



STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE  
GOVERNOR

EUGENE A. CONIL, JR.  
SECRETARY

October 13, 2009

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

ATTN: Mr. Eric Alsmeyer  
NCDOT Coordinator

Dear Sir,

Subject: **Application for Section 404 Nationwide Permit 33, and Section 401 Water Quality Certification** for the replacement of Bridge No. 43 over the South Flat River on SR 1112(Charlie Long Road), State Project No. 8.2380801, Federal Aid Project No. BRZ-1112(7), Division 5, T.I.P No. B-4600.

Debit \$240.00 from WBS No. 33792.1.1

The North Carolina Department of Transportation (NCDOT) proposes to replace bridge No. 43 over the South Flat River on SR 1112 (Charlie Long Road).

Please see the enclosed copies of the Pre-Construction Notification (PCN), Stormwater Management Plan, permit drawings, design plans, and the compensatory mitigation for the above-referenced project. The Programmatic Categorical Exclusion (PCE) for this was completed project in June 2008. Additional copies are available upon request.

This project calls for a letting date of March 16, 2010 and a review date of February 2, 2010. However, the let date may advance as additional funds become available.

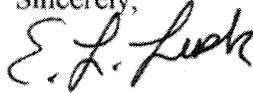
MAILING ADDRESS:  
NC DEPARTMENT OF TRANSPORTATION  
PROJECT DEVELOPMENT AND ENVIRONMENTAL ANALYSIS  
NATURAL ENVIRONMENT UNIT  
1598 MAIL SERVICE CENTER

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

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 Sara Easterly at (919) 431-1605.

Sincerely,



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

W/attachment

Mr. Brian Wrenn, NCDWQ (5 Copies)  
Mr. J. Wally Bowman, P.E., 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. Victor Barbour, P.E., Project Services Unit  
Mr. Jay Bennett, P.E., Roadway Design  
Mr. Majed Alghandour, P. E., Programming and TIP  
Mr. Art McMillan, P.E., Highway Design  
Mr. Scott McLendon, USACE, Wilmington  
Mr. Gary Jordan, USFWS  
Mr. Travis Wilson, NCWRC  
Mr. Ma'ad Hassan, P.E., PDEA Project Planning Engineer  
Ms. LeiLani Paugh, NEU  
Mr. Randy Griffin, NEU



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 checked="" type="checkbox"/> Section 404 Permit	<input type="checkbox"/> Section 10 Permit
1b. Specify Nationwide Permit (NWP) number: 33 or General Permit (GP) number:		
1c. Has the NWP or GP number been verified by the Corps?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
1d. Type(s) of approval sought from the DWQ (check all that apply):		
<input checked="" type="checkbox"/> 401 Water Quality Certification – Regular <span style="margin-left: 100px;"><input type="checkbox"/> Non-404 Jurisdictional General Permit</span> <input type="checkbox"/> 401 Water Quality Certification – Express <span style="margin-left: 100px;"><input checked="" type="checkbox"/> Riparian Buffer Authorization</span>		
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 checked="" type="checkbox"/> No	For the record only for Corps Permit: <input type="checkbox"/> Yes <input checked="" 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 checked="" type="checkbox"/> Yes	<input 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:	Replacment of Bridge 43 over South Flat Creek on SR 1112 (Charlie Long Road)
2b. County:	Person
2c. Nearest municipality / town:	Brushy Fork
2d. Subdivision name:	<i>not applicable</i>
2e. NCDOT only, T.I.P. or state project no:	B-4600

#### 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:	1598 Mail Service Center
3e. City, state, zip:	Raleigh, NC 27699-1598
3f. Telephone no.:	(919) 431-1605
3g. Fax no.:	(919) 431-2002
3h. Email address:	seeasterly@ncdot.gov

<b>4. Applicant Information (if different from owner)</b>	
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:	
<b>5. Agent/Consultant Information (if applicable)</b>	
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>B. Project Information and Prior Project History</b>	
<b>1. Property Identification</b>	
1a. Property identification no. (tax PIN or parcel ID):	<i>not applicable</i>
1b. Site coordinates (in decimal degrees):	Latitude: 36.2944 (DD.DDDDDD) Longitude: - 79.0645 (-DD.DDDDDD)
1c. Property size:	5 acres
<b>2. Surface Waters</b>	
2a. Name of nearest body of water (stream, river, etc.) to proposed project:	South Flat River
2b. Water Quality Classification of nearest receiving water:	WSIII, NSW
2c. River basin:	Neuse
<b>3. Project Description</b>	
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: Low density single family, cultivated land, and forest land	
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: 132	
3d. Explain the purpose of the proposed project: To replace a structurally deficient and functionally obsolete bridge.	
3e. Describe the overall project in detail, including the type of equipment to be used: The project involves replacing bridge No. 43 with a 105-foot, 3-span bridge on the existing alignment with an off-site detour. Standard road building equipment, such as trucks, dozers, and cranes will be used.	
<b>4. Jurisdictional Determinations</b>	
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:	<input checked="" type="checkbox"/> Yes <input 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 checked="" type="checkbox"/> Final
4c. If yes, who delineated the jurisdictional areas? Name (if known):	Agency/Consultant Company: Louis Berger Other:
4d. If yes, list the dates of the Corps jurisdictional determinations or State determinations and attach documentation. August 21, 2008	
<b>5. Project History</b>	
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.	
<b>6. Future Project Plans</b>	
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 checked="" 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)	
Site 1 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site 2 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site 3 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site 4 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site 5 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site 6 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
<b>2g. Total wetland impacts</b>					0 Permanent 0 Temporary	
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)
Site 1 <input type="checkbox"/> P <input checked="" type="checkbox"/> T	Temporary Causeway	South Flat River	<input checked="" type="checkbox"/> PER <input type="checkbox"/> INT	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	10	70
Site 2 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site 3 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site 4 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site 5 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site 6 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
<b>3h. Total stream and tributary impacts</b>						0 Perm 70 Temp
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				
<b>4f. Total open water impacts</b>				0 Permanent 0 Temporary

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								
<b>5f. Total</b>								

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.

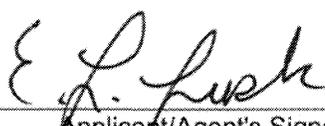
6a. Project is in which protected basin?			<input checked="" type="checkbox"/> Neuse <input type="checkbox"/> Catawba	<input type="checkbox"/> Tar-Pamlico <input type="checkbox"/> Randleman	<input type="checkbox"/> Other:
6b. Buffer impact number – Permanent (P) or Temporary (T)	6c. Reason for impact	6d. Stream name	6e. Buffer mitigation required? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6f. Zone 1 impact (square feet)	6g. Zone 2 impact (square feet)
B1 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Bridge Impacts	South Flat River	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5,567	2,740
B2 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Road Crossing	South Flat River	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	1,126	2,490
B3 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No		
<b>6h. Total buffer impacts</b>				6,693	5,230
6i. Comments:					

<b>D. Impact Justification and Mitigation</b>		
<b>1. Avoidance and Minimization</b>		
1a. Specifically describe measures taken to avoid or minimize the proposed impacts in designing project. The proposed bridge will span the river; an off site detour will be used		
1b. Specifically describe measures taken to avoid or minimize the proposed impacts through construction techniques. 2:1 slopes in jurisdictional areas, and Best Management Practices for Surface Waters.		
<b>2. Compensatory Mitigation for Impacts to Waters of the U.S. or Waters of the State</b>		
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	
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	
<b>3. Complete if Using a Mitigation Bank</b>		
3a. Name of Mitigation Bank: not applicable		
3b. Credits Purchased (attach receipt and letter)	Type	Quantity
3c. Comments:		
<b>4. Complete if Making a Payment to In-lieu Fee Program</b>		
4a. Approval letter from in-lieu fee program is attached.	<input type="checkbox"/> Yes	
4b. Stream mitigation requested:	0 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):	0 square feet	
4e. Riparian wetland mitigation requested:	0 acres	
4f. Non-riparian wetland mitigation requested:	0 acres	
4g. Coastal (tidal) wetland mitigation requested:	0 acres	
4h. Comments:		
<b>5. Complete if Using a Permittee Responsible Mitigation Plan</b>		
5a. If using a permittee responsible mitigation plan, provide a description of the proposed mitigation plan.		

<b>6. Buffer Mitigation (State Regulated Riparian Buffer Rules) – required by DWQ</b>				
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	
<b>6f. Total buffer mitigation required:</b>				
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:				

<b>E. Stormwater Management and Diffuse Flow Plan (required by DWQ)</b>	
<b>1. Diffuse Flow Plan</b>	
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: if yes, see attached permit drawings.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>2. Stormwater Management Plan</b>	
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 attached permit drawings.	
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
<b>3. Certified Local Government Stormwater Review</b>	
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
<b>4. DWQ Stormwater Program Review</b>	
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
<b>5. DWQ 401 Unit Stormwater Review</b>	
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

<b>F. Supplementary Information</b>	
<b>1. Environmental Documentation (DWQ Requirement)</b>	
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
<b>2. Violations (DWQ Requirement)</b>	
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):	
<b>3. Cumulative Impacts (DWQ Requirement)</b>	
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 bridge replacement, this project will neither influence nearby land uses nor stimulate growth. Therefore, a detailed indirect or cumulative effects study will not be necessary.	
<b>4. Sewage Disposal (DWQ Requirement)</b>	
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	

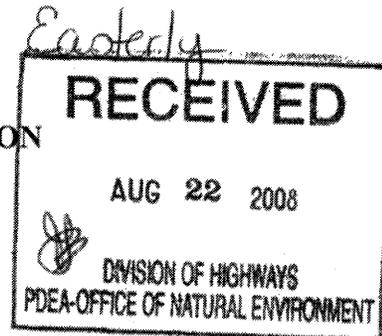
<b>5. Endangered Species and Designated Critical Habitat (Corps Requirement)</b>		
5a. Will this project occur in or near an area with federally protected species or habitat?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
5b. Have you checked with the USFWS concerning Endangered Species Act impacts?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
5c. If yes, indicate the USFWS Field Office you have contacted.	<input 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? NHP, USFWS website, and the NCDOT mussel survey conducted in 2007. No dwarf wedgemussel species were found. The Biological Conclusion remains "No Effect"		
<b>6. Essential Fish Habitat (Corps Requirement)</b>		
6a. Will this project occur in or near an area designated as essential fish habitat?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
6b. What data sources did you use to determine whether your site would impact Essential Fish Habitat? NMFS County Index		
<b>7. Historic or Prehistoric Cultural Resources (Corps Requirement)</b>		
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 checked="" type="checkbox"/> No
7b. What data sources did you use to determine whether your site would impact historic or archeological resources? NEPA Documentation		
<b>8. Flood Zone Designation (Corps Requirement)</b>		
8a. Will this project occur in a FEMA-designated 100-year floodplain?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
8b. If yes, explain how project meets FEMA requirements: NCDOT Hydraulics coordination with FEMA		
8c. What source(s) did you use to make the floodplain determination? FEMA Maps		
<u>Dr. Gregory J. Thorpe, Ph D</u> 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>	<u>10.13.09</u> Date

U.S. ARMY CORPS OF ENGINEERS  
WILMINGTON DISTRICT

Action ID: 2007-03756

County: Person

U.S.G.S. Quad: Hurdle Mills



**NOTIFICATION OF JURISDICTIONAL DETERMINATION**

Property Owner/Agent: NCDOT; Division of Highways  
Address: ATTN: Gregory J. Thorpe, Ph.D  
1598 Mail Service Center  
Raleigh, North Carolina 27699-1598  
Telephone No.: (919) 715-5502 (Bill Goodwin)

Property description: Study area for TIP #B-4600; On SR 1112 (Charlie Long Rd), BR 43 over the South Flat River, northwest of Hurdle Mills, NC.

Size (acres)	<u>N/A</u>	Nearest Town	<u>Hurdle Mills</u>
Nearest Waterway	<u>South Flat River and UT</u>	River Basin	<u>Neuse</u>
USGS HUC	<u>03020201</u>	Coordinates	N <u>36.2947</u> W <u>-79.0649</u>

**Indicate Which of the Following Apply:**

**A. Preliminary Determination**

Based on preliminary information, there may be wetlands on the above described property. We strongly suggest you have this property inspected to determine the extent of Department of the Army (DA) jurisdiction. To be considered final, a jurisdictional determination must be verified by the Corps. This preliminary determination is not an appealable action under the Regulatory Program Administrative Appeal Process ( Reference 33 CFR Part 331).

**B. Approved Determination**

There are Navigable Waters of the United States within the above described project area subject to the permit requirements of Section 10 of the Rivers and Harbors Act and Section 404 of the Clean Water Act. Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.

There are waters of the U.S. on the above described project area subject to the permit requirements of Section 404 of the Clean Water Act (CWA)(33 USC § 1344). Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.

We strongly suggest you have the waters of the U.S. including wetlands on your project area delineated. Due to the size of your property and/or our present workload, the Corps may not be able to accomplish this wetland delineation in a timely manner. For a more timely delineation, you may wish to obtain a consultant. To be considered final, any delineation must be verified by the Corps.

The waters of the U.S. on your project area have been delineated and the delineation has been verified by the Corps. We strongly suggest you have this delineation surveyed. Upon completion, this survey should be reviewed and verified by the Corps. Once verified, this survey will provide an accurate depiction of all areas subject to CWA jurisdiction on your property which, provided there is no change in the law or our published regulations, may be relied upon for a period not to exceed five years.

The waters of the U.S. including wetlands have been delineated and surveyed and are accurately depicted on the plat signed by the Corps Regulatory Official identified below on \_\_\_\_\_. Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.

There are no waters of the U.S., to include wetlands, present on the above described property which are subject to the permit requirements of Section 404 of the Clean Water Act (33 USC 1344). Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.

The property is located in one of the 20 Coastal Counties subject to regulation under the Coastal Area Management Act (CAMA). You should contact the Division of Coastal Management in Washington, NC, at (252) 946-6481 to determine their requirements.

Placement of dredged or fill material within waters of the US and/or wetlands without a Department of the Army permit may constitute a violation of Section 301 of the Clean Water Act (33 USC § 1311). If you have any questions regarding this determination and/or the Corps regulatory program, please contact Eric Alsmeyer at 919-554-4884, Ext. 23.

**C. Basis For Determination**

The impact area contains two perennial stream channel (the South Flat River and a UT) with indicators of ordinary high water marks, RPWs, and tributaries to Falls Lake, a TNW.

**D. Remarks**

The drawing, Figure 2 (copy att.), submitted on 11/13/2007 by The Louis Berger Group, Inc., generally depicts the jurisdictional waters of the US within the subject study area.

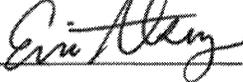
**Appeals Information (This information applies only to approved jurisdictional determinations.)**

Attached to this verification is an approved jurisdictional determination. If you are not in agreement with that approved jurisdictional determination, you can make an administrative appeal under 33 CFR 331. Enclosed you will find a Notification of Appeal Process (NAP) fact sheet and request for appeal (RFA) form. If you request to appeal this determination you must submit a completed RFA form to the following address:

District Engineer, Wilmington Regulatory Division  
Attn: Jean Manuele, Field Office Chief,  
Raleigh Regulatory Field Office  
3331 Heritage Park Drive, Suite 105  
Wake Forest, North Carolina 27587

In order for an RFA to be accepted by the Corps, the Corps must determine that it is complete, that it meets the criteria for appeal under 33 CFR part 331.5, and that it has been received by the District Office within 60 days of the date of the NAP. Should you decide to submit an RFA form, it must be received at the above address by 10/21/2008.

