

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR.
SECRETARY

August 30, 2010

NC Division of Water Quality
2321 Crabtree Blvd., Suite 250
Raleigh, NC 27604

ATTN: Mr. Rob Ridings

Subject: **Application for Neuse Riparian Buffer Authorization**, for the proposed new location of a multi-use path along Edwards Mill Road from Reedy Creek Road to Trinity Road in Wake County, Federal Aid Project No. STP-0520(31); Division 5; TIP No. EB-4978

Dear Sir:

The North Carolina Department of Transportation (NCDOT) proposes to construct a multi-use path that is approximately 1.3 miles long. There will be 3,280 square feet of buffer impacts in Buffer Zone 1 and 2,330 square feet of impacts in Buffer Zone 2 due to erosion control devices (silt fences) and construction access. No waters of the US will be impacted.

Please see enclosed copies of the Pre-Construction Notification (PCN), Stormwater Management Plan, and permit drawings for the above-referenced project. The Categorical Exclusion (CE) was completed in July 2010. Documents were distributed shortly thereafter. Additional copies are available upon request.

This project calls for a letting date of September 21, 2010.

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

TELEPHONE: 919-431-2000
FAX: 919-431-2001
WEBSITE: WWW.NCDOT.ORG

LOCATION:
4701 Atlantic Ave.,
Suite 116
Raleigh, NC 27604

A copy of this permit application will be posted on the NCDOT Website at:
<http://www.ncdot.org/doh/preconstruct/pe/>. If you have any questions or need additional information, please call James Pflaum at (919) 431-6527.

Sincerely,



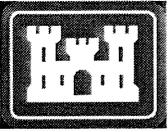
Gregory J. Thorpe, Ph.D
Environmental Management Director, PDEA

w/attachment

Mr. Brian Wrenn, NCDWQ (5 Copies)
Mr. J. Wally Bowman, PE., Division Engineer
Mr. Chris Murray, DEO

W/o attachment (see website for attachments)

Dr. David Chang, P.E., Hydraulics
Mr. Mark Staley, Roadside Environmental
Mr. Greg Perfetti, P.E., Structure Design
Mr. Dewayne Sykes, P.E., Utilities Unit
Mr. Jay Bennett, P.E., Roadway Design
Mr. Majed Alghandour, P. E., Programming and TIP
Mr. Art McMillan, P.E., Highway Design
Mr. Gary Jordan, USFWS
Mr. Travis Wilson, NCWRC
Mr. Kumar Trivedi, Planning Engineer



Office Use Only:
 Corps action ID no. _____
 DWQ project no. _____
 Form Version 1.3 Dec 10 2008

Pre-Construction Notification (PCN) Form

A. Applicant Information

1. Processing

1a. Type(s) of approval sought from the Corps:	<input type="checkbox"/> Section 404 Permit	<input type="checkbox"/> Section 10 Permit
1b. Specify Nationwide Permit (NWP) number: _____ or General Permit (GP) number: _____		
1c. Has the NWP or GP number been verified by the Corps?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
1d. Type(s) of approval sought from the DWQ (check all that apply):		
<input type="checkbox"/> 401 Water Quality Certification – Regular <input type="checkbox"/> Non-404 Jurisdictional General Permit <input type="checkbox"/> 401 Water Quality Certification – Express <input checked="" type="checkbox"/> Riparian Buffer Authorization		
1e. Is this notification solely for the record because written approval is not required?	For the record only for DWQ 401 Certification: <input type="checkbox"/> Yes <input type="checkbox"/> No	For the record only for Corps Permit: <input type="checkbox"/> Yes <input type="checkbox"/> No
1f. Is payment into a mitigation bank or in-lieu fee program proposed for mitigation of impacts? If so, attach the acceptance letter from mitigation bank or in-lieu fee program.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
1g. Is the project located in any of NC's twenty coastal counties. If yes, answer 1h below.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
1h. Is the project located within a NC DCM Area of Environmental Concern (AEC)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

2. Project Information

2a. Name of project:	Edwards Mill Road Greenway
2b. County:	Wake
2c. Nearest municipality / town:	Raleigh
2d. Subdivision name:	<i>not applicable</i>
2e. NCDOT only, T.I.P. or state project no.:	EB-4978

3. Owner Information

3a. Name(s) on Recorded Deed:	North Carolina Department of Transportation
3b. Deed Book and Page No.	<i>not applicable</i>
3c. Responsible Party (for LLC if applicable):	<i>not applicable</i>
3d. Street address:	4701 Atlantic Ave, Suite 116
3e. City, state, zip:	Raleigh, NC 27604
3f. Telephone no.:	(919) 431-6527
3g. Fax no.:	(919) 431-2002
3h. Email address:	jrpfraum@ncdot.gov

4. Applicant Information (if different from owner)	
4a. Applicant is:	<input type="checkbox"/> Agent <input type="checkbox"/> Other, specify:
4b. Name:	<i>not applicable</i>
4c. Business name (if applicable):	
4d. Street address:	
4e. City, state, zip:	
4f. Telephone no.:	
4g. Fax no.:	
4h. Email address:	
5. Agent/Consultant Information (if applicable)	
5a. Name:	<i>not applicable</i>
5b. Business name (if applicable):	
5c. Street address:	
5d. City, state, zip:	
5e. Telephone no.:	
5f. Fax no.:	
5g. Email address:	

B. Project Information and Prior Project History	
1. Property Identification	
1a. Property identification no. (tax PIN or parcel ID):	<i>not applicable</i>
1b. Site coordinates (in decimal degrees):	Latitude: 35.811329 (DD.DDDDDD) Longitude: -78.719135 (-DD.DDDDDD)
1c. Property size:	8 acres
2. Surface Waters	
2a. Name of nearest body of water (stream, river, etc.) to proposed project:	Richlands Creek
2b. Water Quality Classification of nearest receiving water:	C; NSW
2c. River basin:	Neuse
3. Project Description	
3a. Describe the existing conditions on the site and the general land use in the vicinity of the project at the time of this application: Rural due to existing University and State owned research land adjacent to project. Urban due to location within the City of Raleigh.	
3b. List the total estimated acreage of all existing wetlands on the property: 0	
3c. List the total estimated linear feet of all existing streams (intermittent and perennial) on the property: 1437	
3d. Explain the purpose of the proposed project: Improve existing greenway system within the City of Raleigh. The project will connect Reedy Creek Greenway, Loblolly Trail, the Wade mixed use development project, the RBC Center, the Fair Ground, Umstead Park, Prairie Ridge Museum of Natural Sciences, Art Museum, Meredith College and residential areas.	
3e. Describe the overall project in detail, including the type of equipment to be used: The project involves the construction of a multi-use path along Edwards Mill Road from Reedy Creek Road to Trinity Road. Path will be 10 feet wide and run along the eastern side of Edwards Mill Road. Standard construction equipment will be used such as trucks, dozers, and cranes.	
4. Jurisdictional Determinations	
4a. Have jurisdictional wetland or stream determinations by the Corps or State been requested or obtained for this property / project (including all prior phases) in the past? Comments: All perennial streams, No wetlands in project area	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown
4b. If the Corps made the jurisdictional determination, what type of determination was made?	<input type="checkbox"/> Preliminary <input type="checkbox"/> Final
4c. If yes, who delineated the jurisdictional areas? Name (if known):	Agency/Consultant Company: Other:
4d. If yes, list the dates of the Corps jurisdictional determinations or State determinations and attach documentation.	
5. Project History	
5a. Have permits or certifications been requested or obtained for this project (including all prior phases) in the past?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown
5b. If yes, explain in detail according to "help file" instructions.	

