



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI
SECRETARY

April 22, 2009

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

ATTENTION: William Wescott
NCDOT Coordinator

Dear Sir:

Subject: **Application for Section 404 Nationwide Permit 23 and Section 401 Water Quality Authorization** for the proposed replacement of Bridge No. 1 on SR 1628 (Woodbridge Rd.) over an Overflow of Contentnea Creek (Run of Beaverdam Swamp), Wilson County. Federal Aid Project No. BRSTP-1628(2), WBS 41537.1.1, TIP No. B-4992.

Please find enclosed the PCN form, permit drawings, and half-size plan sheets for the above referenced project. A Programmatic Categorical Exclusion (PCE) was completed for this project in June 2008, and distributed shortly thereafter. Additional copies will be made available upon request. The North Carolina Department of Transportation (NCDOT) proposes to replace existing Bridge No. 1 on SR 1628 over an overflow of Contentnea Creek in Wilson County. The project involves replacement of the existing 56-foot structure with a 100-foot bridge in approximately the same location. This project is being coordinated with the replacement of Wilson County Bridge No. 2 (TIP B-4682; same scheduled let) over Contentnea Creek approximately 1,500 feet west of Bridge No. 1 on SR 1628.

There will be 0.02 acre of permanent impacts to riparian wetlands resulting from fill and excavation on this project. As the bridged feature acts as an overflow for Contentnea Creek and is considered a wetland, there are no surface water or buffer impacts (certified by NCDWQ on 3/28/08; see attached) associated with this project.

Regulatory approvals

Section 404 Permit: All aspects of this project are being processed by the Federal Highway Administration as a "Categorical Exclusion" in accordance with 23 CFR 771.115(b). The

MAILING ADDRESS:
NC DEPARTMENT OF TRANSPORTATION
PROJECT DEVELOPMENT AND ENVIRONMENTAL ANALYSIS
1548 MAIL SERVICE CENTER
RALEIGH NC 27699-1548

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

WEBSITE: WWW.NCDOT.ORG

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

NCDOT requests that these activities be authorized by a Nationwide Permit 23 (72 CFR; 11092-11198, March 12, 2007).

Section 401 Water Quality Certification: We anticipate 401 General Certification number 3701 will apply to this project. All general conditions of the Water Quality Certifications will be met, therefore we are not requesting written concurrence from NCDWQ. In accordance with 15A NCAC 2H, Section .0500(a), we are providing two copies of this application to the NCDWQ for their review.

Neuse River Riparian Buffer Authorization: Surface waters on this project have been exempted from the Neuse River buffer rules by the NCDWQ. Please see attached documentation.

A copy of this application will be posted on the NCDOT website at: <http://www.ncdot.org/doh/preconstruct/pe/neu/permit.html>

Thank you for your time and assistance with this project. Please contact Amy James at aejames@ncdot.gov or (919) 431-6756 if you have any questions or need additional information.

Sincerely,



for

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

CC:

W/attachment

Mr. Brian Wrenn, NCDWQ (2 copies)

W/o attachment (see website for attachments)

Dr. David Chang, P.E., Hydraulics
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. Travis Wilson, NCWRC
Mr. Gary Jordan, USFWS
Mr. Ron Sechler, NMFS
Ms. Anne Deaton, NCDMF
Ms. Pam Williams, PDEA
Mr. Mark Staley, Roadside Environmental
Mr. Greg Perfetti, P.E., Structure Design
Mr. Victor Barbour, P.E., Project Services Unit
Mr. Richard E. Greene, P.E., Division 4 Engineer
Mr. Chad Coggins, Division 4 Environmental Officer



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: 23	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 type="checkbox"/> 401 Water Quality Certification – Regular <input type="checkbox"/> Non-404 Jurisdictional General Permit <input type="checkbox"/> 401 Water Quality Certification – Express <input 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 checked="" type="checkbox"/> Yes <input 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 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:	Bridge No. 1 over Beaverdam Swamp on SR 1628 (Woodbridge Rd.)
2b. County:	Wilson
2c. Nearest municipality / town:	Stantonsburg
2d. Subdivision name:	not applicable
2e. NCDOT only, T.I.P. or state project no:	B-4992

3. Owner Information

3a. Name(s) on Recorded Deed:	North Carolina Department of Transportation
3b. Deed Book and Page No.	
3c. Responsible Party (for LLC if applicable):	not applicable
3d. Street address:	1 South Wilmington Street
3e. City, state, zip:	Raleigh, NC 27601
3f. Telephone no.:	(919) 431-6756
3g. Fax no.:	(919) 431-2002
3h. Email address:	aejames@ncdot.gov

