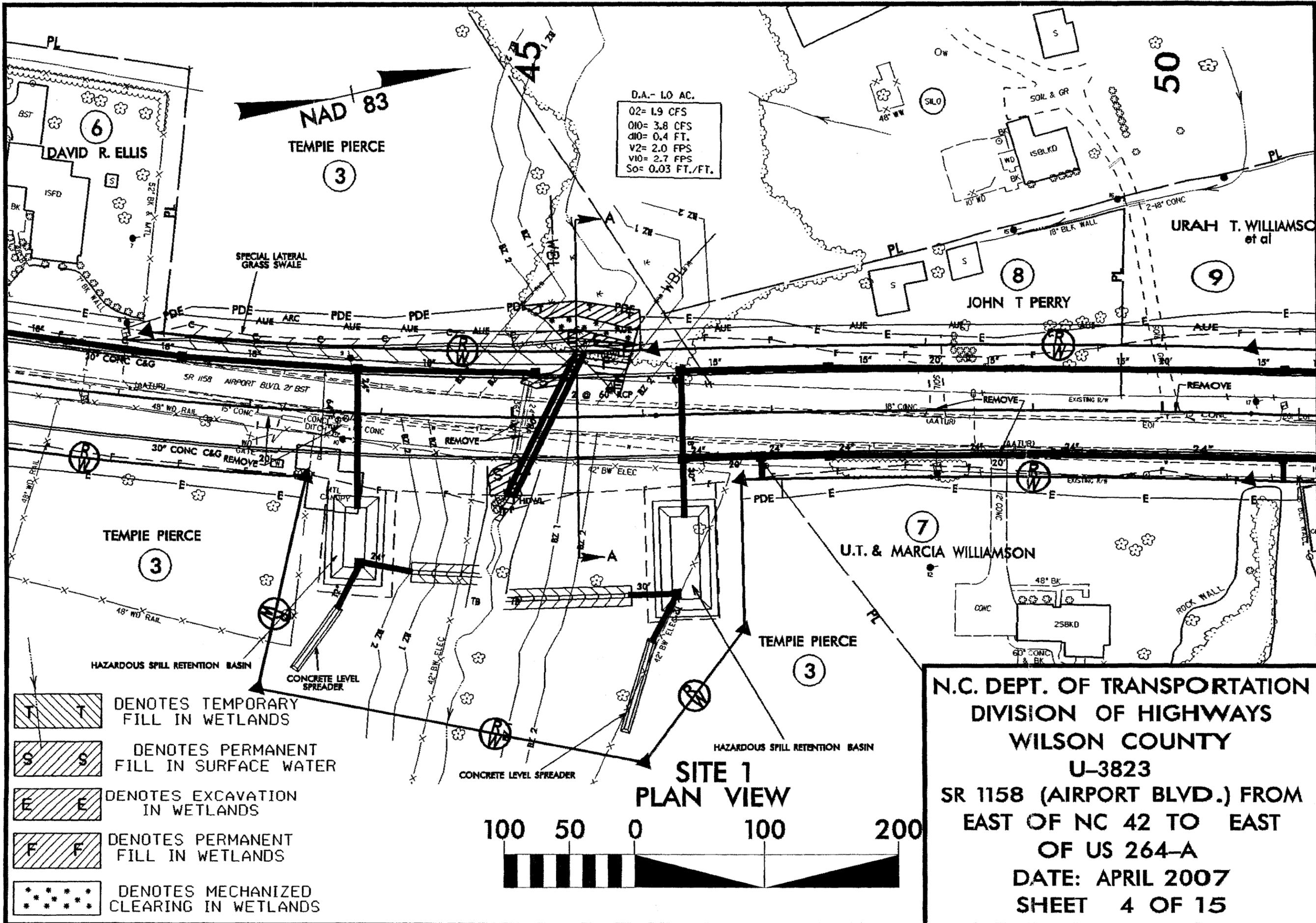
## VICINITY MAP

N.C. DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
WILSON COUNTY  
U-3823

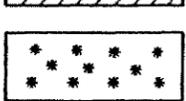
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EAST OF NC 42 TO EAST  
OF US 264-A

DATE: APRIL 2007

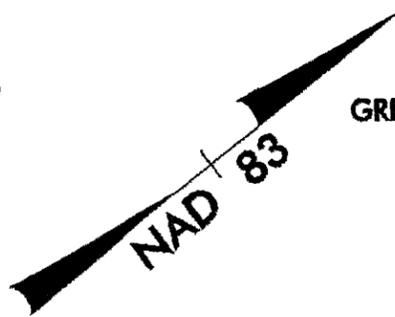
SHEET 1 OF 15



D.A. - 1.0 AC.  
 Q2 = 1.9 CFS  
 Q10 = 3.8 CFS  
 d10 = 0.4 FT.  
 V2 = 2.0 FPS  
 V10 = 2.7 FPS  
 So = 0.03 FT./FT.