6. Future Project Plans	
6a. Is this a phased project?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
6b. If yes, explain.	

C. Proposed Impacts Inventory						
1. Impacts Summary						
1a. Which sections were completed below for your project (check all that apply):						
<input type="checkbox"/> Wetlands		<input type="checkbox"/> Streams - tributaries		<input checked="" type="checkbox"/> Buffers		
<input type="checkbox"/> Open Waters		<input type="checkbox"/> Pond Construction				
2. Wetland Impacts						
If there are wetland impacts proposed on the site, then complete this question for each wetland area impacted.						
2a. Wetland impact number – Permanent (P) or Temporary (T)	2b. Type of impact	2c. Type of wetland (if known)	2d. Forested	2e. Type of jurisdiction (Corps - 404, 10 DWQ – non-404, other)	2f. Area of impact (acres)	
W1 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
W2 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
W3 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
W4 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
W5 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
W6 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
2g. Total wetland impacts					0	
2h. Comments:						
3. Stream Impacts						
If there are perennial or intermittent stream impacts (including temporary impacts) proposed on the site, then complete this question for all stream sites impacted.						
3a. Stream impact number - Permanent (P) or Temporary (T)	3b. Type of impact	3c. Stream name	3d. Perennial (PER) or intermittent (INT)?	3e. Type of jurisdiction (Corps - 404, 10 DWQ – non-404, other)	3f. Average stream width (feet)	3g. Impact length (linear feet)
S1 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
S2 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
S3 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
S4 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
S5 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
S6 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
3h. Total stream and tributary impacts					0	
3i. Comments:						

4. Open Water Impacts

If there are proposed impacts to lakes, ponds, estuaries, tributaries, sounds, the Atlantic Ocean, or any other open water of the U.S. then individually list all open water impacts below.

4a. Open water impact number – Permanent (P) or Temporary (T)	4b. Name of waterbody (if applicable)	4c. Type of impact	4d. Waterbody type	4e. Area of impact (acres)
O1 <input type="checkbox"/> P <input type="checkbox"/> T				
O2 <input type="checkbox"/> P <input type="checkbox"/> T				
O3 <input type="checkbox"/> P <input type="checkbox"/> T				
O4 <input type="checkbox"/> P <input type="checkbox"/> T				
4f. Total open water impacts				

4g. Comments:

5. Pond or Lake Construction

If pond or lake construction proposed, then complete the chart below.

5a. Pond ID number	5b. Proposed use or purpose of pond	5c. Wetland Impacts (acres)			5d. Stream Impacts (feet)			5e. Upland (acres)
		Flooded	Filled	Excavated	Flooded	Filled	Excavated	Flooded
P1								
P2								
5f. Total								

5g. Comments:

5h. Is a dam high hazard permit required?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	If yes, permit ID no:
5i. Expected pond surface area (acres):			
5j. Size of pond watershed (acres):			
5k. Method of construction:			

6. Buffer Impacts (for DWQ)

If project will impact a protected riparian buffer, then complete the chart below. If yes, then individually list all buffer impacts below. If any impacts require mitigation, then you **MUST** fill out Section D of this form.

6a. Project is in which protected basin?			<input checked="" type="checkbox"/> Neuse <input type="checkbox"/> Tar-Pamlico <input type="checkbox"/> Other: <input type="checkbox"/> Catawba <input type="checkbox"/> Randleman		
6b. Buffer impact number – Permanent (P) or Temporary (T)	6c. Reason for impact	6d. Stream name	6e. Buffer mitigation required?	6f. Zone 1 impact (square feet)	6g. Zone 2 impact (square feet)
B1 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Greenway	UT to Richlands Creek	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	215	705
B2 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Greenway	UT to Richlands Creek	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	1055	730
B3 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Greenway	UT to Richlands Creek	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2010	895
6h. Total buffer impacts				3280	2330
6i. Comments:					

D. Impact Justification and Mitigation		
1. Avoidance and Minimization		
1a. Specifically describe measures taken to avoid or minimize the proposed impacts in designing project. The multi-use path is 10 feet wide (minimum safe width) in accordance with AASHTO "Guide for Development of Bicycle Facilities". All permanent fill slopes are at 2:1 and have been designed within existing highway fill slopes to avoid additional permanent buffer impacts. There will be no direct discharge or fill into existing buffers. There will be no impacts to waters of the US.		
1b. Specifically describe measures taken to avoid or minimize the proposed impacts through construction techniques. NCDOT will implement Best Management practices (BMP's) for Highway Construction.		
2. Compensatory Mitigation for Impacts to Waters of the U.S. or Waters of the State		
2a. Does the project require Compensatory Mitigation for impacts to Waters of the U.S. or Waters of the State?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No No impacts to U.S. or Waters of the State.
2b. If yes, mitigation is required by (check all that apply):	<input type="checkbox"/> DWQ	<input type="checkbox"/> Corps
2c. If yes, which mitigation option will be used for this project?	<input type="checkbox"/> Mitigation bank <input type="checkbox"/> Payment to in-lieu fee program <input type="checkbox"/> Permittee Responsible Mitigation	
3. Complete if Using a Mitigation Bank		
3a. Name of Mitigation Bank: not applicable		
3b. Credits Purchased (attach receipt and letter)	Type	Quantity
3c. Comments:		
4. Complete if Making a Payment to In-lieu Fee Program		
4a. Approval letter from in-lieu fee program is attached.	<input type="checkbox"/> Yes	
4b. Stream mitigation requested:	linear feet	
4c. If using stream mitigation, stream temperature:	<input type="checkbox"/> warm <input type="checkbox"/> cool <input type="checkbox"/> cold	
4d. Buffer mitigation requested (DWQ only):	square feet	
4e. Riparian wetland mitigation requested:	acres	
4f. Non-riparian wetland mitigation requested:	acres	
4g. Coastal (tidal) wetland mitigation requested:	acres	
4h. Comments:		
5. Complete if Using a Permittee Responsible Mitigation Plan		
5a. If using a permittee responsible mitigation plan, provide a description of the proposed mitigation plan.		

6. Buffer Mitigation (State Regulated Riparian Buffer Rules) – required by DWQ					
6a. Will the project result in an impact within a protected riparian buffer that requires buffer mitigation?				<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
6b. If yes, then identify the square feet of impact to each zone of the riparian buffer that requires mitigation. Calculate the amount of mitigation required.					
Zone	6c. Reason for impact	6d. Total impact (square feet)	Multiplier	6e. Required mitigation (square feet)	
Zone 1			3 (2 for Catawba)		
Zone 2			1.5		
			6f. Total buffer mitigation required:		
6g. If buffer mitigation is required, discuss what type of mitigation is proposed (e.g., payment to private mitigation bank, permittee responsible riparian buffer restoration, payment into an approved in-lieu fee fund).					
6h. Comments:					