**\*\*It is not necessary to submit an RFA form to the District Office if you do not object to the determination in this correspondence.\*\***

Corps Regulatory Official  Date: **8/21/2008** Determination Expiration Date: **8/21/2013**

The Wilmington District is committed to providing the highest level of support to the public. To help us ensure we continue to do so, please complete the Customer Satisfaction Survey located at our website at <http://regulatory.usacesurvey.com/> to complete the survey online.

Copy furnished (w/ att.):  
The Louis Berger Group, Inc.  
Attn: Ray Bode, PWS  
101 Wade Ave., Suite 400  
Raleigh, NC 27605

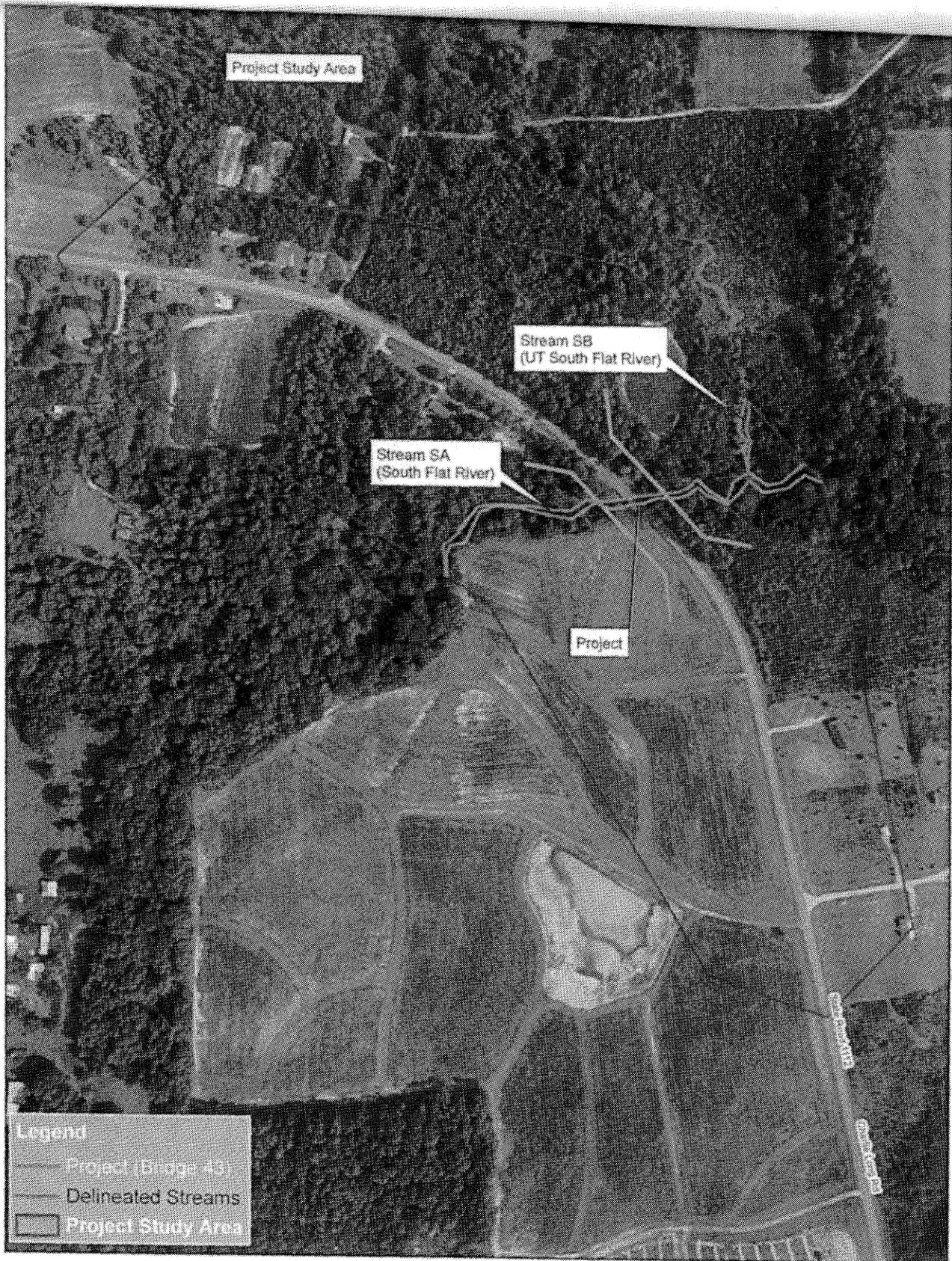
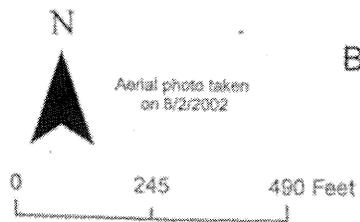


Figure 2. Jurisdictional Waters Map  
 B-4600 - Bridge Replacement for NCDOT  
 Bridge Number 43, Person County, NC



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4600	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
33792.1.1	BRZ-1112(7)	P.E.	
33792.2.1	BRZ-1112(7)	RW, UTIL.	
Permit Drawing Sheet <u>5</u> of <u>9</u>			

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**PERSON COUNTY**

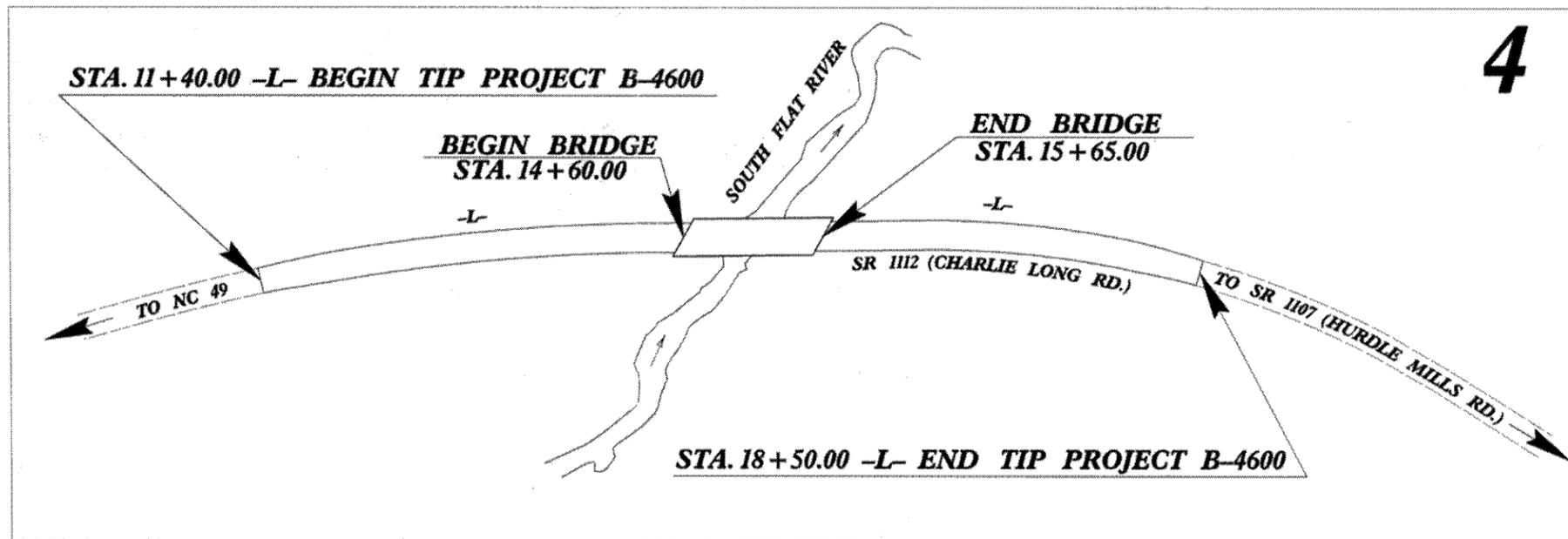
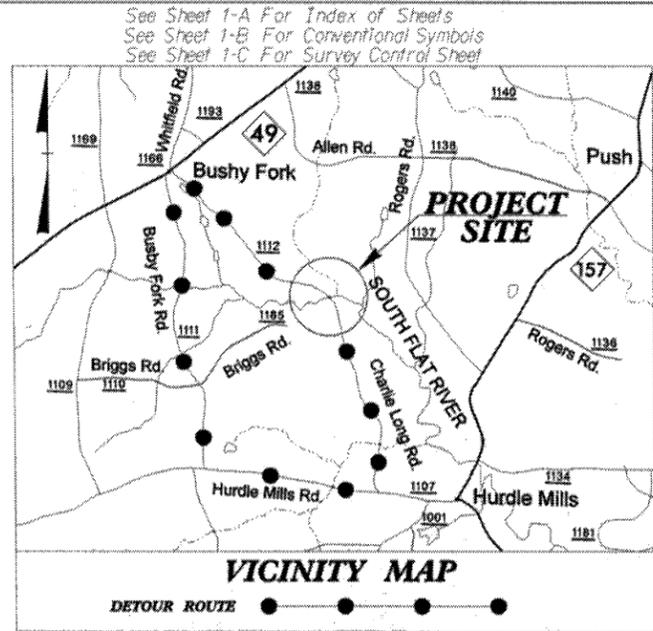
**LOCATION: BRIDGE NO. 43 OVER SOUTH FLAT RIVER  
ON SR 1112 (CHARLIE LONG ROAD)**

**TYPE OF WORK: GRADING, DRAINAGE, PAVING, GUARDRAIL,  
AND STRUCTURE**

ENGLISH



WETLAND/STREAM  
IMPACTS

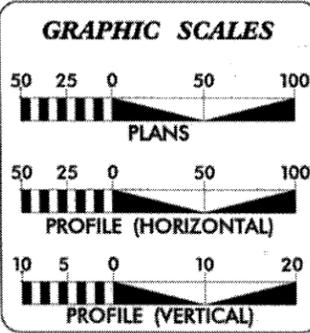


NOTE: THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.

NOTE: CLEARING ON THIS PROJECT SHALL BE PERFORMED  
TO THE LIMITS ESTABLISHED BY METHOD III.

PRELIMINARY PLANS  
DO NOT USE FOR CONSTRUCTION

**CONTRACT:**



**DESIGN DATA**

ADT 2010 =	819
ADT 2030 =	1300
DHV =	13 %
D =	60 %
T =	3 % *
V =	60 MPH
* TTST 1%	DUAL 2%
FUNC CLASS = RURAL LOCAL	

**PROJECT LENGTH**

LENGTH OF ROADWAY TIP PROJECT B-4600	= 0.114 MILES
LENGTH OF STRUCTURE TIP PROJECT B-4600	= 0.020 MILES
TOTAL LENGTH OF TIP PROJECT B-4600	= 0.134 MILES

Prepared in the Office of:  
**DIVISION OF HIGHWAYS**  
1000 Birch Ridge Dr., Raleigh NC, 27610

2006 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: MARCH 20, 2009	BRENDA MOORE, P.E. PROJECT ENGINEER
LETTING DATE: MARCH 16, 2010	JOYCE DREW PROJECT DESIGN ENGINEER

**HYDRAULICS ENGINEER**

SIGNATURE: \_\_\_\_\_ P.E.

**ROADWAY DESIGN ENGINEER**

SIGNATURE: \_\_\_\_\_ P.E.

**DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA**

STATE HIGHWAY DESIGN ENGINEER

09/08/99

SYSTEM TIME  
DESIGNER  
USER NAME

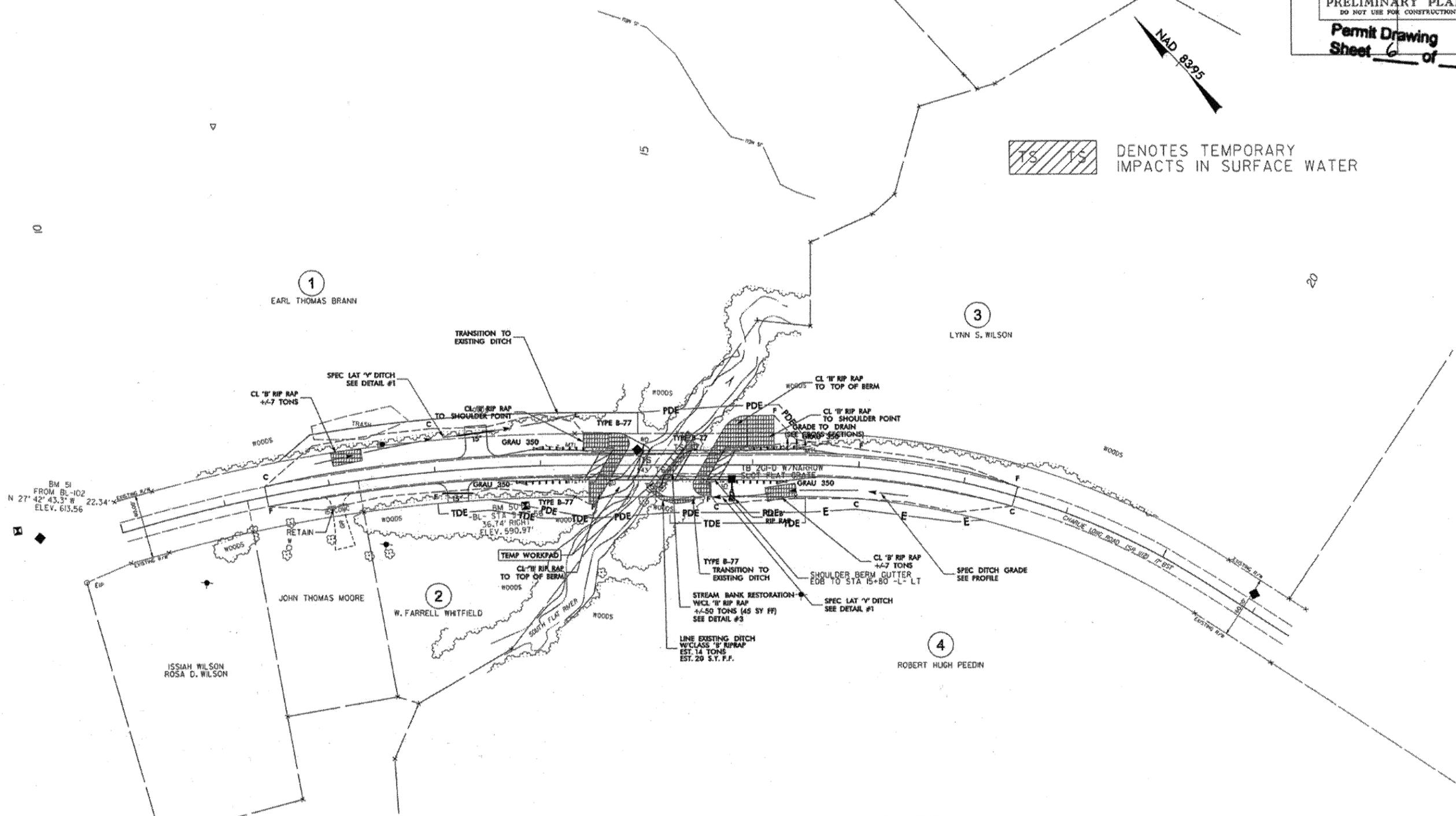
PROJECT REFERENCE NO. B-4600	SHEET NO. 4
RWY SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	
Permit Drawing Sheet <u>6</u> of <u>9</u>	

ENGLISH

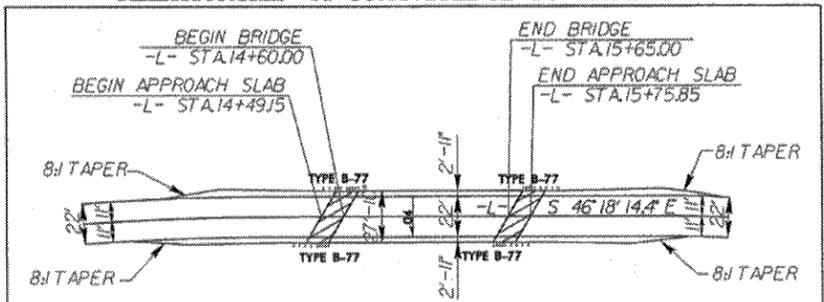
NAD 83/95

 DENOTES TEMPORARY IMPACTS IN SURFACE WATER

REVISIONS  
 8/17/99  
 1. RECONNECTING DRIVEWAYS AND ADDING DRIVEWAY PILES FOR PARCELS LAND 2.  
 2. UPDATING PROPERTY OWNER NAME, PLAT AND DEED BOOK INFORMATION FOR PARCELS 1, 11, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.  
 3. ADDING PDE - 1 - STA. 14+90.50 TO STA. 15+80.50, L.I. AND - 1 - STA. 14+50.50 TO STA. 15+21.98, 45 FT. FOR PARCELS 1, 11, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.