-  DENOTES TEMPORARY FILL IN WETLANDS
-  DENOTES PERMANENT FILL IN SURFACE WATER
-  DENOTES EXCAVATION IN WETLANDS
-  DENOTES PERMANENT FILL IN WETLANDS
-  DENOTES MECHANIZED CLEARING IN WETLANDS

**N.C. DEPT. OF TRANSPORTATION**  
**DIVISION OF HIGHWAYS**  
**WILSON COUNTY**  
**U-3823**  
**SR 1158 (AIRPORT BLVD.) FROM**  
**EAST OF NC 42 TO EAST**  
**OF US 264-A**  
**DATE: APRIL 2007**  
**SHEET 4 OF 15**



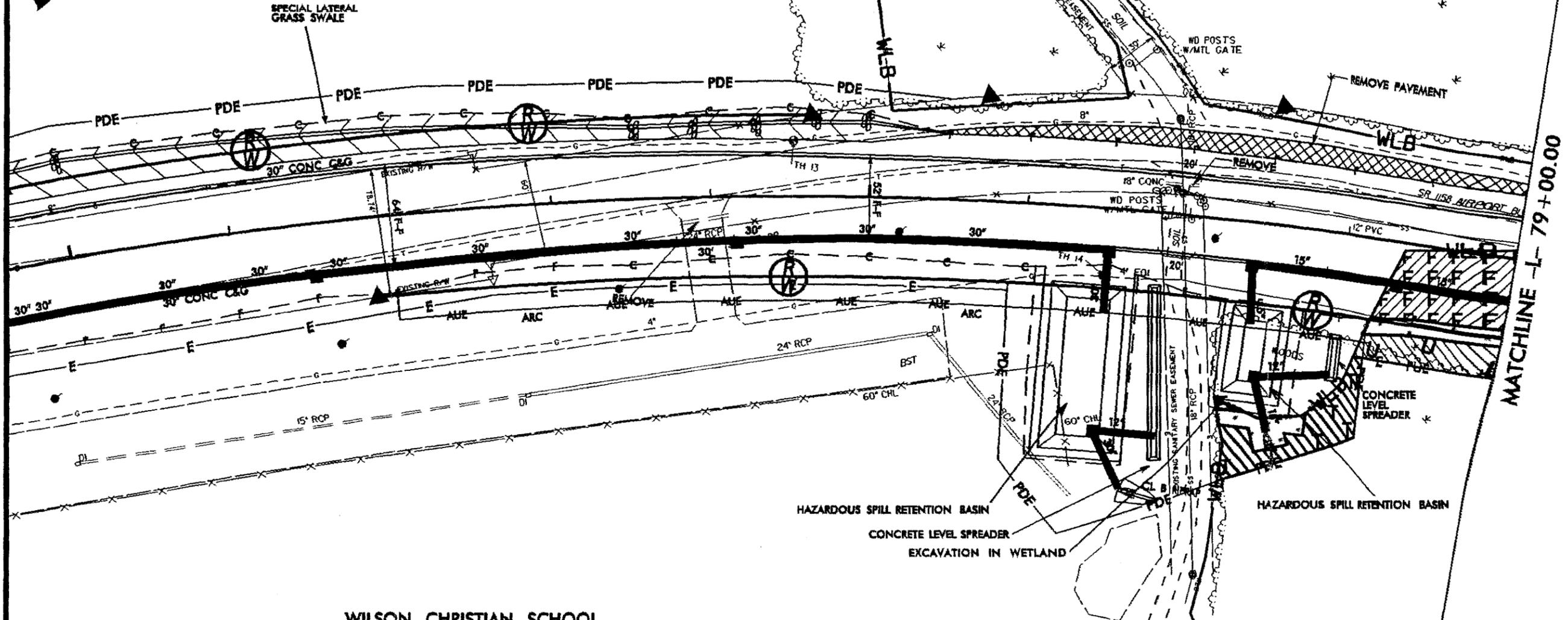
GREGORY-THOMAS DEV. CO. INC

14

D.A. = 7.2 AC.  
Q10 = 27 CFS  
Q2 = 21 CFS  
D10 = 1.0 FT.  
V10 = 4.9 FPS  
V2 = 3.7 FPS  
So = 0.02 FT./FT.