E. Stormwater Management and Diffuse Flow Plan (required by DWQ)	
1. Diffuse Flow Plan	
1a. Does the project include or is it adjacent to protected riparian buffers identified within one of the NC Riparian Buffer Protection Rules?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1b. If yes, then is a diffuse flow plan included? If no, explain why. Comments: See Permit Drawings	<input type="checkbox"/> Yes <input type="checkbox"/> No
2. Stormwater Management Plan	
2a. What is the overall percent imperviousness of this project?	n/a %
2b. Does this project require a Stormwater Management Plan?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2c. If this project DOES NOT require a Stormwater Management Plan, explain why:	
2d. If this project DOES require a Stormwater Management Plan, then provide a brief, narrative description of the plan: See enclosed	
2e. Who will be responsible for the review of the Stormwater Management Plan?	<input type="checkbox"/> Certified Local Government <input type="checkbox"/> DWQ Stormwater Program <input type="checkbox"/> DWQ 401 Unit
3. Certified Local Government Stormwater Review	
3a. In which local government's jurisdiction is this project?	not applicable
3b. Which of the following locally-implemented stormwater management programs apply (check all that apply):	<input type="checkbox"/> Phase II <input type="checkbox"/> NSW <input type="checkbox"/> USMP <input type="checkbox"/> Water Supply Watershed <input type="checkbox"/> Other:
3c. Has the approved Stormwater Management Plan with proof of approval been attached?	<input type="checkbox"/> Yes <input type="checkbox"/> No
4. DWQ Stormwater Program Review	
4a. Which of the following state-implemented stormwater management programs apply (check all that apply):	<input type="checkbox"/> Coastal counties <input type="checkbox"/> HQW <input type="checkbox"/> ORW <input type="checkbox"/> Session Law 2006-246 <input type="checkbox"/> Other:
4b. Has the approved Stormwater Management Plan with proof of approval been attached?	<input type="checkbox"/> Yes <input type="checkbox"/> No
5. DWQ 401 Unit Stormwater Review	
5a. Does the Stormwater Management Plan meet the appropriate requirements?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5b. Have all of the 401 Unit submittal requirements been met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

F. Supplementary Information	
1. Environmental Documentation (DWQ Requirement)	
1a. Does the project involve an expenditure of public (federal/state/local) funds or the use of public (federal/state) land?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1b. If you answered "yes" to the above, does the project require preparation of an environmental document pursuant to the requirements of the National or State (North Carolina) Environmental Policy Act (NEPA/SEPA)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1c. If you answered "yes" to the above, has the document review been finalized by the State Clearing House? (If so, attach a copy of the NEPA or SEPA final approval letter.) Comments:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2. Violations (DWQ Requirement)	
2a. Is the site in violation of DWQ Wetland Rules (15A NCAC 2H .0500), Isolated Wetland Rules (15A NCAC 2H .1300), DWQ Surface Water or Wetland Standards, or Riparian Buffer Rules (15A NCAC 2B .0200)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2b. Is this an after-the-fact permit application?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2c. If you answered "yes" to one or both of the above questions, provide an explanation of the violation(s):	
3. Cumulative Impacts (DWQ Requirement)	
3a. Will this project (based on past and reasonably anticipated future impacts) result in additional development, which could impact nearby downstream water quality?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3b. If you answered "yes" to the above, submit a qualitative or quantitative cumulative impact analysis in accordance with the most recent DWQ policy. If you answered "no," provide a short narrative description. Due to the minimal transportation impact resulting from this green way construction, this project will neither influence nearby land uses nor stimulate growth. Therefore, a detailed indirect or cumulative effects study will not be necessary.	
4. Sewage Disposal (DWQ Requirement)	
4a. Clearly detail the ultimate treatment methods and disposition (non-discharge or discharge) of wastewater generated from the proposed project, or available capacity of the subject facility. not applicable	

5. Endangered Species and Designated Critical Habitat (Corps Requirement)		
5a. Will this project occur in or near an area with federally protected species or habitat?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
5b. Have you checked with the USFWS concerning Endangered Species Act impacts?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
5c. If yes, indicate the USFWS Field Office you have contacted.	<input checked="" type="checkbox"/> Raleigh	<input type="checkbox"/> Asheville
5d. What data sources did you use to determine whether your site would impact Endangered Species or Designated Critical Habitat? <p>As of January 31, 2008 the USFWS lists three protected species in Wake County, Michaux's sumac, the red-cockaded woodpecker, and the dwarf wedgemussel. Marginal habitat for Michaux's sumac is present in the project area. Surveys for Michaux's sumac were conducted on June 18, 2010, no individuals were found. No suitable nesting trees were observed within the project area for the red-cockaded woodpecker. Surveys for the red-cockaded woodpecker were conducted on June 18, 2010, no individuals were found. No suitable habitat was found for the dwarf wedgemussel. Surveys for the dwarf wedgemussel were conducted on June 22, 2010, no individuals were found. A review of NCNHP records, updated July 2010, indicated that none of the above mentioned species were located within 1.0 mile of the project area. This project will have No Effect on Michaux's sumac, red-cockaded woodpecker, or the dwarf wedgemussel.</p> <p>Suitable foraging habitat for the Bald eagle is not present in the study area or within 660 feet of the study area.</p>		
6. Essential Fish Habitat (Corps Requirement)		
6a. Will this project occur in or near an area designated as essential fish habitat?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
6b. What data sources did you use to determine whether your site would impact Essential Fish Habitat? NMFS County Index		
7. Historic or Prehistoric Cultural Resources (Corps Requirement)		
7a. Will this project occur in or near an area that the state, federal or tribal governments have designated as having historic or cultural preservation status (e.g., National Historic Trust designation or properties significant in North Carolina history and archaeology)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
7b. What data sources did you use to determine whether your site would impact historic or archeological resources? Categorical Exclusion EB-4978 completed July 22, 2010		
8. Flood Zone Designation (Corps Requirement)		
8a. Will this project occur in a FEMA-designated 100-year floodplain?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
8b. If yes, explain how project meets FEMA requirements: Hydraulics Unit coordinating with FEMA		
8c. What source(s) did you use to make the floodplain determination? FEMA maps		
Gregory J. Thorpe, Ph D Applicant/Agent's Printed Name	 Applicant/Agent's Signature <small>(Agent's signature is valid only if an authorization letter from the applicant is provided.)</small>	8-30-10 Date

STORMWATER MANAGEMENT PLAN

TIP No. E-4978

Wake County

August 2010

Hydraulics Designer : Paul A. Jordan, PE

Hydraulics Project Manager : Jerry L. Lindesy, PE

Project Description

This project consists of constructing a greenway along Edwards Mill Road from Trinity Drive to Reedy Creek Road. Edwards Mill Road is a multi-lane arterial road located in the city limits of Raleigh. Parts of the existing Road is curb and gutter and other parts has 5 to 10 ft shoulder. The proposed greenway is 10 ft wide with safety fence in required areas. Major Construction will consist of grading and paving the greenway and also adding curb and drainage to Edwards Mill Road.

Project Involvement

The project will not require widening of the existing road/fill. The drainage at the site consists of drainage ditches, pipes and the use of existing storm drain system. Richlands Creek is classified as C; NSW.

Best Management Practices

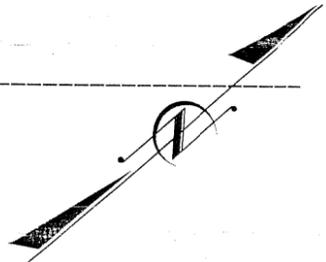
Best Management Practices (BMPs) utilized on the project are as follows:

- No direct discharge into buffers.
- 2:1 side slopes on fill sections to minimize impacts.
- No fill in Buffers

STATE OF NORTH CAROLINA
 DIVISION OF BICYCLE AND
 PEDESTRIAN TRANSPORTATION

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	E-4978	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