RELATIONSHIP OF PROP. BRIDGE TO PAVEMENT



PAVED SHOULDER







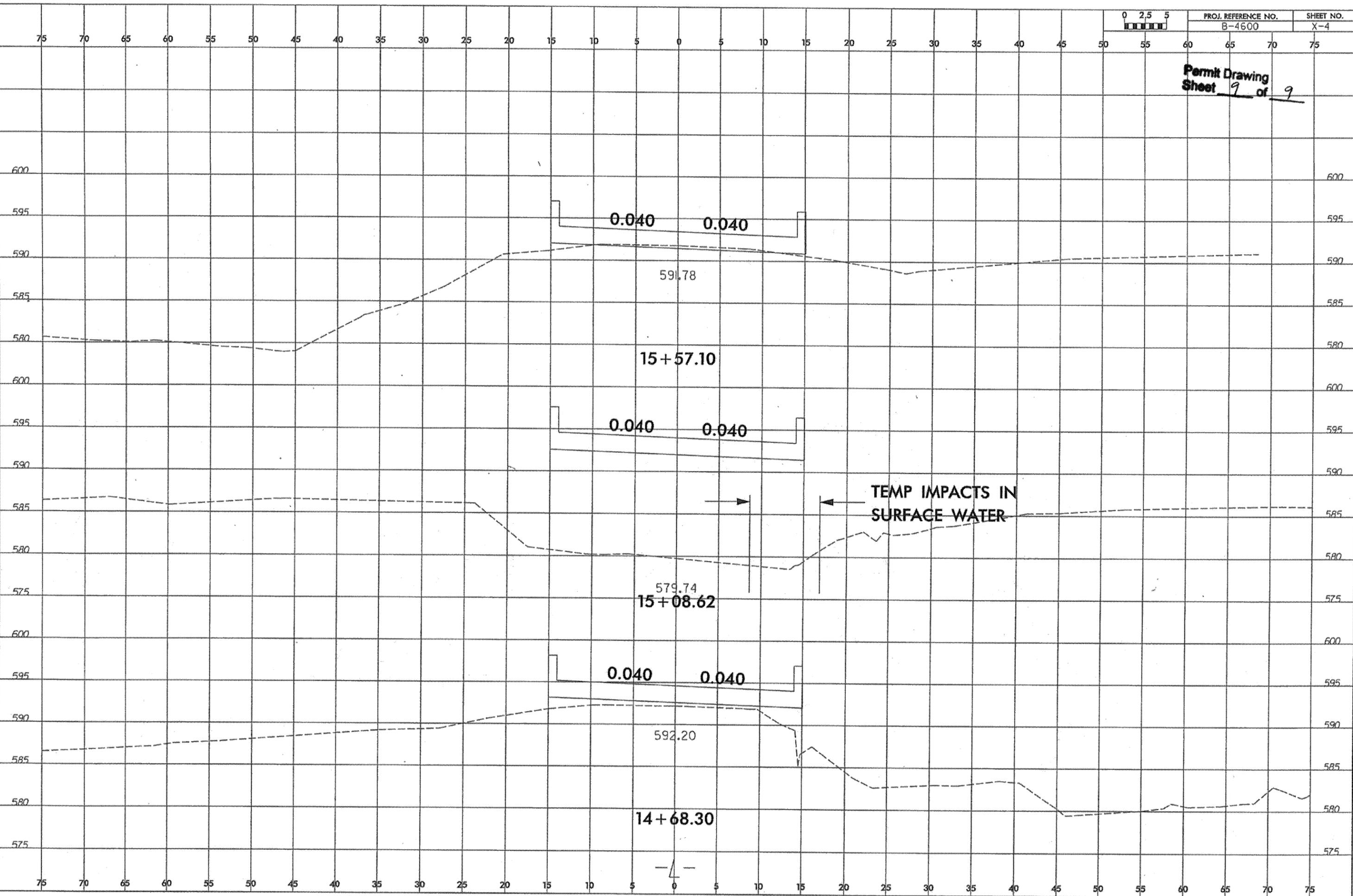
8/23/99

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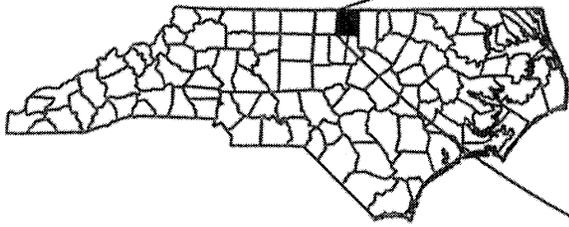
PROJ. REFERENCE NO.  
B-4600

SHEET NO.  
X-4

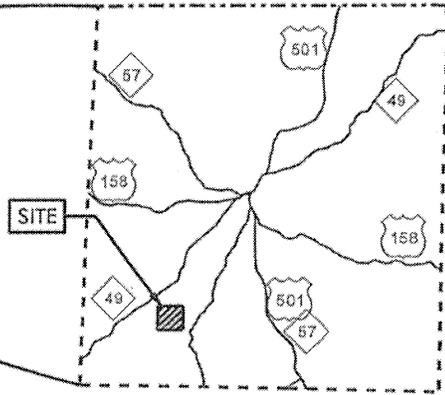
Permit Drawing  
Sheet 9 of 9



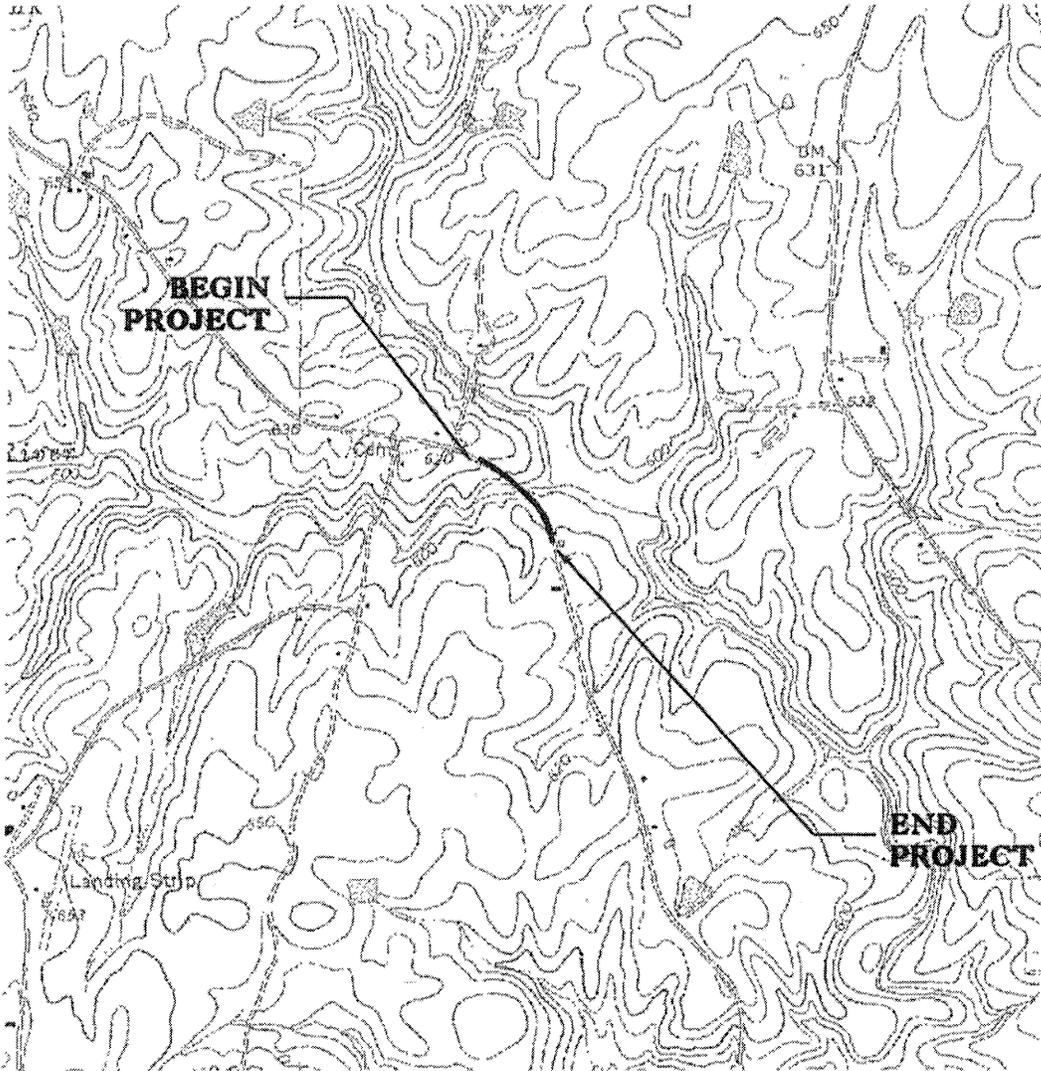
\*\*\*\*\*  
SYSTEMS  
\*\*\*\*\*



SEE INSET  
BELOW



PERSON COUNTY



**BUFFER  
IMPACTS**

**N.C. DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
PERSON COUNTY**

**PROJECT: 33792.1.1 (B-4600)  
BRIDGE NO. 43 OVER  
SOUTH FLAT RIVER  
ON SR 1112 (LONG ROAD)**

SHEET 1 OF 6

7-31-09

# PROPERTY OWNERS

## NAMES AND ADDRESSES

PARCEL NO.	NAMES	ADDRESSES
1	EARL THOMAS BRANN	433 FRANK WHITFIELD RD HURDLE MILLS, NC 27541
2	W. FARRELL WHITFIELD	1434 CHARLIE LONG RD HURDLE MILLS, NC 27541
3	LYNN S. WILSON	244 MYRTLE J DRIVE HURDLE MILLS, NC 27541
4	ROBERT HUGH PEEDIN	P.O. BOX 74 HURDLE MILLS, NC 27541

BUFFER IMPACTS

**NCDOT**

DIVISION OF HIGHWAYS

PERSON COUNTY

PROJECT: 33792.1.1 (B-4600)  
BRIDGE NO. 43 OVER  
SOUTH FLAT RIVER  
ON SR 1112 (LONG ROAD)

SHEET 2 OF 6

7-31-09



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4600	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
33792.1.1	BRZ-1112(7)	P.E.	
33792.2.1	BRZ-1112(7)	RW, UTIL.	

Buffer Drawing  
Sheet 4 of 6



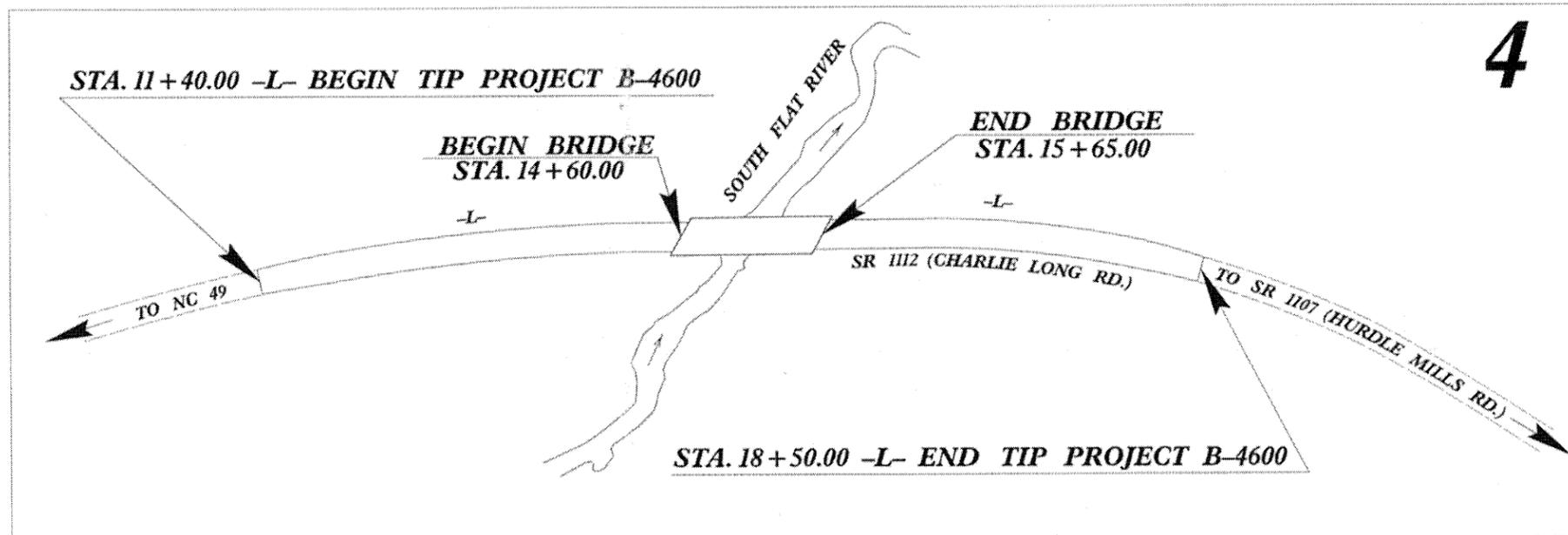
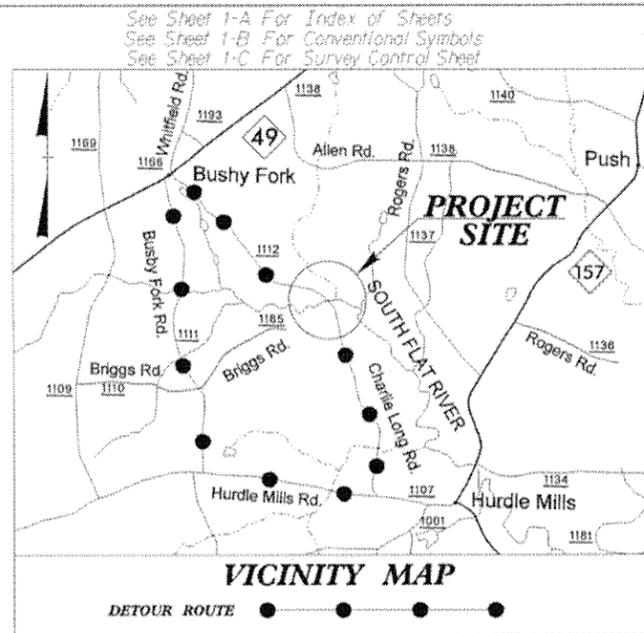
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**PERSON COUNTY**

LOCATION: BRIDGE NO. 43 OVER SOUTH FLAT RIVER  
ON SR 1112 (CHARLIE LONG ROAD)

TYPE OF WORK: GRADING, DRAINAGE, PAVING, GUARDRAIL,  
AND STRUCTURE

BUFFER  
IMPACTS



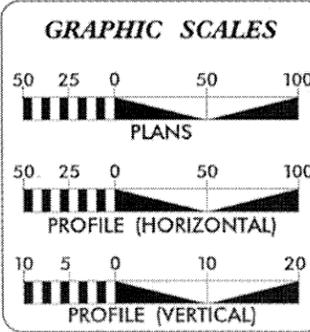
NOTE: THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.