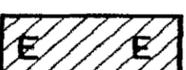
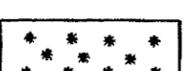
GREGORY-THOMAS DEV. CO. INC

14



WILSON CHRISTIAN SCHOOL

13

-  DENOTES PERMANENT FILL FOR UTILITIES
-  DENOTES TEMPORARY FILL IN WETLANDS
-  DENOTES EXCAVATION IN WETLANDS
-  DENOTES PERMANENT FILL IN WETLANDS
-  DENOTES MECHANIZED CLEARING IN WETLANDS

### SITE 2 PLAN VIEW



N.C. DEPT. OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 WILSON COUNTY  
 U-3823  
 SR 1158 (AIRPORT BLVD.) FROM  
 EAST OF NC 42 TO EAST  
 OF US 264-A  
 DATE: APRIL 2007  
 SHEET 6 OF 15

GREGORY-THOMAS DEV. CO. INC

14

80

NAD 83

85

HERITAGE PLACE OF WILSON. LLC

16

CLASS II RIP RAP TO ELEV. - 111.0'

WLB

WLB

MATCHLINE -L- 79 + 00.00

MATCHLINE -L- 88 + 00.00

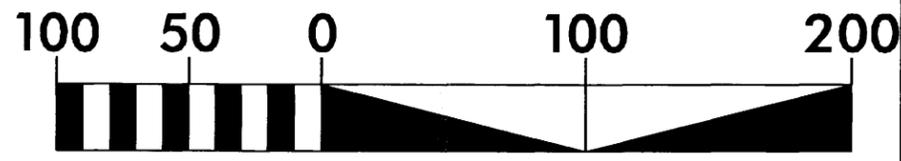
WILSON CHRISTIAN SCHOOL

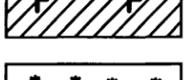
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HERITAGE PLACE OF WILSON. LLC

15

### SITE 2 PLAN VIEW



-  DENOTES TEMPORARY FILL IN WETLANDS
-  DENOTES EXCAVATION IN WETLANDS FOR TEMP DIVERSION CHANNEL
-  DENOTES PERMANENT WETLANDS IMPACT FOR UTILITY RELOCATION
-  DENOTES TEMPORARY FILL IN SURFACE WATER
-  DENOTES PERMANENT FILL IN WETLANDS
-  DENOTES MECHANIZED CLEARING IN WETLANDS

N.C. DEPT. OF TRANSPORTATION  
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 WILSON COUNTY  
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 SR 1158 (AIRPORT BLVD.) FROM  
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 DATE: MAY 2007  
 SHEET 7 OF 15