Buffer Drawing
 Sheet 1 of 1

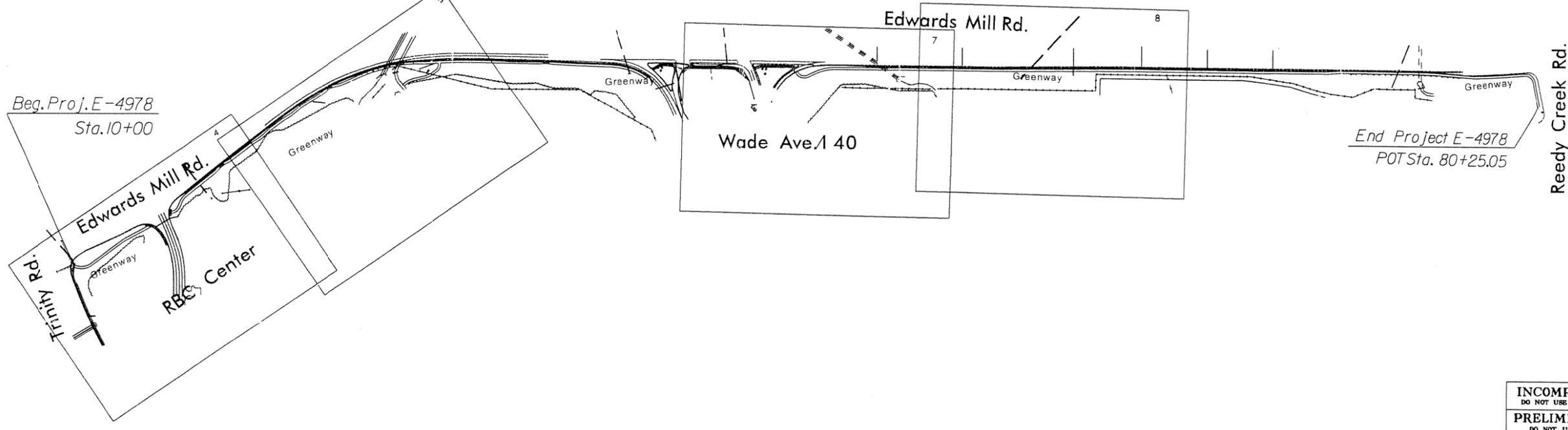
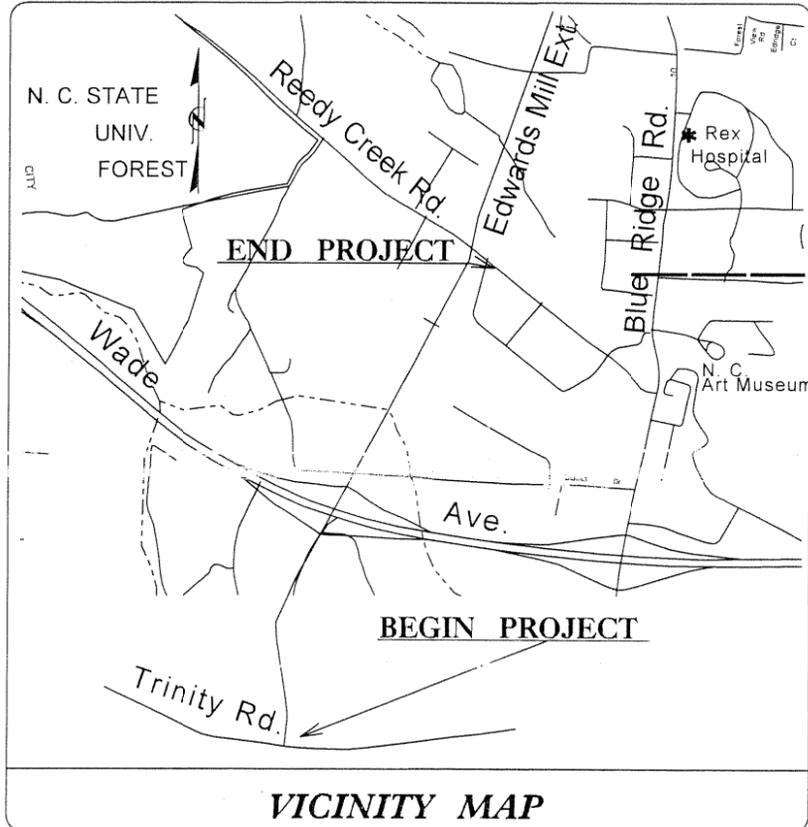


Wake County

LOCATION: Along Edwards Mill Rd. From Trinity Rd.
To Reedy Creek Rd. Pedestrian Culvert

TYPE OF WORK: Grading, Paving, Drainage, and Structure

BUFFER PERMIT



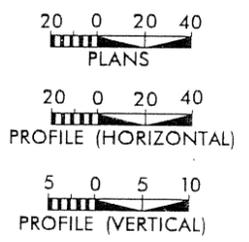
PROJECT: E-4978

INCOMPLETE PLANS
 DO NOT USE FOR R/W ACQUISITION
 PRELIMINARY PLANS
 DO NOT USE FOR CONSTRUCTION

INDEX OF SHEETS

SHEET 1 TITLE SHEET	SHEETS 4 THRU PLAN SHEETS
SHEET 1-A SYMBOL SHEET	SHEETS ___ THRU PROFILE SHEETS
SHEET 2 PAVEMENT SCHEDULE TYPICAL SECTION	SHEETS TCP-1 THRU TCP-... PAVEMENT MARKING PLANS SIGNING PLANS
SHEET 2-A BOLLARD DETAILS TRAIL CONNECTION DETAIL SIGN PLACEMENT DETAIL	SHEETS EC-1 THRU EC-... EROSION CONTROL PLANS
SHEET 3 PIPE SUMMARY EARTHWORK SUMMARY GENERAL NOTES LIST OF STANDARDS	SHEETS X-1 THRU X-... CROSS-SECTIONS

GRAPHIC SCALES



HYDRAULICS ENGINEER

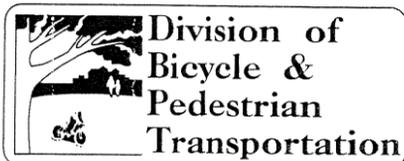
 SIGNATURE: P.E.

BICYCLE FACILITY DESIGN ENGINEER

 SIGNATURE: P.E.



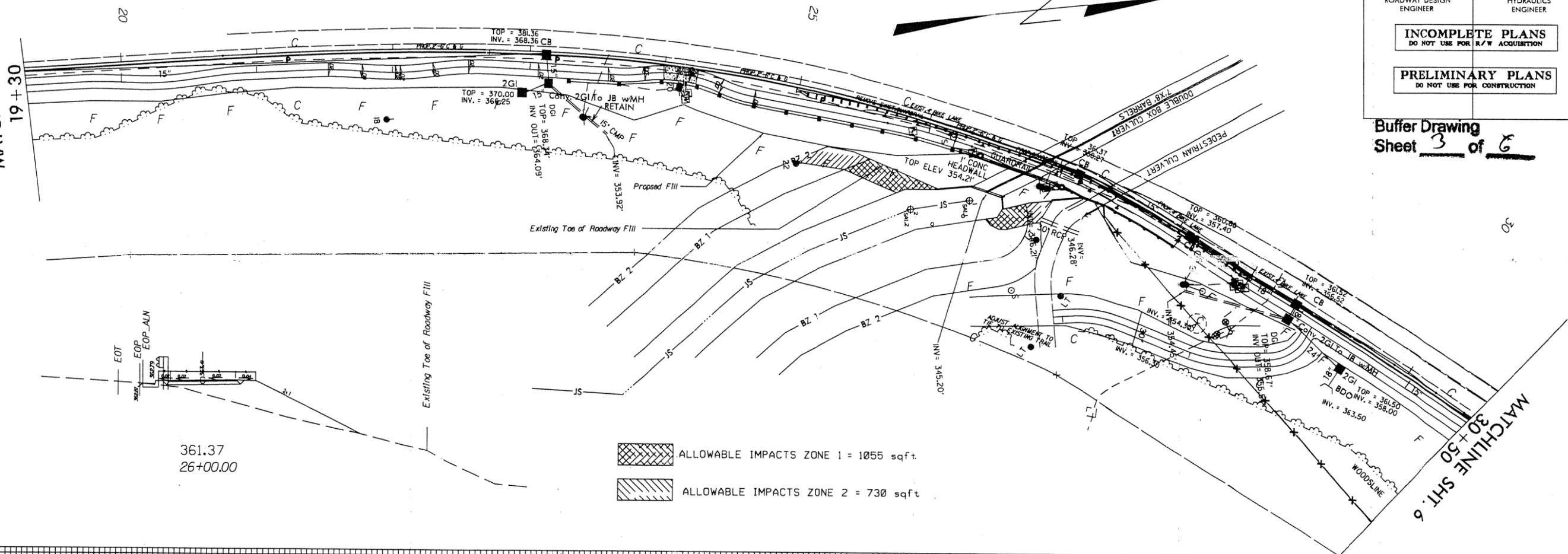
PROJECT LENGTH
 TRAIL: 7025 /1.33 FEET / MILES
DESIGN DATA
 V = 20 MPH
2006 SPECIFICATIONS