NOTE: CLEARING ON THIS PROJECT SHALL BE PERFORMED  
TO THE LIMITS ESTABLISHED BY METHOD III.

PRELIMINARY PLANS  
DO NOT USE FOR CONSTRUCTION

TIP PROJECT: B-4600

CONTRACT:



DESIGN DATA

ADT 2010	=	819
ADT 2030	=	1300
DHV	=	13 %
D	=	60 %
T	=	3 % *
V	=	60 MPH
* TTST 1% DUAL 2%		
FUNC CLASS = RURAL LOCAL		

PROJECT LENGTH

LENGTH OF ROADWAY TIP PROJECT B-4600	=	0.114 MILES
LENGTH OF STRUCTURE TIP PROJECT B-4600	=	0.020 MILES
TOTAL LENGTH OF TIP PROJECT B-4600	=	0.134 MILES

Prepared in the Office of:  
**DIVISION OF HIGHWAYS**  
1000 Birch Ridge Dr., Raleigh NC, 27610

2006 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: MARCH 20, 2009

LETTING DATE: MARCH 16, 2010

BRENDA MOORE, P.E.  
PROJECT ENGINEER

JOYCE DREW  
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: \_\_\_\_\_ P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: \_\_\_\_\_ P.E.

DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

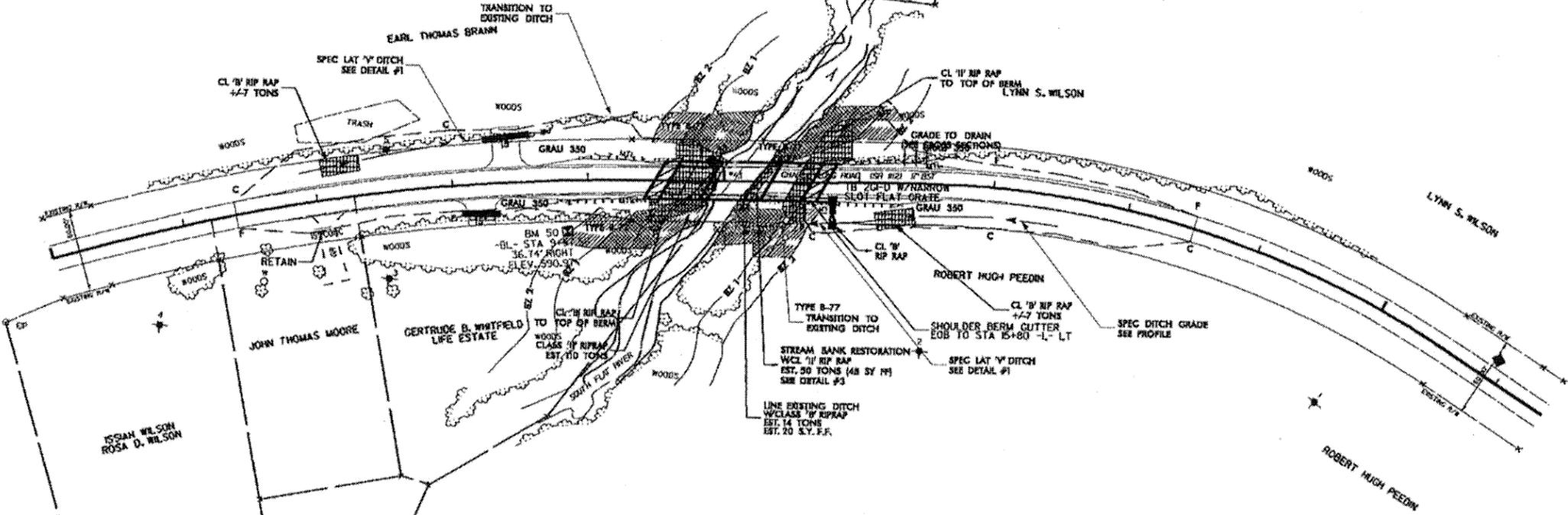
STATE HIGHWAY DESIGN ENGINEER

\*\*\*\*\* SYSTEMS \*\*\*\*\*  
 \*\*\*\*\* 09/09/09 \*\*\*\*\*  
 \*\*\*\*\* USERNAME \*\*\*\*\*

PROJECT REFERENCE NO. B-4600	SHEET NO. 4
NW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	
Buffer Drawing Sheet 5 of 6	

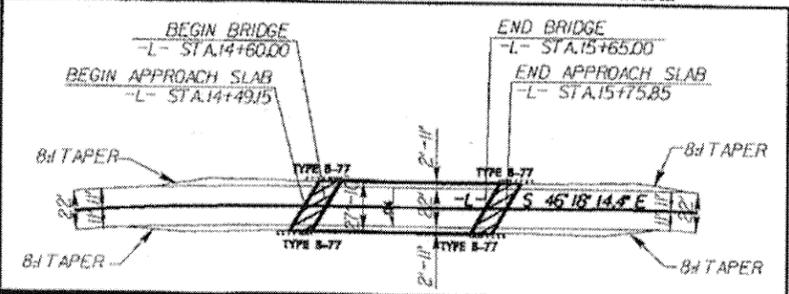


- ALLOWABLE IMPACTS ZONE 1
- ALLOWABLE IMPACTS ZONE 2



REVISIONS  
 R/W REV. 07/16/09 (BNJ) 1. RECONNECTING DRIVEWAYS AND ADDING DRIVEWAY PIPES FOR PARCELS 1 AND 2.  
 2. UPDATING PROPERTY OWNER NAME, PLAT AND DEED BOOK INFORMATION FOR PARCELS 1 THRU 3  
 3. ADDING PDE -L- STA. 14+92.50 LT. TO STA. 15+80.56 LT. AND -L- STA. 14+50.50 RT. TO STA. 15+29.46 RT. FOR PARCELS 1 THRU 4.  
 4. CHANGING PDE TO R/W -L- STA. 14+92.50 LT. TO -L- STA. 14+92.50 LT. TO -L- STA. 16+46. EX. R/W LT. FOR PARCELS 1 AND 3.

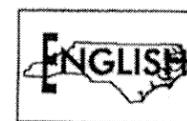
**RELATIONSHIP OF PROP. BRIDGE TO PAVEMENT**



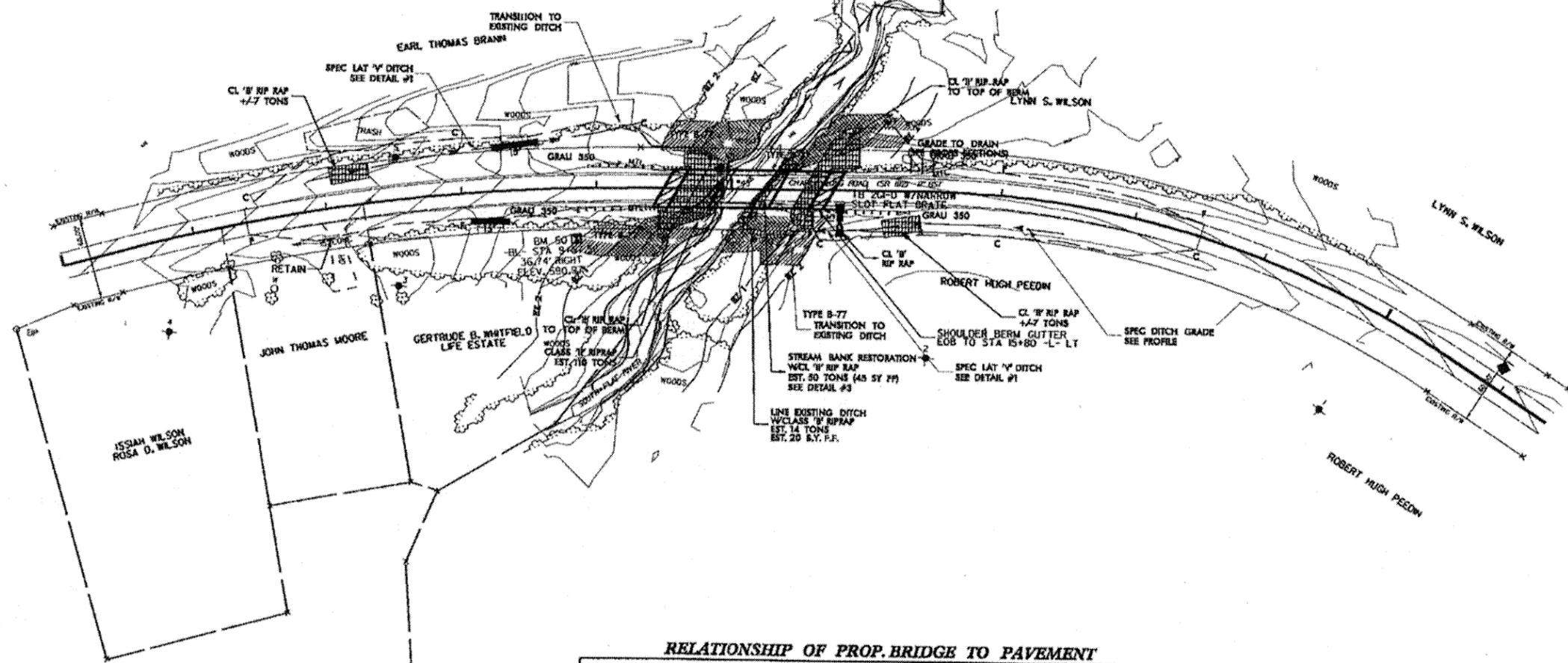
- PAVED SHOULDER
- FOR -L- PROFILE, SEE SHEET NO. 5
- BRIDGE APPROACH SLAB

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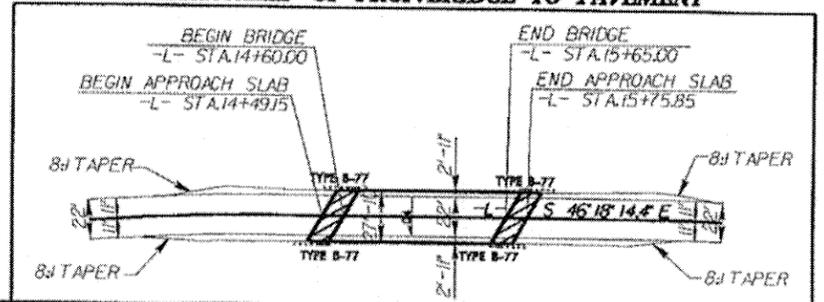
PROJECT REFERENCE NO. B-4600	SHEET NO. 4
RDW SHEET NO. ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	
Buffer Drawing Sheet 6 of 6	



- ALLOWABLE IMPACTS ZONE 1
- ALLOWABLE IMPACTS ZONE 2



**RELATIONSHIP OF PROP. BRIDGE TO PAVEMENT**



- PAVED SHOULDER
- FOR -L- PROFILE, SEE SHEET NO. 5
- BRIDGE APPROACH SLAB

REVISIONS  
 R/W REV. 07/16/09 (BMJ) 1. RECONNECTING DRIVEWAY PIPES FOR PARCELS 1 AND 2.  
 2. UPDATING PROPERTY OWNER NAME, PLAT AND DEED BOOK INFORMATION FOR PARCELS 1 THRU 3.  
 3. ADDING PDE -L- STA. 14+92.50 LT. TO STA. 15+80.56 LT. AND -L- STA. 14+50.50 RT. TO STA. 15+21.98, 45' RT. FOR PARCELS 1 THRU 4.  
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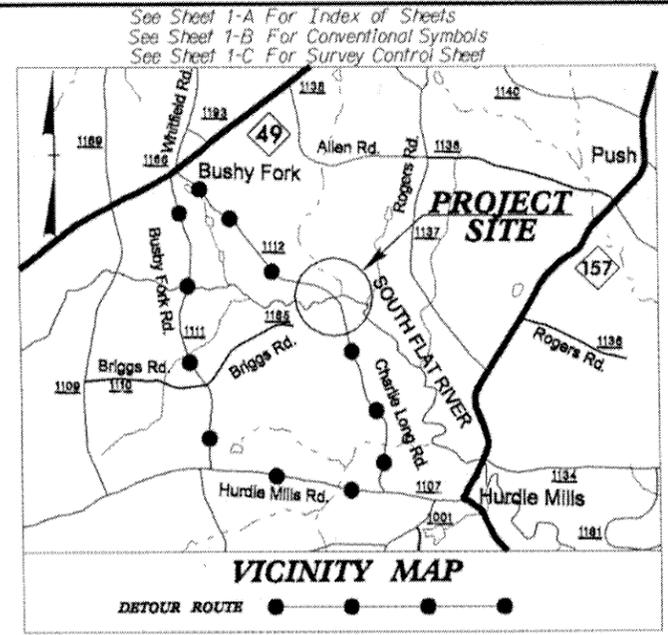
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STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4600	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
33792.1.1	BRZ-1112(7)	P.E.	
33792.2.1	BRZ-1112(7)	R/W, UTIL.	