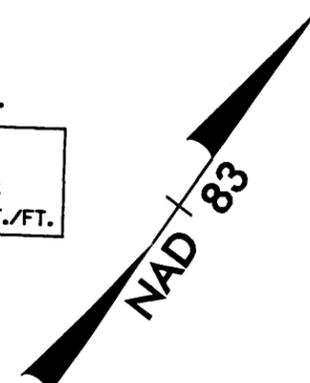
HERITAGE PLACE OF WILSON, LLC

90

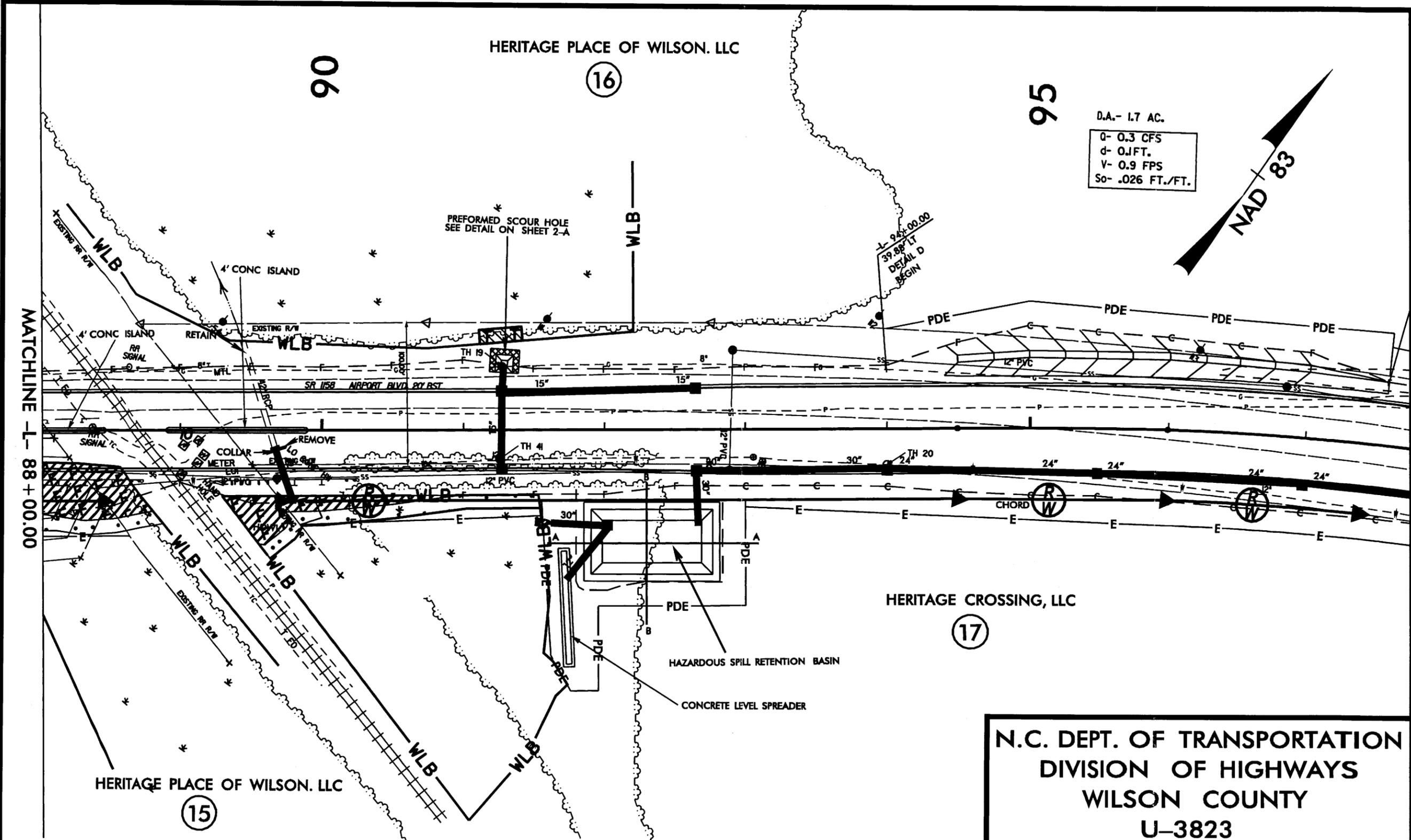
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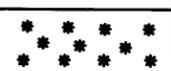
95

D.A. - 1.7 AC.  
 Q - 0.3 CFS  
 d - 0.1 FT.  
 V - 0.9 FPS  
 S<sub>o</sub> - .026 FT./FT.



MATCHLINE - 88+00.00



-  DENOTES TEMPORARY FILL IN WETLANDS
-  DENOTES PERMANENT FILL IN WETLANDS
-  DENOTES MECHANIZED CLEARING IN WETLANDS



HERITAGE CROSSING, LLC

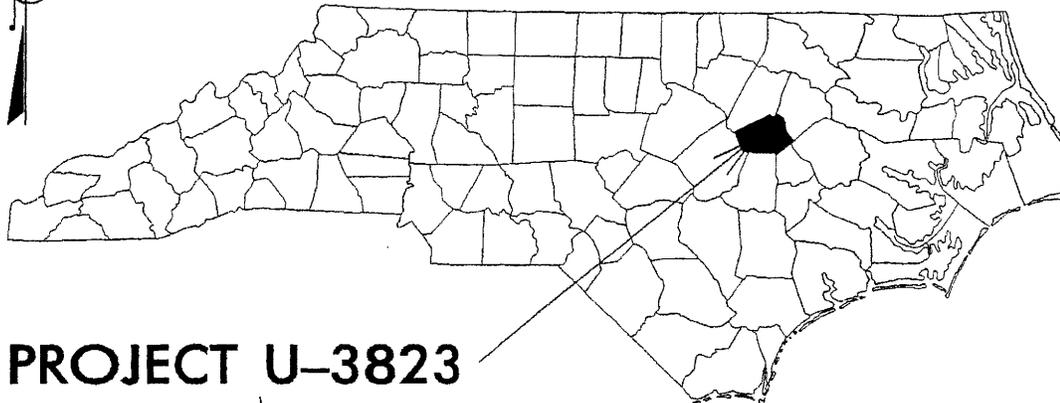
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N.C. DEPT. OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 WILSON COUNTY  
 U-3823  
 SR 1158 (AIRPORT BLVD.) FROM  
 EAST OF NC 42 TO EAST  
 OF US 264-A  
 DATE: MAY 2007  
 SHEET 11 OF 15