THOMAS P. NORMAN
 DIRECTOR

Buffer Drawing
Sheet 3 of 6

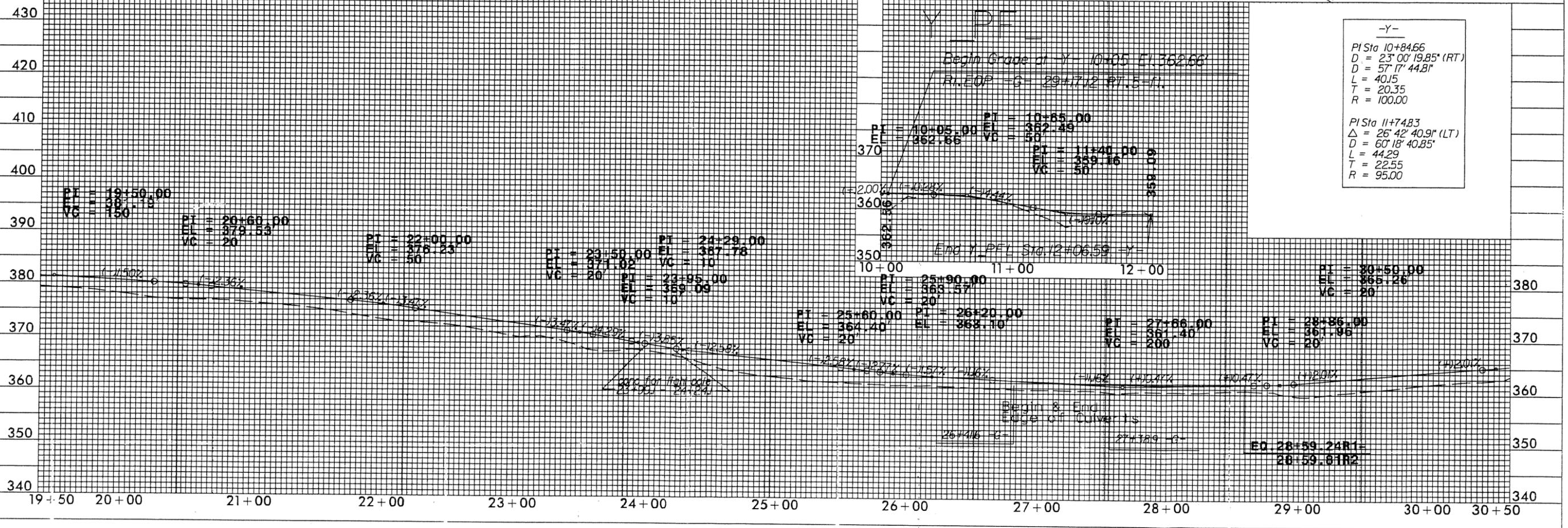
MATCHLINE SHT. 4
19+30



361.37
26+00.00

- ALLOWABLE IMPACTS ZONE 1 = 1055 sqft.
- ALLOWABLE IMPACTS ZONE 2 = 730 sqft.