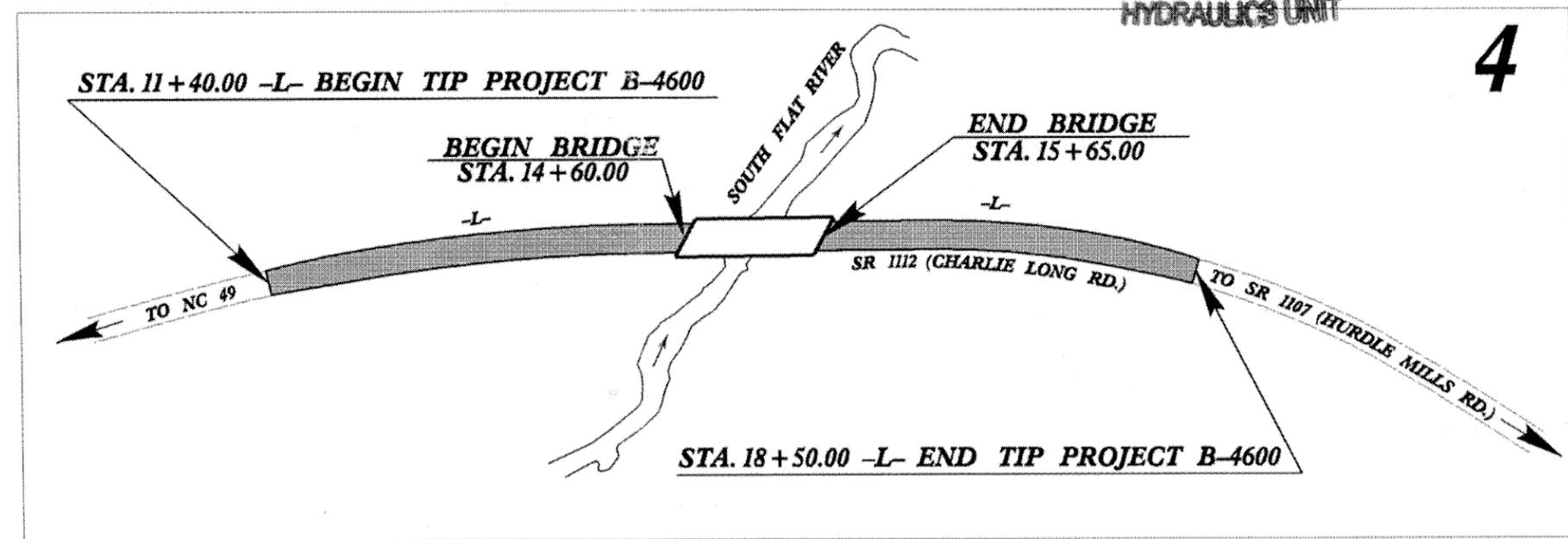
STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS  
**PERSON COUNTY**

**LOCATION: BRIDGE NO. 43 OVER SOUTH FLAT RIVER  
 ON SR 1112 (CHARLIE LONG ROAD)**

**TYPE OF WORK: GRADING, DRAINAGE, PAVING, GUARDRAIL,  
 AND STRUCTURE**



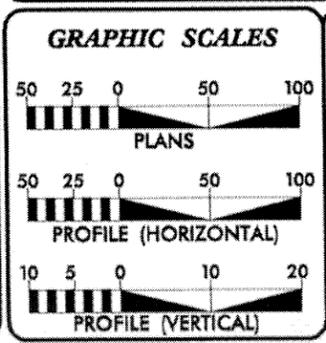
**RECEIVED**  
 JUL 29 2009  
 DIVISION OF HIGHWAYS  
 HYDRAULICS UNIT



NOTE: THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.

NOTE: CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.

PRELIMINARY PLANS  
 DO NOT USE FOR CONSTRUCTION



**DESIGN DATA**

ADT 2010	=	819
ADT 2030	=	1300
DHV	=	13 %
D	=	60 %
T	=	3 % *
V	=	60 MPH
* TTST 1% DUAL 2%		
FUNC CLASS = RURAL LOCAL		

**PROJECT LENGTH**

LENGTH OF ROADWAY TIP PROJECT B-4600	=	0.114 MILES
LENGTH OF STRUCTURE TIP PROJECT B-4600	=	0.020 MILES
TOTAL LENGTH OF TIP PROJECT B-4600	=	0.134 MILES

Prepared in the Office of:  
**DIVISION OF HIGHWAYS**  
 1000 Birch Ridge Dr., Raleigh NC, 27610

2006 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: MARCH 20, 2009

LETTING DATE: MARCH 16, 2010

BRENDA MOORE, P.E.  
 PROJECT ENGINEER

JOYCE DREW  
 PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: \_\_\_\_\_ P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: \_\_\_\_\_ P.E.

DIVISION OF HIGHWAYS  
 STATE OF NORTH CAROLINA

STATE HIGHWAY DESIGN ENGINEER

CONTRACT: TIP PROJECT: B-4600

CONTRACT: TIP PROJECT: B-4600

29-Jul-2009 12:07

C:\roadwork\proj\4600\_rdy.tsh.dgn

Note: Not to Scale

\*S.U.E. = Subsurface Utility Engineering

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

# CONVENTIONAL PLAN SHEET SYMBOLS

### BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	○
Property Corner	→
Property Monument	□
Parcel/Sequence Number	(23)
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	□
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	-v.v-
Proposed Wetland Boundary	-v.v-
Existing Endangered Animal Boundary	-E.A.B-
Existing Endangered Plant Boundary	-E.P.B-

### BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	○
Sign	⊙
Well	⊙
Small Mine	⊗
Foundation	▭
Area Outline	▭
Cemetery	↑
Building	▭
School	▭
Church	⊕
Dam	▭

### HYDROLOGY:

Stream or Body of Water	-----
Hydro, Pool or Reservoir	▭
Jurisdictional Stream	-JS-
Buffer Zone 1	-BZ 1-
Buffer Zone 2	-BZ 2-
Flow Arrow	→
Disappearing Stream	→
Spring	○
Wetland	⊕
Proposed Lateral, Tail, Head Ditch	→
False Sump	▭

### RAILROADS:

Standard Gauge	-----
RR Signal Milepost	⊙
Switch	⊕
RR Abandoned	-----
RR Dismantled	-----

### RIGHT OF WAY:

Baseline Control Point	◆
Existing Right of Way Marker	△
Existing Right of Way Line	-----
Proposed Right of Way Line	-----
Proposed Right of Way Line with Iron Pin and Cap Marker	-----
Proposed Right of Way Line with Concrete or Granite Marker	-----
Existing Control of Access	⊕
Proposed Control of Access	⊕
Existing Easement Line	-E-
Proposed Temporary Construction Easement	-E-
Proposed Temporary Drainage Easement	-TDE-
Proposed Permanent Drainage Easement	-PDE-
Proposed Permanent Utility Easement	-PUE-
Proposed Temporary Utility Easement	-TUE-
Proposed Permanent Easement with Iron Pin and Cap Marker	◆

### ROADS AND RELATED FEATURES:

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	-C-
Proposed Slope Stakes Fill	-F-
Proposed Wheel Chair Ramp	⊕
Existing Metal Guardrail	-----
Proposed Guardrail	-----
Existing Cable Guiderail	-----
Proposed Cable Guiderail	-----
Equality Symbol	⊕
Pavement Removal	⊕

### VEGETATION:

Single Tree	⊕
Single Shrub	⊕
Hedge	-----
Woods Line	-----
Orchard	⊕
Vineyard	▭

### EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	▭
Bridge Wing Wall, Head Wall and End Wall	▭
MINOR:	
Head and End Wall	▭
Pipe Culvert	-----
Footbridge	-----
Drainage Box: Catch Basin, DI or JB	□
Paved Ditch Gutter	-----
Storm Sewer Manhole	⊕
Storm Sewer	-----

### UTILITIES:

POWER:	
Existing Power Pole	⊕
Proposed Power Pole	⊕
Existing Joint Use Pole	⊕
Proposed Joint Use Pole	⊕
Power Manhole	⊕
Power Line Tower	⊕
Power Transformer	⊕
U/G Power Cable Hand Hole	⊕
H-Frame Pole	⊕
Recorded U/G Power Line	-----
Designated U/G Power Line (S.U.E.*)	-----

### TELEPHONE:

Existing Telephone Pole	⊕
Proposed Telephone Pole	⊕
Telephone Manhole	⊕
Telephone Booth	⊕
Telephone Pedestal	⊕
Telephone Cell Tower	⊕
U/G Telephone Cable Hand Hole	⊕
Recorded U/G Telephone Cable	-----
Designated U/G Telephone Cable (S.U.E.*)	-----
Recorded U/G Telephone Conduit	-----
Designated U/G Telephone Conduit (S.U.E.*)	-----
Recorded U/G Fiber Optics Cable	-----
Designated U/G Fiber Optics Cable (S.U.E.*)	-----

### WATER:

Water Manhole	⊕
Water Meter	⊕
Water Valve	⊕
Water Hydrant	⊕
Recorded U/G Water Line	-----
Designated U/G Water Line (S.U.E.*)	-----
Above Ground Water Line	-----

### TV:

TV Satellite Dish	⊕
TV Pedestal	⊕
TV Tower	⊕
U/G TV Cable Hand Hole	⊕
Recorded U/G TV Cable	-----
Designated U/G TV Cable (S.U.E.*)	-----
Recorded U/G Fiber Optic Cable	-----
Designated U/G Fiber Optic Cable (S.U.E.*)	-----

### GAS:

Gas Valve	⊕
Gas Meter	⊕
Recorded U/G Gas Line	-----
Designated U/G Gas Line (S.U.E.*)	-----
Above Ground Gas Line	-----

### SANITARY SEWER:

Sanitary Sewer Manhole	⊕
Sanitary Sewer Cleanout	⊕
U/G Sanitary Sewer Line	-----
Above Ground Sanitary Sewer	-----
Recorded SS Forced Main Line	-----
Designated SS Forced Main Line (S.U.E.*)	-----

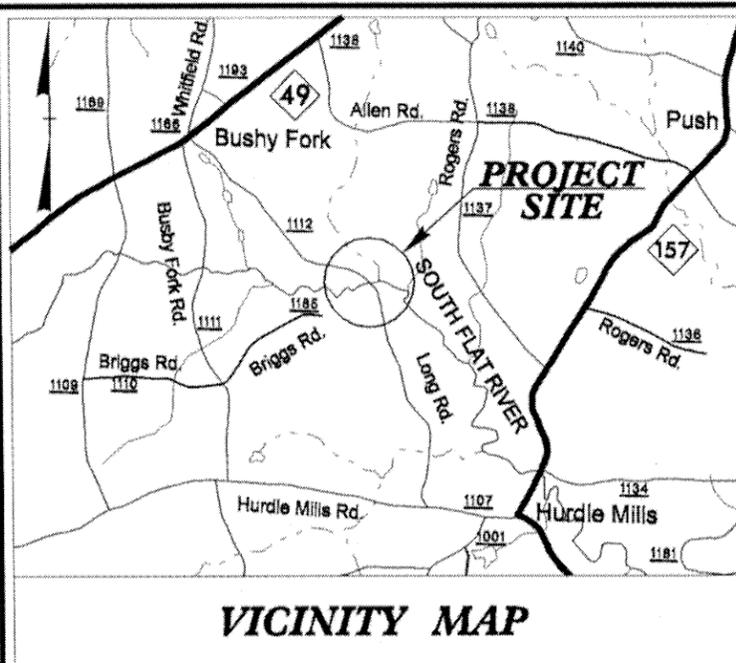
### MISCELLANEOUS:

Utility Pole	⊕
Utility Pole with Base	⊕
Utility Located Object	⊕
Utility Traffic Signal Box	⊕
Utility Unknown U/G Line	-----
U/G Tank; Water, Gas, Oil	▭
A/G Tank; Water, Gas, Oil	▭
U/G Test Hole (S.U.E.*)	⊕
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.

# SURVEY CONTROL SHEET B-4600

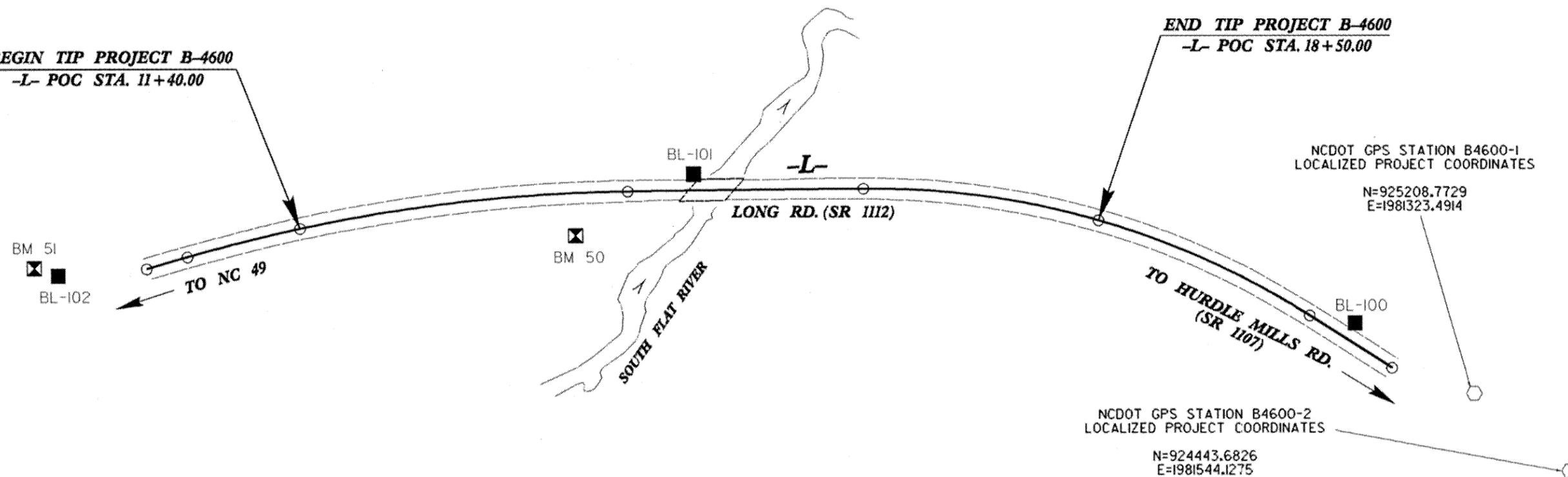
# PERSON COUNTY

**LOCATION: BRIDGE NO. 43 OVER SOUTH FLAT RIVER  
ON SR 1112 (LONG ROAD)**



**BEGIN TIP PROJECT B-4600**  
-L- POC STA. 11+40.00

**END TIP PROJECT B-4600**  
-L- POC STA. 18+50.00



**CONTROL DATA**

BASELINE POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
100	BL-100	925725.2307	1981255.1547	599.26	20+92.23	15.95 LT
101	BL-101	926226.4714	1980930.5876	591.26	14+91.16	14.49 LT
102	BL-102	926556.4561	1980466.2101	611.65		OUTSIDE PROJECT LIMITS

**BENCHMARK DATA**

```

.....
50      ELEVATION = 590.97
N 926261      E 1980818
L STATION 13+84 37 RIGHT
R\R SPIKE SET IN 30" OAK
.....
51      ELEVATION = 613.56
N 926576      E 1980456
L STATION 10+00
N 45° 10' 24.4" W DIST      99.81
R\R SPIKE SET IN 12" GUM
.....