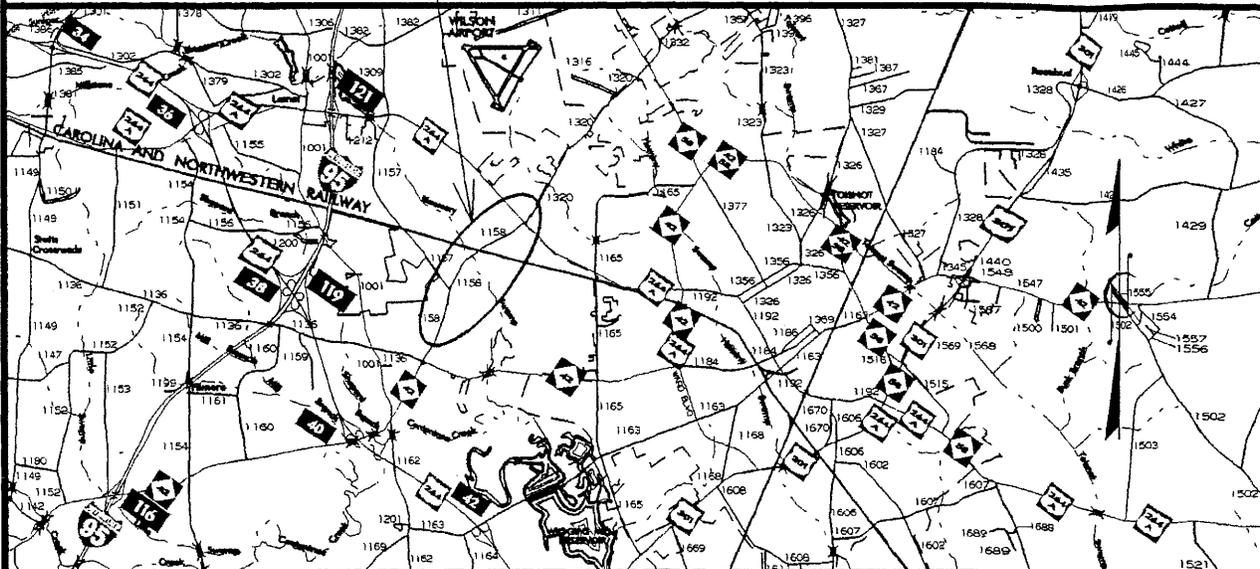


# BUFFER DRAWINGS

## NORTH CAROLINA



## PROJECT U-3823



## VICINITY MAP

N.C. DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
WILSON COUNTY  
U-3823  
SR 1158 (AIRPORT BLVD.) FROM  
EAST OF NC 42 TO EAST  
OF US 264-A  
DATE: APRIL 2007  
SHEET 1 OF 8

GREGORY-THOMAS DEV. CO. INC

14

80

NAD 83

85

HERITAGE PLACE OF WILSON. LLC

16

MATCHLINE -L- 79+00.00

MATCHLINE -L- 88+00.00

WILSON CHRISTIAN SCHOOL

13

HERITAGE PLACE OF WILSON. LLC

15

# SITE 2 IMPACTED NEUSE BUFFER ZONES

100 50 0 100 200



- ALLOWABLE IMPACTS ZONE 1
- ALLOWABLE IMPACTS ZONE 2

N.C. DEPT. OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 WILSON COUNTY  
 U-3823  
 SR 1158 (AIRPORT BLVD.) FROM  
 EAST OF NC 42 TO EAST  
 OF US 264-A  
 DATE: APRIL 2007  
 SHEET 5 OF 8