MATCHLINE SHT. 6
30+50

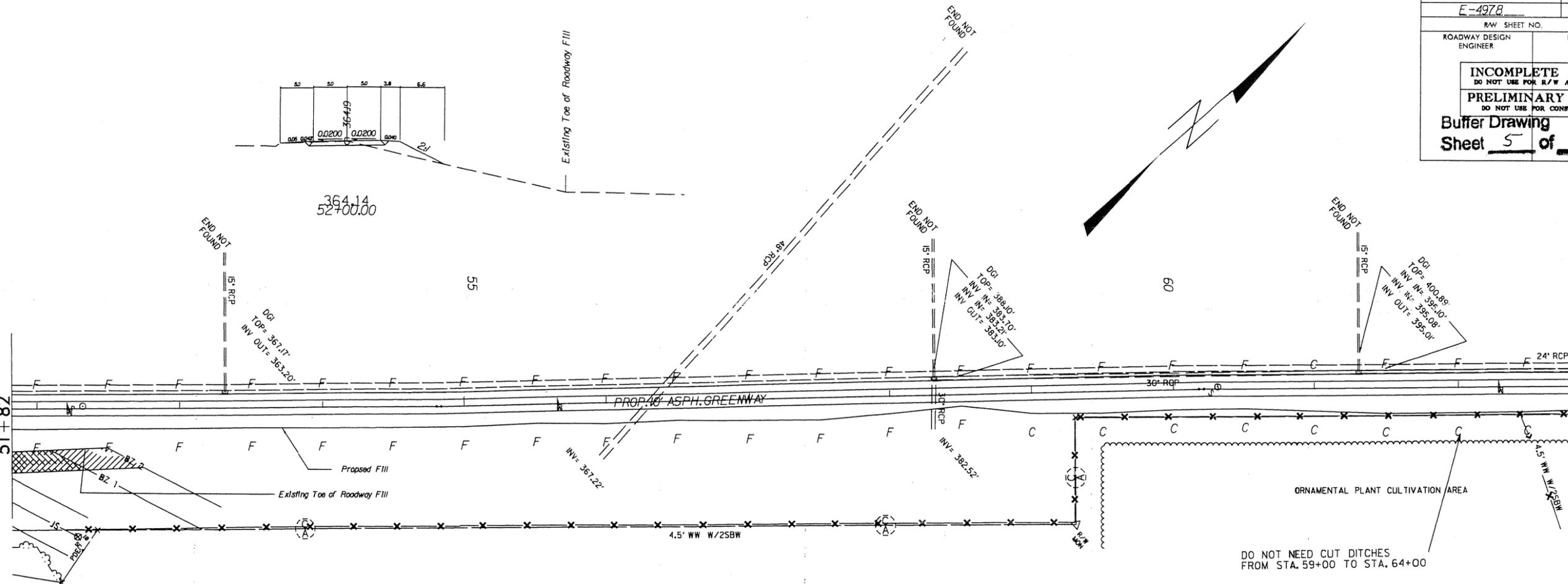


SYSTEM TIME: 11/17/99 11:50:55
 USER: JRM/ML/SS/SS

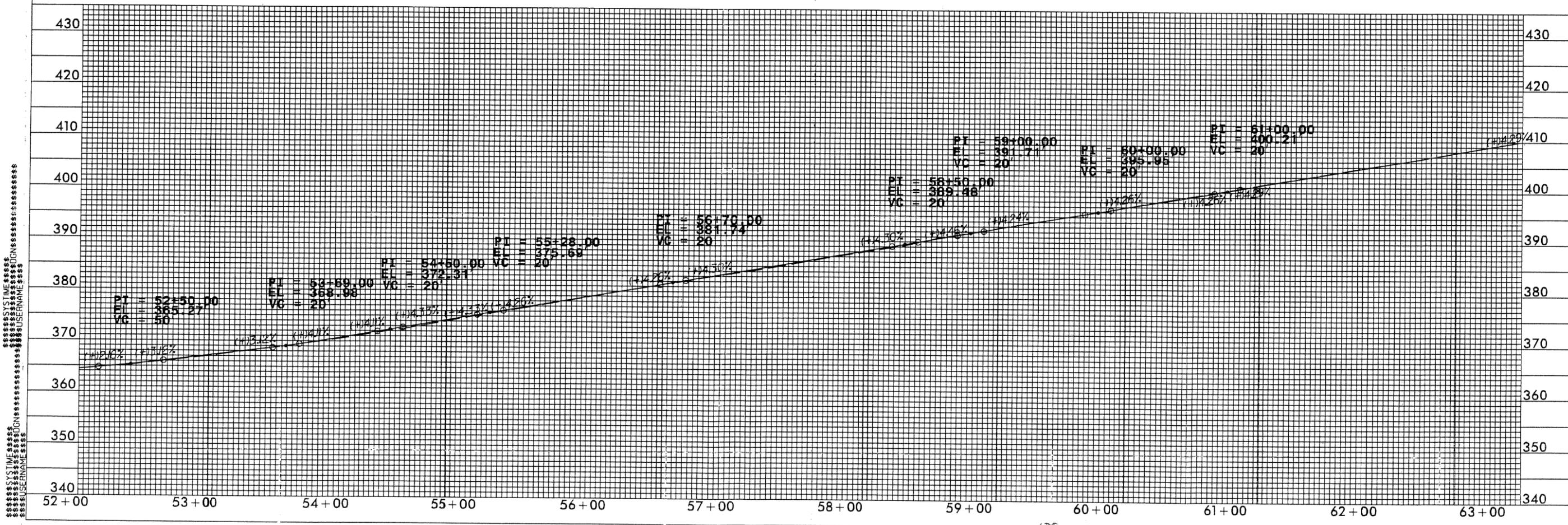
8/17/99

PROJECT REFERENCE NO. E-497B	SHEET NO. 8
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	
Buffer Drawing Sheet 5 of 6	

MATCHLINE SHT. 7
51+82



MATCHLINE SHT. 9
62+82



Proposed Improvements (provide details, attach exhibits as necessary):

The proposed Edwards Mill Road Greenway includes a 10' wide asphalt/concrete multi-use trail with grassed shoulders for approximately 1.2 miles along east shoulder of Edwards Mill Road from the intersection of Trinity Road to the existing pedestrian culvert near Reedy Creek Road intersection (see attached Title Sheet with index map and Typical Section Sheet). The project also includes curb and gutter along the east side of Edwards Mill Road from RBC Center Entrance Drive to the on-ramp at the Wade Avenue interchange. In addition, an eight foot wide sidewalk is proposed along the north shoulder of Trinity Road from existing sidewalk to the beginning of the project and on the south shoulder of the RBC Center Entrance Drive from existing sidewalk to the intersection (See attached plan sheets)

See attached SHPO "No Survey Required Form"

Special Information: (Include environmental commitments, permits):

See attached CA fence removal and relocation approval from NCDOT Division Engineer.

Threshold Criteria

Please answer each question. If a response falls within a Yes/No "box", then supporting documentation of the impact should be included.

<u>ECOLOGICAL</u>	<u>YES</u>	<u>NO</u>
(1) Will the project have a substantial impact on any unique or important natural resource?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
(2) Does the project involve habitat where federally listed endangered or threatened species may occur?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
(3) Will the project affect anadromous fish?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
(4) If the project involves wetlands, is the amount of permanent and/or temporary wetland taking less than one-third (1/3) of an acre and have all practicable measures to avoid and minimize wetland takings been evaluated? If no wetlands are involved, write "N/A".	<u>NA</u>	<input type="checkbox"/>
(5) Will the project require the use of U. S. Forest Service lands?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
(6) Will the quality of adjacent water resources be adversely impacted by proposed construction activities?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
(7) Does the project involve waters classified as Outstanding Water Resources and/or High Quality Waters?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
(8) Will the project require fill in waters of the United States	<input type="checkbox"/>	<input type="checkbox"/>

- | | | | |
|-----|--|--------------------------|----------|
| | in any of the designated mountain trout counties? | <input type="checkbox"/> | <u>X</u> |
| (9) | Does the project involve any known underground storage tanks (UST's) or hazardous materials sites? | <input type="checkbox"/> | <u>X</u> |

PERMITS AND COORDINATION

YES **NO**

- | | | | |
|------|--|--------------------------|-----------|
| (10) | If the project is located within a CAMA county, will the Project significantly affect the coastal zone and/or any "Area of Environmental Concern" (AEC)? | <input type="checkbox"/> | <u>NA</u> |
| (11) | Does the project involve Coastal Barrier Resources Act Resources? | <input type="checkbox"/> | <u>X</u> |
| (12) | Will a U. S. Coast Guard permit be required? | <input type="checkbox"/> | <u>X</u> |
| (13) | Will the project result in the modification of any existing regulatory floodway? | <input type="checkbox"/> | <u>X</u> |
| (14) | Will the project require any stream relocations or channel changes? | <input type="checkbox"/> | <u>X</u> |

SOCIAL, ECONOMIC, AND CULTURAL RESOURCES

YES **NO**

- | | | | |
|------|---|--------------------------|--------------------------|
| (15) | Will the project induce substantial impacts to planned growth or land use for the area? | <input type="checkbox"/> | <u>X</u> |
| (16) | Will the project require the relocation of any family or business? | <input type="checkbox"/> | <u>X</u> |
| (17) | Will the project have a disproportionately high and adverse human health and environmental effect on any minority or low-income population? | <input type="checkbox"/> | <u>X</u> |
| (18) | If the project involves the acquisition of right of way, is the amount of right of way acquisition considered minor? | <u>X</u> | <input type="checkbox"/> |
| (19) | Will the project involve any changes in access control? | <u>X</u> | <input type="checkbox"/> |
| (20) | Will the project substantially alter the usefulness and/or land use of adjacent property? | <input type="checkbox"/> | <u>X</u> |
| (21) | Will the project have an adverse effect on permanent local traffic patterns or community cohesiveness? | <input type="checkbox"/> | <u>X</u> |
| (22) | Is the project included in an approved thoroughfare plan and/or Transportation Improvement Program (and is | | |

	therefore, in conformance with the Clean Air Act of 1990)?	<u>X</u>	<input type="checkbox"/>
(23)	Is the project anticipated to cause an increase in traffic volumes?	<input type="checkbox"/>	<u>X</u>
(24)	Will traffic be maintained during construction using existing roads, staged construction, or on-site detours?	<u>X</u>	<input type="checkbox"/>
(25)	If the project is a bridge replacement project, will the bridge be replaced at its existing location (along the existing facility) and will all construction proposed in association with the bridge replacement project be contained on the existing facility?	<u>NA</u>	<input type="checkbox"/>
(26)	Is there substantial controversy on social, economic, or environmental grounds concerning the project?	<input type="checkbox"/>	<u>X</u>
(27)	Is the project consistent with all Federal, State, and local laws relating to the environmental aspects of the project?	<u>X</u>	<input type="checkbox"/>
(28)	Will the project have an "effect" on structures/properties eligible for or listed on the National Register of Historic Places?	<input type="checkbox"/>	<u>X</u>
(29)	Will the project affect any archaeological remains which are important to history or pre-history?	<input type="checkbox"/>	<u>X</u>
(30)	Will the project require the use of Section 4(f) resources (public parks, recreation lands, wildlife and waterfowl Refuges, historic sites, or historic bridges, as defined in Section 4(f) of the U. S. DOT Act of 1966)?	<input type="checkbox"/>	<u>X</u>
(31)	Will the project result in any conversion of assisted public recreation sites or facilities to non-recreation uses, as defined by Section 6(f) of the Land and Water Conservation Act of 1965, as amended?	<input type="checkbox"/>	<u>X</u>
(32)	Will the project involve construction in, across, or adjacent to a river designated as a component of or proposed For inclusion in the Natural System of Wild and Scenic Rivers?	<input type="checkbox"/>	<u>X</u>