```

**DATUM DESCRIPTION**

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "B4600-1" WITH NAD 83/95 STATE PLANE GRID COORDINATES OF NORTHING: 925208.7729(fft) EASTING: 1981323.4914(fft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 1.00001303 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "B4600-1" TO -L- STATION 11+40.00 IS N 28°49'08.4" W 1401.12' ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

**NOTE: DRAWING NOT TO SCALE**

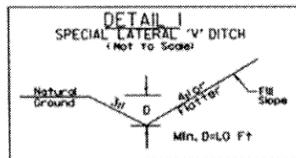
**NOTES:**

- THE CONTROL DATA FOR THIS PROJECT CAN BE FOUND ELECTRONICALLY BY SELECTING PROJECT CONTROL DATA AT:  
[HTTP://WWW.NCDOT.ORG/DOH/PRECONSTRUCT/HIGHWAYLOCATIONPROJECT/B4600\\_ls\\_control\\_081105.txt](http://www.ncdot.org/DOH/PRECONSTRUCT/HIGHWAYLOCATIONPROJECT/B4600_ls_control_081105.txt)
  - SITE CALIBRATION INFORMATION HAS NOT BEEN PROVIDED FOR THIS PROJECT. IF FURTHER INFORMATION IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.
- INDICATES GEODETIC CONTROL MONUMENTS USED OR SET FOR HORIZONTAL PROJECT CONTROL BY THE NCDOT LOCATION AND SURVEYS UNIT.  
PROJECT CONTROL ESTABLISHED USING GLOBAL POSITIONING SYSTEM.  
NETWORK ESTABLISHED FROM NGS ONLINE POSITIONING SERVICE (OPUS)

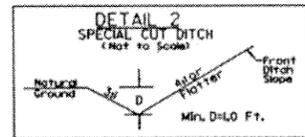
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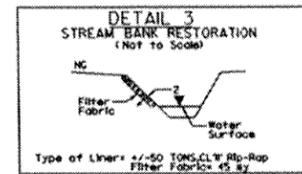
PROJECT REFERENCE NO. B-4600		SHEET NO. 4	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION			



FROM STA. 11+90 TO STA. 14+35 -L- LT  
FROM STA. 15+56 TO STA. 16+00 -L- RT

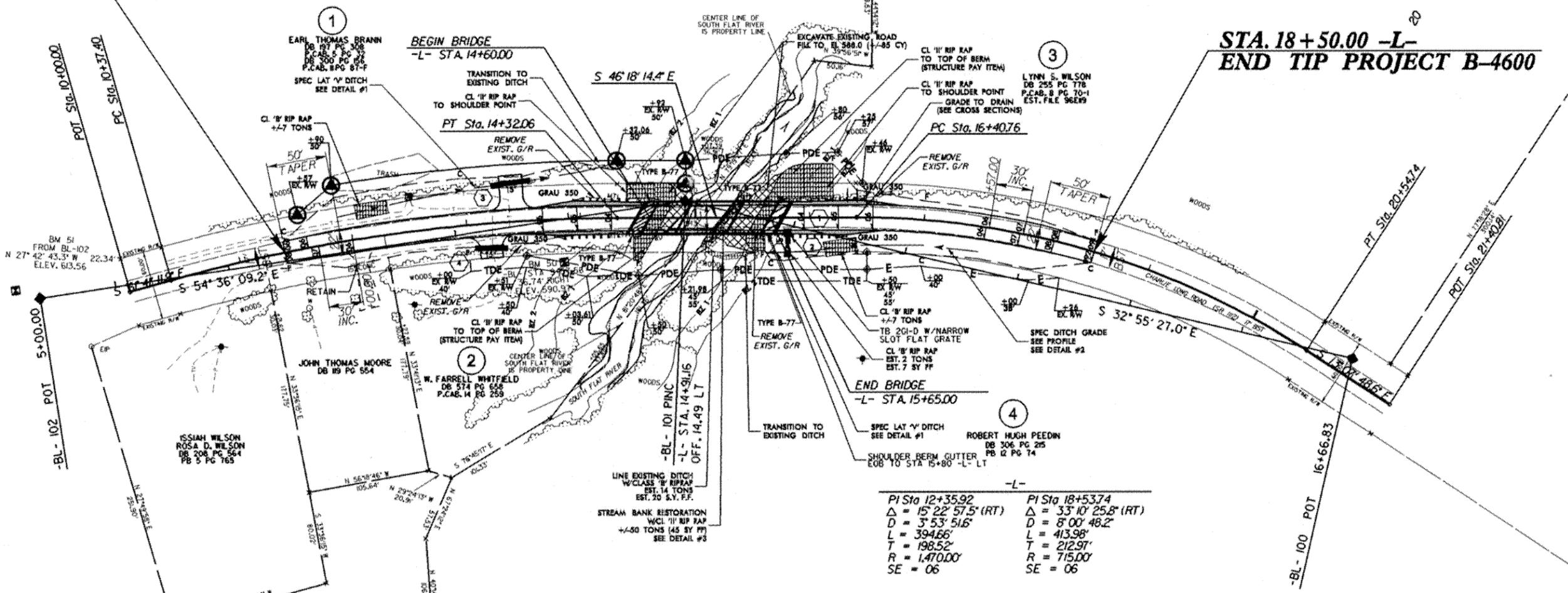


FROM STA. 16+00 TO STA. 17+50 -L- RT

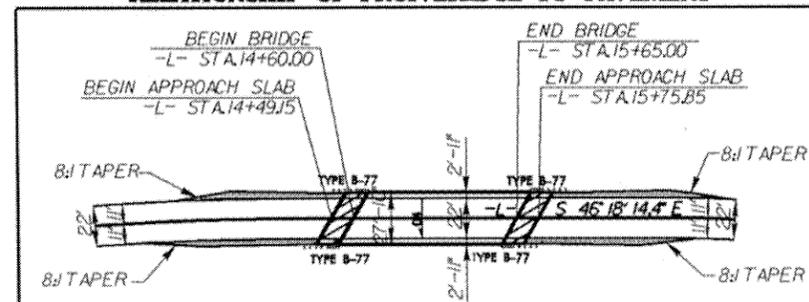


**STA. 11+40.00 -L-  
BEGIN TIP PROJECT B-4600**

**STA. 18+50.00 -L-  
END TIP PROJECT B-4600**



**RELATIONSHIP OF PROP. BRIDGE TO PAVEMENT**



- PAVED SHOULDER
  - BRIDGE APPROACH SLAB
- FOR -L- PROFILE, SEE SHEET NO. 5

REVISIONS  
 R/W REV. 07/16/09 (BMJ) 1. RECONNECTING DRIVEWAYS AND ADDING DRIVEWAY PIPES FOR PARCELS 1 AND 2.  
 2. UPDATING PROPERTY OWNER NAME, PLAT AND DEED BOOK INFORMATION FOR PARCELS 1 THRU 3.  
 3. ADDING PDE -L- STA. 14+92.50 LT. TO STA. 15+80.55 LT. AND -L- STA. 14+50.50 RT. TO STA. 15+21.98. 45 RT. FOR PARCELS 1 THRU 4.

29-JUL-2009 10:07  
 B:\PROJECTS\B-4600.dwg  
 4600.dwg  
 4600.dwg

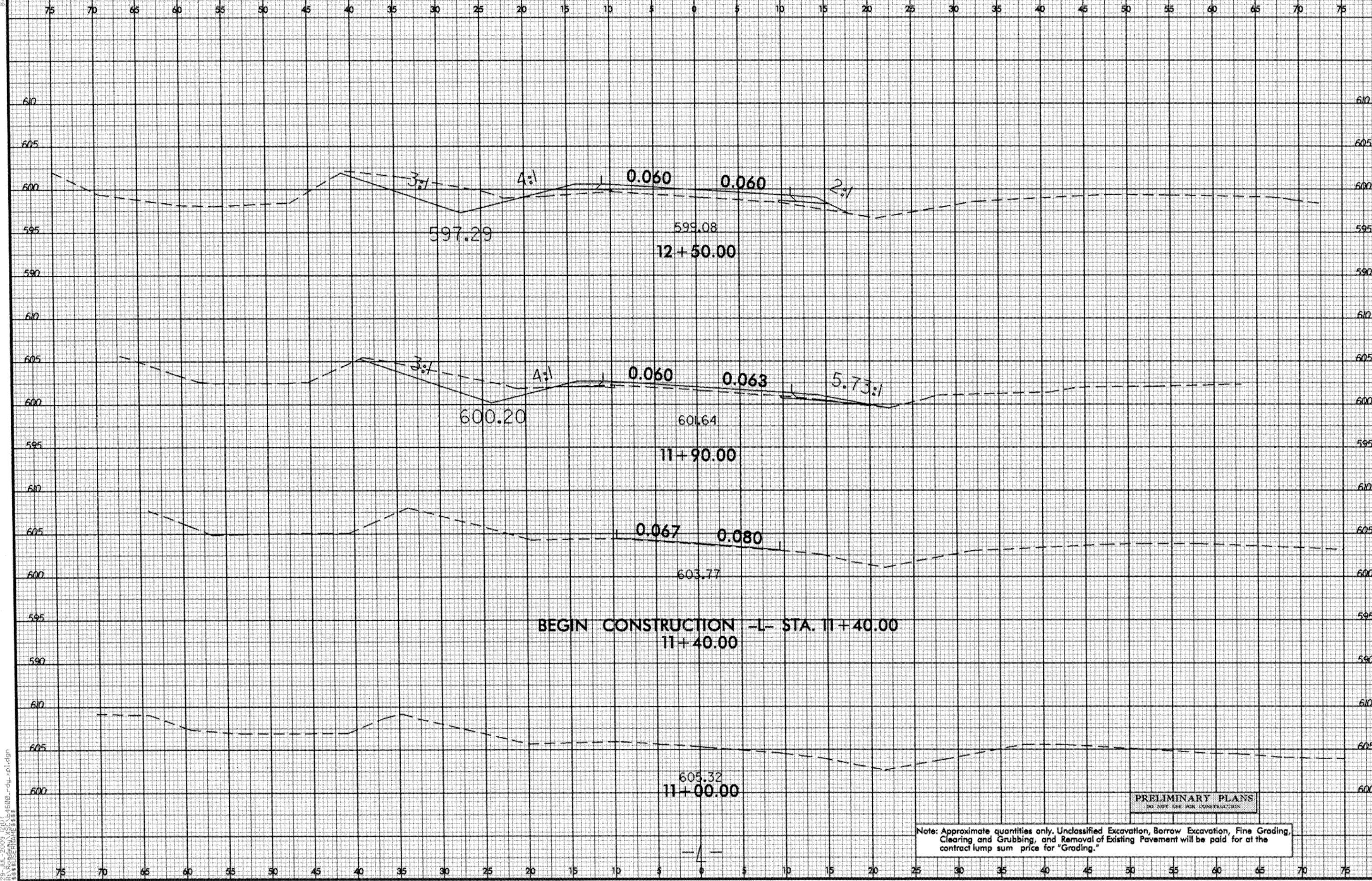


8/23/08

0 2.5 5

PROJ. REFERENCE NO.  
B-4600

SHEET NO.  
X-1



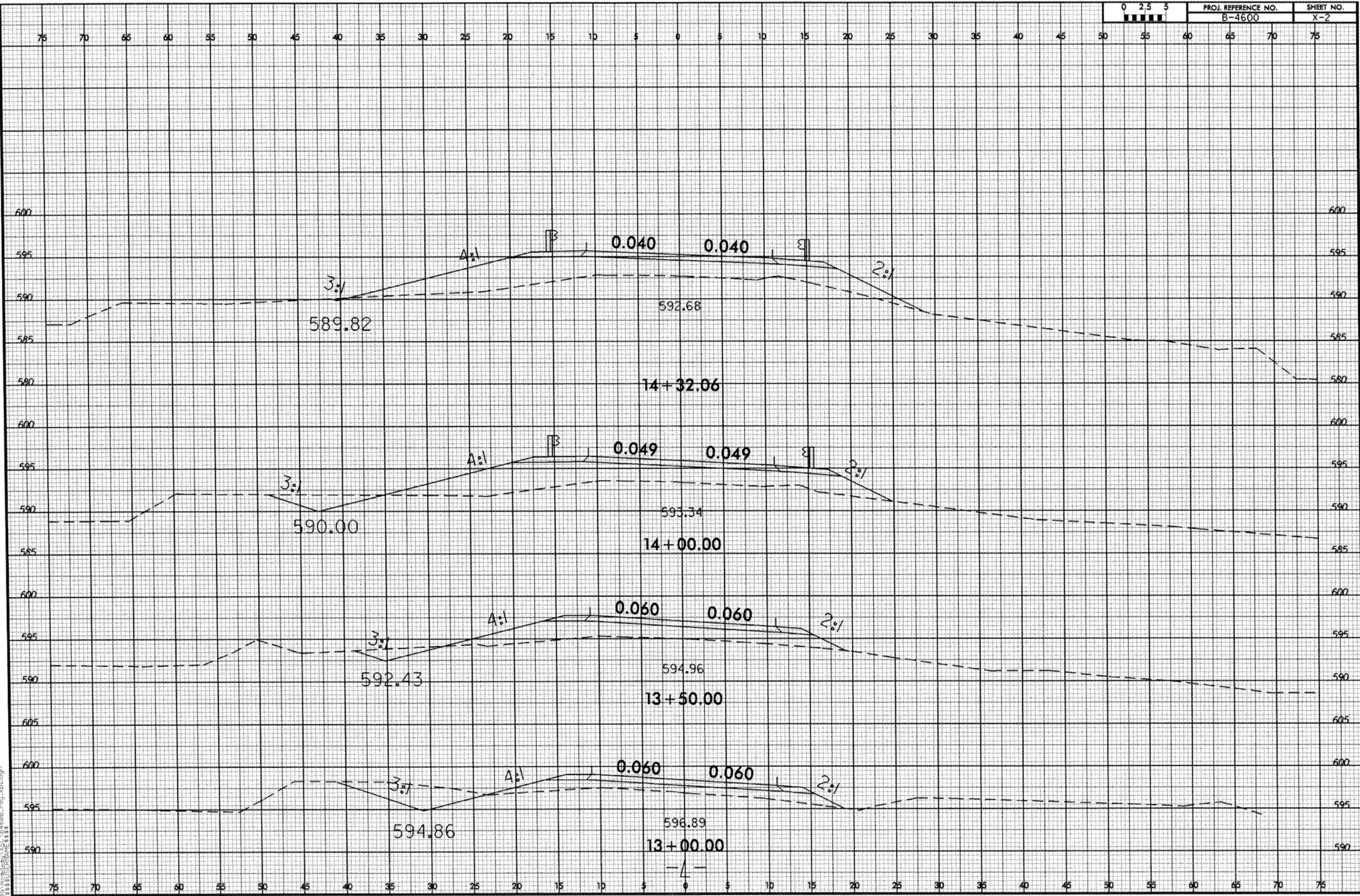
BEGIN CONSTRUCTION -L- STA. 11+40.00  
11+40.00