Additional Documentation Required for Unfavorable Responses:
(Unfavorable responses from the section above would include any "checked" boxes. For example, under the Yes/No columns, unfavorable responses are identified on this form by an outline. Favorable responses are identified by underlining. Additional supporting documentation should be attached, as necessary)

(19) Will the project involve any changes in access control?

The Edwards Mill Road Greenway is proposed to be within the NCDOT Right of Way and portion of the greenway lies within the controlled access right of way of Wade Avenue Interchange along east shoulder of Edwards Mill Road. The NCDOT Division of Bicycle and Pedestrian Transportation made a formal request to the NCDOT Right of Way Disposal and Control of Access Review Committee to allow encroachment into the existing control of access right of way along SR 3009 (Edwards Mill Road) in Raleigh. The encroachment was approved by the committee during the review meeting on May 12, 2009. The approval states that the committee is supportive of the multi-use trail within the existing control of access and recommends reducing the control of access limits from approximate Station 27+60 Rt. to approximate Station 29+15 Rt..

Categorical Exclusion Approval

Prepared by:

06-02-10

Kumar Trivedi, P.E., NCDOT Division of Bicycle and Pedestrian Transportation

Date

Name, Title, Company/Agency

Note: professional qualifications may be required.

For Official Use Only

Reviewed by:

7/9/10
Date

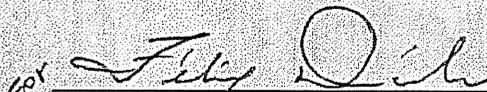


Reviewer

Project Development & Environmental Analysis Branch
North Carolina Department of Transportation

Approved by:

7/22/10
Date



Division Administrator

Federal Highway Administration

TIP No. EB-4978

F.A. No. STP-0520(31)



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR.
SECRETARY

June 25, 2010

MEMORANDUM TO: Kumar Trivedi, Project Engineer
FROM: James Pflaum, Environmental Specialist
SUBJECT: EB-4978 Protected Species Survey

This memo serves to update the status of Michaux's sumac (*Rhus michauxii*) for project EB-4978, Edwards Mill Road Greenway, from intersection at Reedy Creek to Trinity Road.

On June 18, 2010 North Carolina Department of Transportation (NCDOT) biologists James Pflaum, and Jason Mays surveyed for Michaux's sumac within the project area (west bound shoulder of Edwards Mill road within NCDOT Right of Way). Surveys were conducted on foot with complete visual coverage of potential habitat. Potential habitat is located within the project area along the roadside shoulder and within areas maintained for utility access. Dominant species included Johnson's grass, orchard grass, fescue, black cherry, black berry, Bradford pear, loblolly pine, lespedeza cuneata, poison ivy, winged sumac, smooth sumac, wax myrtle, sweet gum, wild grape, mimosa, Japanese grass, and cat's ear. No specimens were observed during the 3 man-hour survey, therefore, a biological conclusion of "No Effect" has been determined.

Qualifications of Principal Investigators

Investigator: James Pflaum
Education: B.S., Biology, Elon College
M.S., Biology, Appalachian State University

Experience: Environmental Specialist, NC DOT, January 2007 to Present
Environmental Specialist, NC Emergency Management, March 2006 to January 2007
Biological Tech (Fisheries), US Forest Service, Petersburg, AK, May 2005 to Oct. 2005
Conservation Project Leader, International Student Volunteers, Sydney, Australia, May 2004 to August 2004

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

TELEPHONE: 919-431-2000
FAX: 919-431-2001

WEBSITE: WWW.NCDOT.ORG

LOCATION:
4701 Atlantic Ave.,
Suite 116
Raleigh, NC 27604

Investigator: Jason Mays

Education: B.S. Biological Sciences, UNC Chapel Hill
M.S. Fisheries and Wildlife Science, NC State

Experience: NCWRC Field Biologist May 2002-October 2003
Environmental Specialist, NCDOT, March 2003- Present



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR.
SECRETARY

June 28, 2010

Memorandum To: James Pflaum, Environmental Specialist
Natural Environment Unit, Project Management Group

From: Steve Mitchell, Environmental Supervisor *SEM*
Natural Environment Unit, Biological Surveys Group

Subject: Mussel Survey/Habitat Assessment for Proposed Edwards Mill Road Greenway from
Reedy Creek Road to Trinity Road in Raleigh, North Carolina TIP # EB -4978

The North Carolina Department of Transportation (NCDOT) proposes to construct Edwards Mill Road Greenway, a bicycle/pedestrian trail, along Edwards Mill Road from its junction with Trinity Road to the underpass near Reedy Creek Road. This proposed greenway trail crosses an unnamed tributary (UT) to Richlands Creek and an unnamed tributary to the unnamed tributary. This project is located in the Neuse River Basin and the USFWS lists dwarf wedgemussel (*Alasmidonta heterodon*) as potentially occurring in Wake County.

The dwarf wedgemussel is most closely associated with stable beds of coarse sand and gravel in relatively fast flowing, well oxygenated water. Stream banks are usually stable with extensive root systems holding soils in place and the trees that are relatively mature which tend to form a closed canopy.

A mussel habitat assessment of the project area was conducted by NCDOT biologists, Karen M. Lynch (Permit No. NC-2007-ES165) and Steve Mitchell on June 22, 2010. The reach of the two unnamed tributaries within the study area does not contain suitable habitat for the dwarf wedgemussel. The stream substrate composition was unconsolidated gravel and sand with some boulders present. Stream flow was slow but subject to "flashiness" as the UTs drain urban areas.

A review of the North Carolina Natural Heritage Program (NCNHP) records, updated April 13, 2010 also indicate there are no populations of the dwarf wedgemussel known to occur within Richland Creek subbasin, or within 1.0 mile of the study area. The only current record of dwarf wedgemussel in Wake County is on the Wake/Johnston County line in Swift Creek (Neuse River Basin).

Biological Determination: No Effect for dwarf wedgemussel

cc: Kumar Trivedi, PDEA-Bridge Group

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

TELEPHONE: 919-431-2000
FAX: 919-431-2001
WEBSITE: WWW.NCDOT.ORG

LOCATION:
ENVIRONMENTAL RESOURCES CENTER
4701 ATLANTIC AVENUE, STE. 116
RALEIGH, NC 27604



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR.
SECRETARY

March 18, 2010

Mr. Tom Norman
Director
Division of Bicycle and Pedestrian Transportation
1552 Mail Service Center
Raleigh, NC 27699-1522

Subject: Edwards Mill Road Greenway from Trinity Road to Reedy Creek Road
Pedestrian Culvert in Wake County. TIP No. E-4978

Dear Sir:

The NCDOT proposes to construct a multi-use path with grassed shoulders termed the Edwards Mill Road Greenway from Trinity Road to Reedy Creek Road Pedestrian Culvert in Wake County. The project description indicates construction of new curb and gutter from RBC Center Drive to the on-ramp at the Wade Avenue Interchange. Note that this design will require an investigation of stormwater runoff from the project in regards to compliance with the Neuse River Basin Riparian Buffer Rule.