PRELIMINARY PLANS  
DO NOT USE FOR CONSTRUCTION

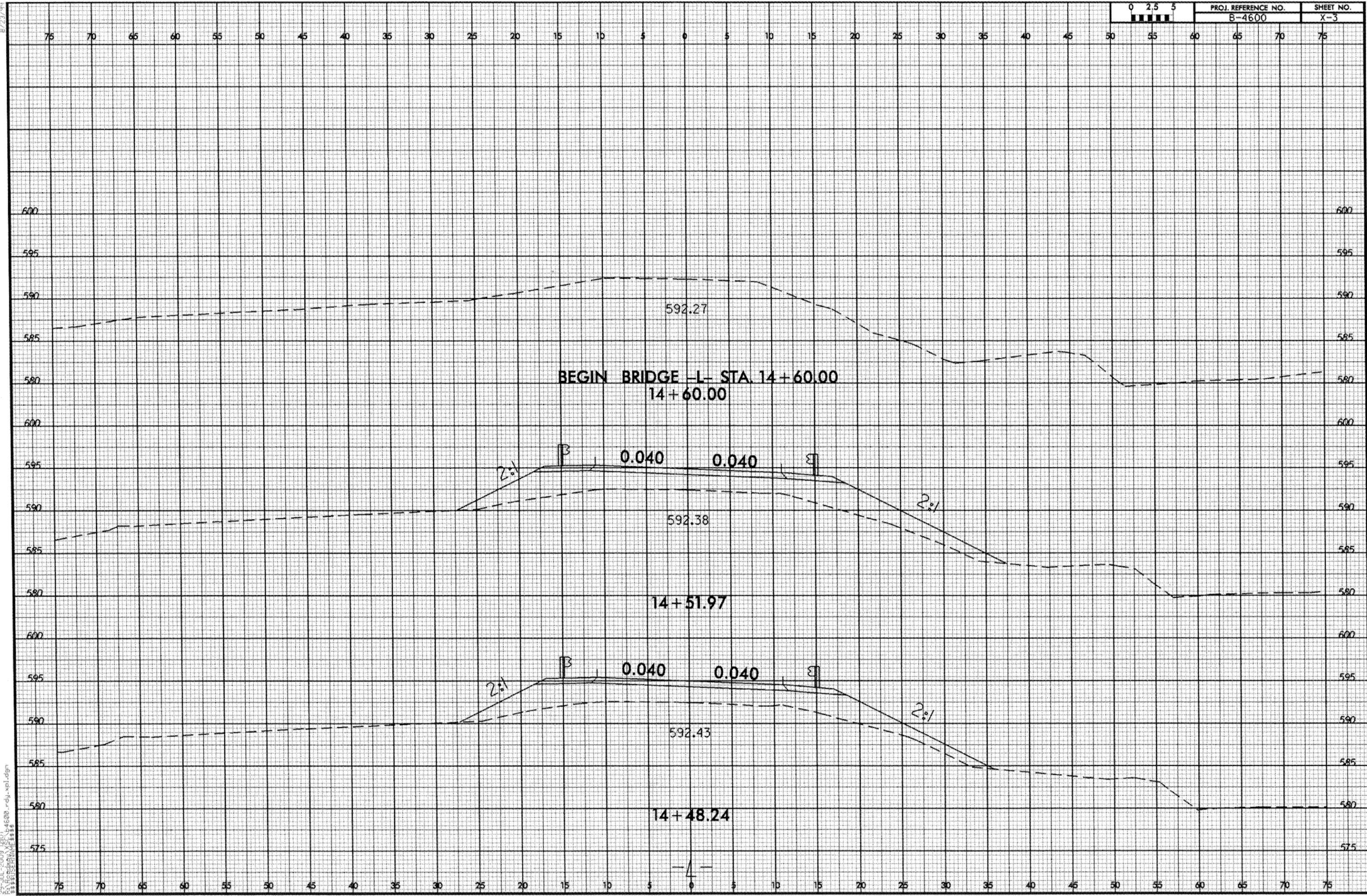
Note: Approximate quantities only. Unclassified Excavation, Borrow Excavation, Fine Grading, Clearing and Grubbing, and Removal of Existing Pavement will be paid for at the contract lump sum price for "Grading."

8/23/08 11:20:07 AM C:\Users\j... \Documents\B-4600-X-1.dgn

8-23-08

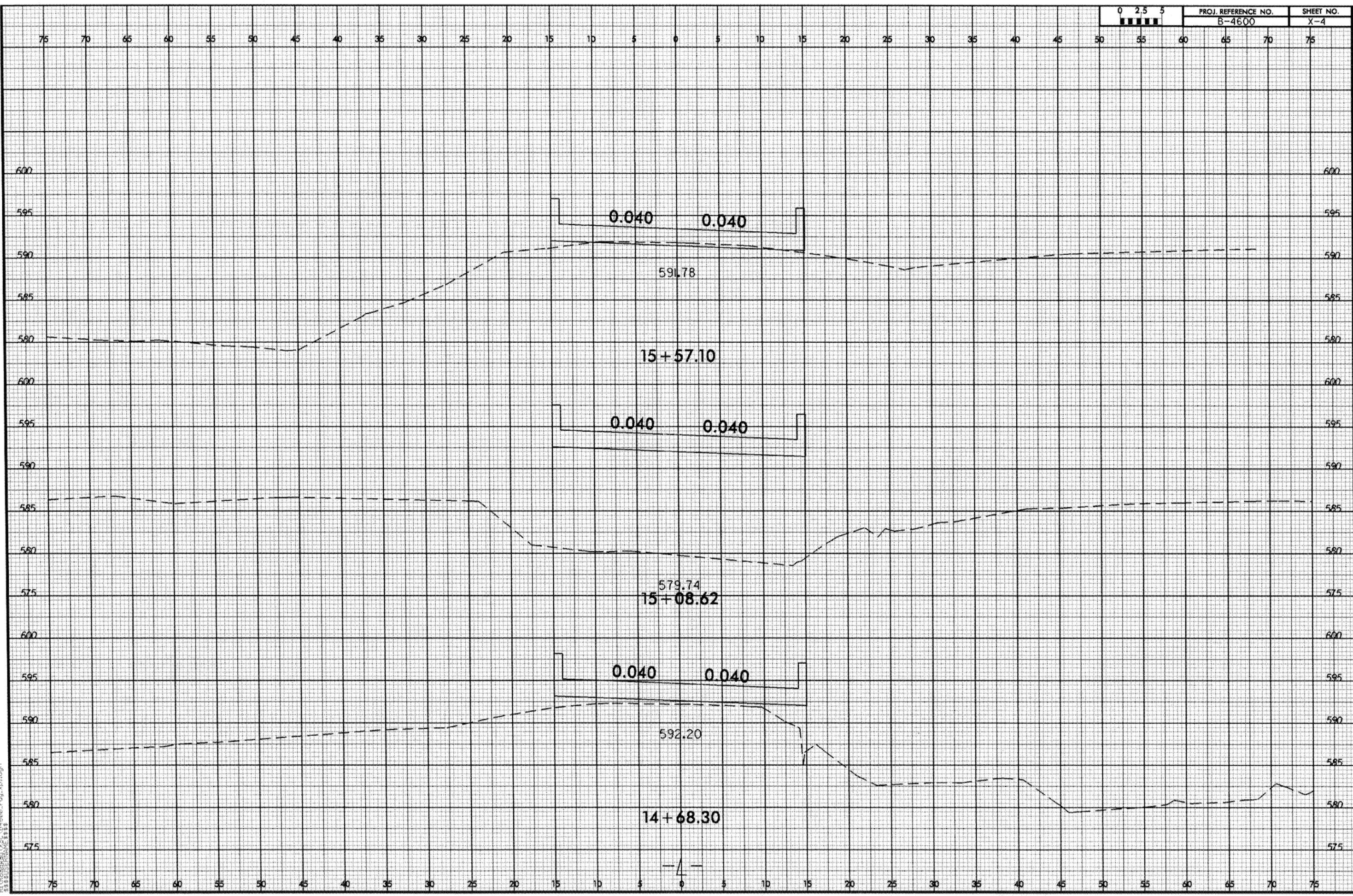


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2011-11-20 09:12:07  
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 11/20/11 9:12 AM

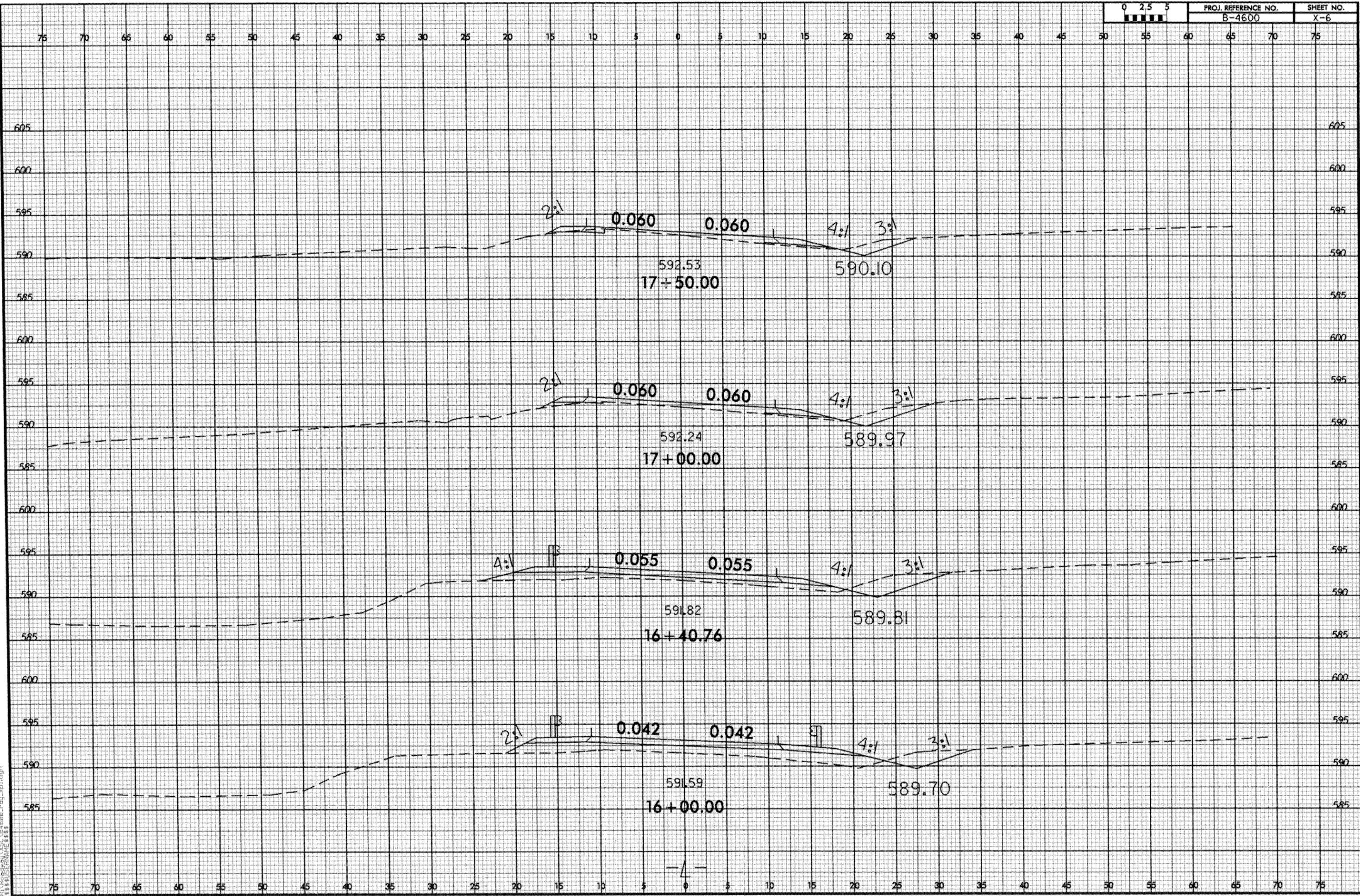
8/23/11



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8/23/08



19-11-2008 10:07  
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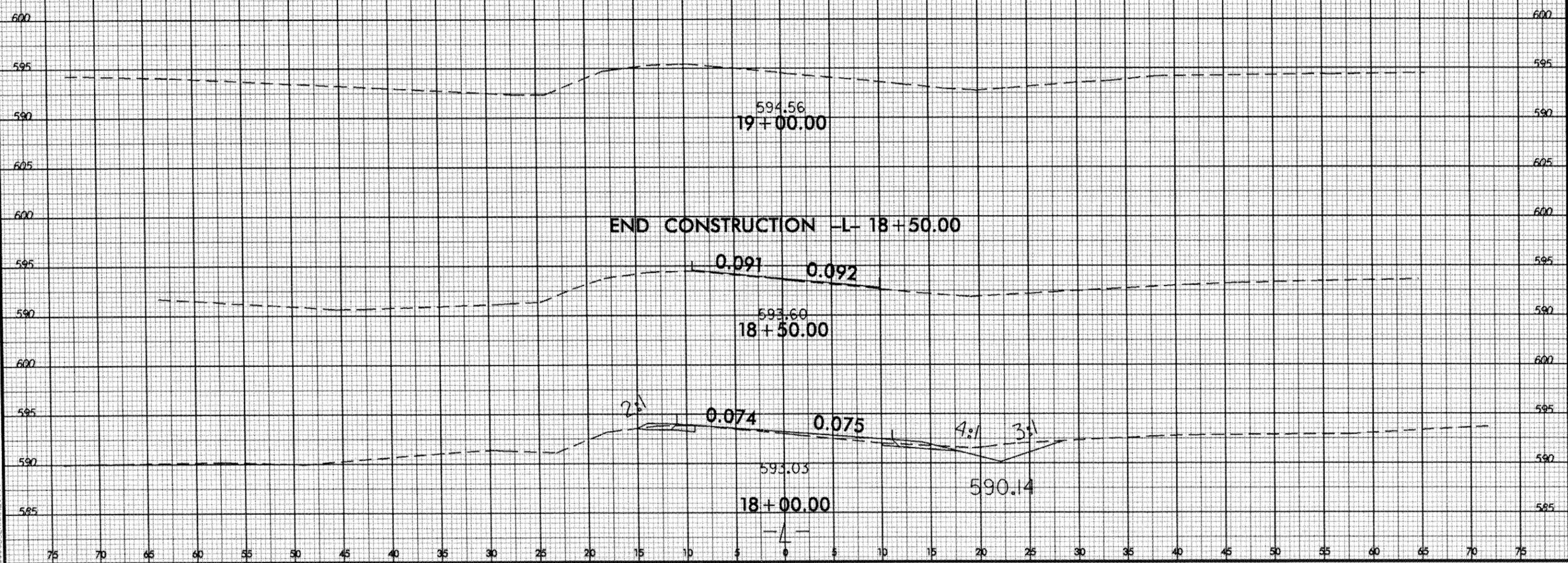
8/23/98

0 2.5 5

PROJ. REFERENCE NO.  
B-4600

SHEET NO.  
X-7

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75



28 JUL 2009 10:07  
S:\PROJECTS\B-4600-01\PLAN.dgn

**NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND  
REQUEST FOR APPEAL**

<b>Applicant: NCDOT; Division of Highways;</b>	<b>File Number: 2007-03756</b>	<b>Date: 8/21/2008</b>
<b>Attached is:</b>		See Section below
<input type="checkbox"/> INITIAL PROFFERED PERMIT (Standard Permit or Letter of permission)		A
<input type="checkbox"/> PROFFERED PERMIT (Standard Permit or Letter of permission)		B
<input type="checkbox"/> PERMIT DENIAL		C
<input checked="" type="checkbox"/> APPROVED JURISDICTIONAL DETERMINATION		D
<input type="checkbox"/> PRELIMINARY JURISDICTIONAL DETERMINATION		E

**SECTION I -** The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at <http://www.usace.army.mil/inet/functions/cw/cecw/reg> or Corps regulations at 33 CFR Part 331.

**A: INITIAL PROFFERED PERMIT: You may accept or object to the permit.**

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- **OBJECT:** If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.

**B: PROFFERED PERMIT: You may accept or appeal the permit**

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- **APPEAL:** If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

**C: PERMIT DENIAL:** You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

**D: APPROVED JURISDICTIONAL DETERMINATION: You may accept or appeal the approved JD or provide new information.**

- **ACCEPT:** You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice, means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.
- **APPEAL:** If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the district engineer. This form must be received by the division engineer within 60 days of the date of this notice.

**E: PRELIMINARY JURISDICTIONAL DETERMINATION:** You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.

**SECTION II - REQUEST FOR APPEAL or OBJECTIONS TO AN INITIAL PROFFERED PERMIT**

**REASONS FOR APPEAL OR OBJECTIONS:** (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)

**ADDITIONAL INFORMATION:** The appeal is limited to a review of the administrative record, the Corps memorandum for the record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses to the record. However, you may provide additional information to clarify the location of information that is already in the administrative record.

**POINT OF CONTACT FOR QUESTIONS OR INFORMATION:**

If you have questions regarding this decision and/or the appeal process you may contact:

Jean Manuele  
U.S. Army Corps of Engineers,  
Raleigh Regulatory Field Office  
3331 Heritage Trade Drive, Suite 105  
Wake Forest, North Carolina 27587

If you only have questions regarding the appeal process you may also contact:

Mr. Mike Bell, Administrative Appeal Review Officer  
CESAD-ET-CO-R  
U.S. Army Corps of Engineers, South Atlantic Division  
60 Forsyth Street, Room 9M15  
Atlanta, Georgia 30303-8801

**RIGHT OF ENTRY:** Your signature below grants the right of entry to Corps of Engineers personnel, and any government consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a 15 day notice of any site investigation, and will have the opportunity to participate in all site investigations.

<hr/> Signature of appellant or agent.	Date:	Telephone number:
---	-------	-------------------

**For appeals on Initial Proffered Permits and approved Jurisdictional Determinations send this form to:**

**District Engineer, Wilmington Regulatory Division, Attn: Jean Manuele, Project Manager, Raleigh Regulatory Field Office, 3331 Heritage Trade Drive, Suite 105, Wake Forest, North Carolina 27587**

**For Permit denials and Proffered Permits send this form to:**

**Division Engineer, Commander, U.S. Army Engineer Division, South Atlantic, Attn: Mr. Mike Bell, Administrative Appeal Officer, CESAD-ET-CO-R, 60 Forsyth Street, Room 9M15, Atlanta, Georgia 30303-8801**

# STORMWATER MANAGEMENT PLAN

Project: 33792.1.1

TIP No. B-4600

Person County

04/20/2009

Hydraulics Project Manager: W. Henry Wells Jr., P.E. (Sungate Design Group),  
Marshall Clawson, P.E. (NCDOT Hydraulics Unit)

## ROADWAY DESCRIPTION

The project B-4600 consists of constructing a new bridge 105 feet long to replace the existing bridge #43 in Person County on SR-1100 over South Flat River. The total project length is 0.135 miles. The project creates impacts to South Flat River, which is located in the Neuse River Basin. The project drainage systems consist of grated inlets with associated pipe systems, and rip rap energy dissipaters at the pipe outlets.

Jurisdiction Stream: South Flat River

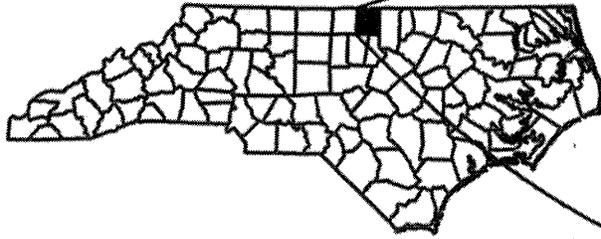
## ENVIRONMENTAL DESCRIPTION

The project is located within the Neuse River Basin in Person County, which is not a CAMA county. There are no wetlands within the project limits. The South Flat River is subject to the Neuse River buffer rules. Impacts to the buffer have been minimized by and using rip rap energy dissipaters at the pipe outlets and reducing the roadway approach work to minimize fill slopes encroachment into the buffers.

## BEST MANAGEMENT PRACTICES AND MAJOR STRUCTURES

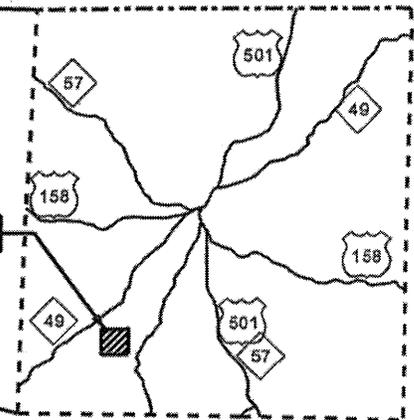
The primary goal of Best Management Practices (BMPs) is to prevent degradation of the states surface waters by the location, construction and operation of the highway system. The BMPs are activities, practices and procedures taken to prevent or reduce stormwater pollution. The BMP measures used on this project to reduce stormwater impacts are:

- Rip rap energy dissipaters at pipe outlets.

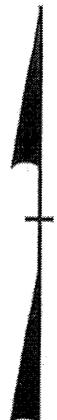
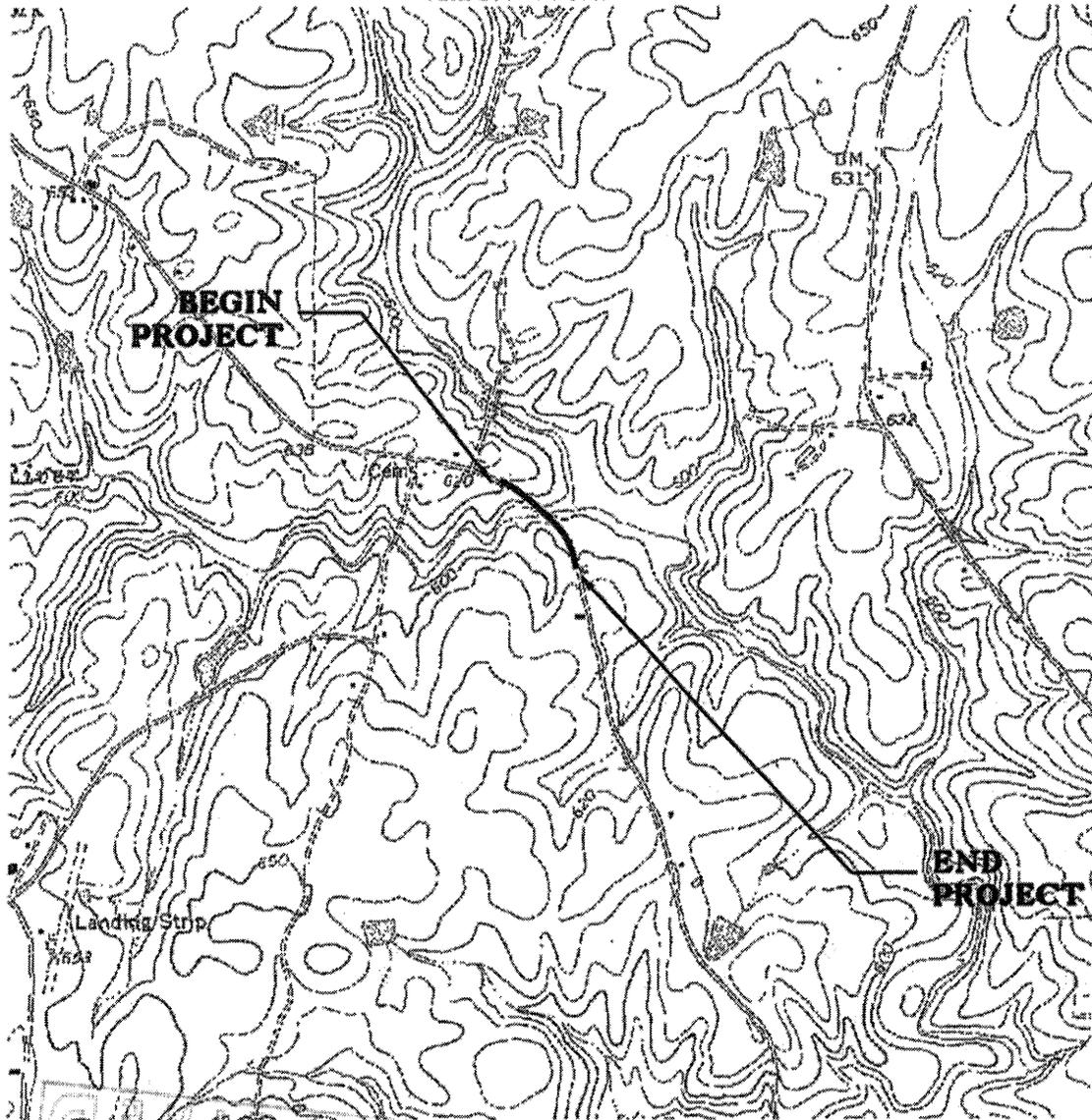


SEE INSET BELOW

SITE



PERSON COUNTY



**N.C. DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
PERSON COUNTY**

**PROJECT: 33792.1.1 (B-4600)  
BRIDGE NO. 43 OVER  
SOUTH FLAT RIVER  
ON SR 1112 (LONG ROAD)**

**SHEET 1 OF 9 7-31-09**

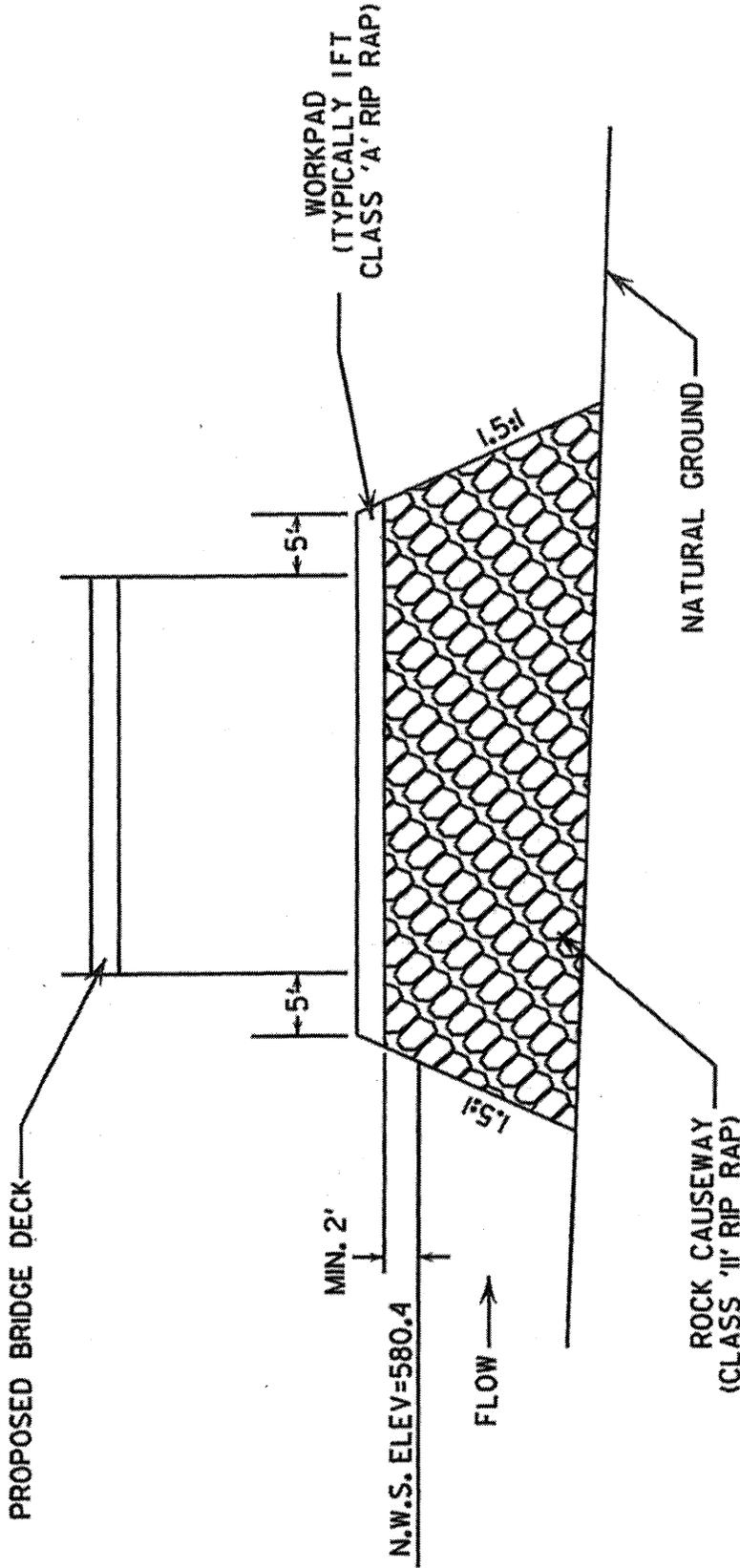
**PROPERTY OWNERS**  
NAMES AND ADDRESSES

PARCEL NO.	NAMES	ADDRESSES
3	LYNN S. WILSON	244 MYRTLE J DRIVE HURDLE MILLS, NC 27541

WETLAND/STREAM  
IMPACTS

**NCDOT**  
DIVISION OF HIGHWAYS  
PERSON COUNTY  
PROJECT: 33792.1.1 (B-4600)  
BRIDGE NO. 43 OVER  
SOUTH FLAT RIVER  
ON SR 1112 (LONG ROAD)  
SHEET 2 OF 9 7-31-09

# WORKPAD DETAIL (NOT TO SCALE)



N.C. DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS

PERSON COUNTY

PROJECT: 33792.1.1 (B-4600)  
BRIDGE NO. 43  
OVER SOUTH FLAT RIVER  
ON SR 1112 (LONG ROAD)

SHEET 3 OF 9 7/31/09

## QUANTITIES OF ESTIMATES

VOLUME OF CLASS II RIP RAP = 75 yds<sup>3</sup>  
 AREA OF CLASS II RIP RAP = 0.023 ac  
 Estimate 110 Tons Class 'II' Rip Rap  
 Estimate 50 Tons Class 'A' Rip Rap