I had the opportunity to walk the project and review jurisdictional issues. Environmental information was obtained from USGS Topographic Maps, Wake County iMaps and Soil Survey of Wake County. The findings of my visit are noted below:

Station 17+00 Rt

- A jurisdictional stream is located at the outlet of the existing 48 inch pipe structure. Note that the flow direction is incorrectly identified on the plan.
- This channel is located on both the USGS Topographic Map and Soil Survey of Wake County. Accordingly, the channel is subject to the Neuse River Riparian Buffer Rule. Buffer Zones 1 and 2 should be depicted on both sides of the channel. Note that the riparian buffer terminates at the existing transportation facility (usually the toe of fill).

Station 26+50 Rt

- A jurisdictional stream is located at the inlet of the existing two-barrel culvert.
- The plan should be revised to depict both sides of the stream (top of bank).
- This channel is located on both the USGS Topographic Map and Soil Survey of Wake County. Accordingly, the channel is subject to the Neuse River Riparian Buffer Rule. Buffer Zones 1 and 2 should be depicted on both sides of the channel. Note that the riparian buffer terminates at the existing transportation facility (usually the toe of fill).

Station 11+90 Rt/Lt -Y-

-The plan should be revised to depict the pipe structure and rip rap pad at this location.

Near 29+00 Rt

-The plan should be revised to depict the rip rap-lined ditch at this location.

-A review of the Soil Survey of Wake County indicates a "channel" is identified near this location. Accordingly, the channel is subject to the Neuse River Riparian Buffer Rule. An on-site determination of this "channel" should be conducted by the NCDENR-DWQ.

Station 37+80 Rt

-The plan should be revised to depict a rip rap-lined ditch at the inlet of the pipe structure.

-A review of the USGS Topographic Map and Soil Survey of Wake County indicates a "channel" is identified at this location. Accordingly, the channel is subject to the Neuse River Riparian Buffer Rule. An on-site determination of this "channel" should be conducted by the NCDENR-DWQ.

Station 50+50 Rt

-A jurisdictional stream is located at the inlet of the existing two-barrel culvert.

-This channel is located on both the USGS Topographic Map and Soil Survey of Wake County. Accordingly, the channel is subject to the Neuse River Riparian Buffer Rule. Buffer Zones 1 and 2 should be depicted on both sides of the channel. Note that the riparian buffer terminates at the existing transportation facility (usually the toe of fill).

Station 56+00 Rt

-The plan should be revised to depict a rip rap-lined ditch at the outlet of the pipe structure.

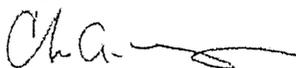
-A review of the Soil Survey of Wake County indicates a "channel" is identified at this location. Accordingly, the channel is subject to the Neuse River Riparian Buffer Rule. An on-site determination of this "channel" should be conducted by the NCDENR-DWQ.

Station 68+00 to end of project Rt

-A review of the Soil Survey of Wake County indicates a "channel" is located near the south side of the proposed alignment. Accordingly, the channel is subject to the Neuse River Riparian Buffer Rule. An on-site determination of this "channel" should be conducted by the NCDENR-DWQ to determine the extent and limits of jurisdiction. Buffer Zones 1 and 2 should be depicted on both sides of the channel if it is subject to jurisdiction.

If you have any questions or need additional information, please contact me at (919) 220-4633.

Sincerely,



Christopher A. Murray, P.W.S.
Environmental Supervisor

NO PREHISTORIC OR HISTORIC PROPERTIES PRESENT FORM

PROJECT INFORMATION

Project No: EB-4978 *County:* Wake
WBS No: 33906.1.1 *Document:* PCE
F.A. No: (anticipated) *Funding:* State Federal

Federal (USACE) Permit Required? Yes No *Permit Type:* na

Project Description: NCDOT intends to construct a new greenway along the shoulder of Edwards Mill Rd. from Trinity Rd. to the pedestrian culvert path east of Edwards Mill Rd. near its intersection with Reedy Creek Rd. The greenway is proposed as a 1.2-mile (over 1931-meter) long asphalt and concrete path 10 feet (roughly 3 meters) wide. Additionally curb and gutter will be added along Edwards Mill Rd. from RBC Center Drive to the Wade Ave. Interchange on-ramp; and sidewalk will be added to the north shoulder of Trinity Rd. from existing sidewalk to the intersection. All construction activities will occur within existing ROW. The project is being designed by NCDOT Bicycle and Pedestrian Division to be let by Division 5. After construction is complete, the greenway will be turned over by agreement to the ownership of the City of Raleigh. No Federal permits are anticipated.

SUMMARY OF FINDINGS

The North Carolina Department of Transportation (NCDOT) reviewed the subject project and determined:

Historic Architecture/Landscapes

- There are no National Register-listed or Study Listed properties within the project's area of potential effects.
- There are no properties less than fifty years old which are considered to meet Criteria Consideration G within the project's area of potential effects.
- There are no properties within the project's area of potential effects.
- There are properties over fifty years old within the area of potential effects, but they do not meet the criteria for listing on the National Register.
- All properties greater than 50 years of age located in the APE have been considered and all compliance for historic architecture with Section 106 of the National Historic Preservation Act and GS 121-12(a) has been completed for this project.

Archaeology

- There are no National Register-listed or Study Listed properties within the project's area of potential effects.
- No subsurface archaeological investigations are required for this project.
- Subsurface investigations did not reveal the presence of any archaeological resources.
- Subsurface investigations did not reveal the presence of any archaeological resources considered eligible for the National Register.
- All identified Archaeological sites located within the APE have been considered and all compliance for archaeological resources with Section 106 of the National Historic Preservation Act and GS 121-12(a) has been completed for this project.

10-05-0008

NO SURVEY REQUIRED FORM

PROJECT INFORMATION

Project No: EB-4978 County: Wake
 WBS No: 33906.1.1 Document:
 F.A. No: Funding: State Federal

Federal (USACE) Permit Required? Yes No Permit Type: Not given

Project Description: Edwards Mill Road Greenway (1.2 miles) to be constructed mainly along Edwards Mills Road's east side shoulder from Trinity Road junction to the existing pedestrian culvert under Edwards Mill Road near the Reedy Creek Road junction, West Raleigh.

SUMMARY OF CULTURAL RESOURCES REVIEW

Brief description of review activities, results of review, and conclusions:

Review of HPO quad maps, historic designations roster, and indexes was undertaken on May 18, 2010. The Mount Olivet Cemetery file (WA 2505) was also consulted at HPO's Survey Room, along with several maps of urban Raleigh. Based on this review, there are no existing NR, SL, LD, DE, or SS properties in the Area of Potential Effects (APE).

Brief Explanation of why the available information provides a reliable basis for reasonably predicting that there are no unidentified historic properties in the APE:

The Wake County Survey was undertaken between 1990-1993 and is considered valid for the purposes of determining the likelihood of historic resources being present. Furthermore, there has been one comprehensive survey of West Raleigh undertaken within the last 10 years (2003-2004), and no resources from this survey are in the APE.

SUPPORT DOCUMENTATION

See attached: Map(s), Previous Survey Info, Photos, Correspondence, Photocopy of notes from county survey.

FINDING BY NCDOT CULTURAL RESOURCES PROFESSIONAL

NO SURVEY REQUIRED

Penne Sandbeck

5-26-2010

NCDOT Cultural Resources Specialist

Date