4. Applicant Information (if different from owner)	
4a. Applicant is:	<input type="checkbox"/> Agent <input type="checkbox"/> Other, specify:
4b. Name:	not applicable
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:	not applicable
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):	N/A
1b. Site coordinates (in decimal degrees):	Latitude: 35.6127 (DD.DDDDDD) Longitude: - 77.8609 (-DD.DDDDDD)
1c. Property size:	0.25 acres
2. Surface Waters	
2a. Name of nearest body of water (stream, river, etc.) to proposed project:	Contentnea Creek
2b. Water Quality Classification of nearest receiving water:	C Sw 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: Undeveloped woodland, agricultural fields, and rural residential.	
3b. List the total estimated acreage of all existing wetlands on the property: 0.29 acre	
3c. List the total estimated linear feet of all existing streams (intermittent and perennial) on the property: 0	
3d. Explain the purpose of the proposed project: To replace a structurally deficient and/ or functionally obsolete bridge.	
3e. Describe the overall project in detail, including the type of equipment to be used: The project involves replacing a 56-foot bridge with a 100-foot, two-span 21' cored slab on the existing alignment with an off-site detour. The existing structure is constructed of reinforced concrete flooring on steel I-beams with a substructure composed of reinforced concrete caps on timber piles, which are nearing the end of their useful life. Standard road building equipment, such as trucks, dozers, and cranes will be used.	
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:	<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: STV/Ralph Whitehead Other: for NCDOT
4d. If yes, list the dates of the Corps jurisdictional determinations or State determinations and attach documentation. October 21, 2008	
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 checked="" type="checkbox"/> Wetlands		<input type="checkbox"/> Streams - tributaries		<input 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 checked="" type="checkbox"/> P <input type="checkbox"/> T	Fill		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	0.01	
W2 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Excavation		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	0.01	
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					0.02	
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						
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 checked="" 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?	6f. Zone 1 impact (square feet)	6g. Zone 2 impact (square feet)
B1 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No		
B2 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No		
B3 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No		
6h. Total buffer impacts					

6i. Comments: The feature being bridged acts as a wetland; therefore, buffers are not required (see DWQ signoff attached).

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 proposed bridge is 44 feet longer than the existing bridge; the proposed bridge will be at approximately the same location and grade as the existing structure; and minimum widths were used for structures and approaches.		
1b. Specifically describe measures taken to avoid or minimize the proposed impacts through construction techniques. An off-site detour will be utilized; 3:1 fill slopes will be used where practicable.		
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	
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? Yes 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.

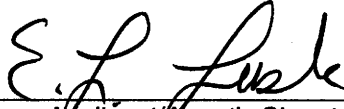
Zone	6c. Reason for impact	6d. Total impact (square feet)	Multiplier	6e. Required mitigation (square feet)
Zone 1			3 (2 for Catawba)	
Zone 2			1.5	
6f. Total buffer mitigation required:				

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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No
1b. If yes, then is a diffuse flow plan included? If no, explain why. Comments:	<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 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
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"/> HWQ <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.	
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	

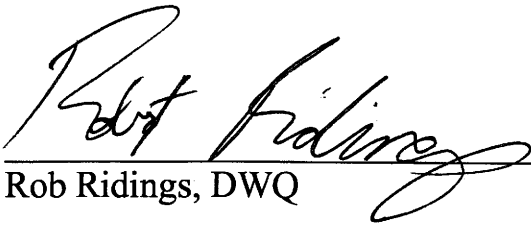
5. Endangered Species and Designated Critical Habitat (Corps Requirement)		
5a. Will this project occur in or near an area with federally protected species or habitat?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
5b. Have you checked with the USFWS concerning Endangered Species Act impacts?	<input type="checkbox"/> Yes	<input 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? US Fish and Wildlife Service website, Natural Heritage Program database, field survey		
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 checked="" type="checkbox"/> No
6b. What data sources did you use to determine whether your site would impact Essential Fish Habitat? National Marine Fisheries County and Waterbody List		
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 checked="" type="checkbox"/> No
7b. What data sources did you use to determine whether your site would impact historic or archeological resources?		
8. Flood Zone Designation (Corps Requirement)		
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:		
8c. What source(s) did you use to make the floodplain determination?		
B.L. Lusk Applicant/Agent's Printed Name	 Applicant/Agent's Signature (Agent's signature is valid only if an authorization letter from the applicant is provided.)	4.22.09 Date

B-4992

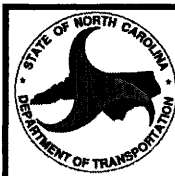
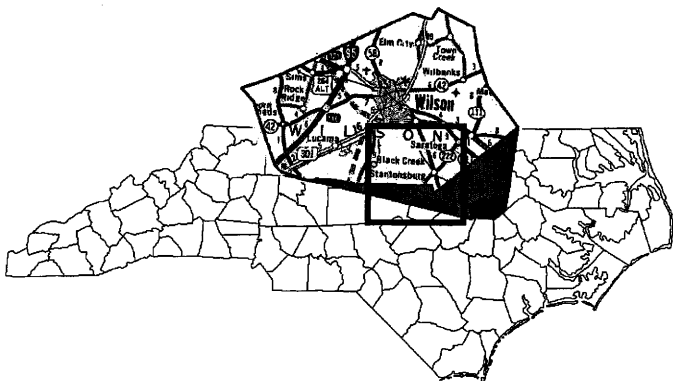
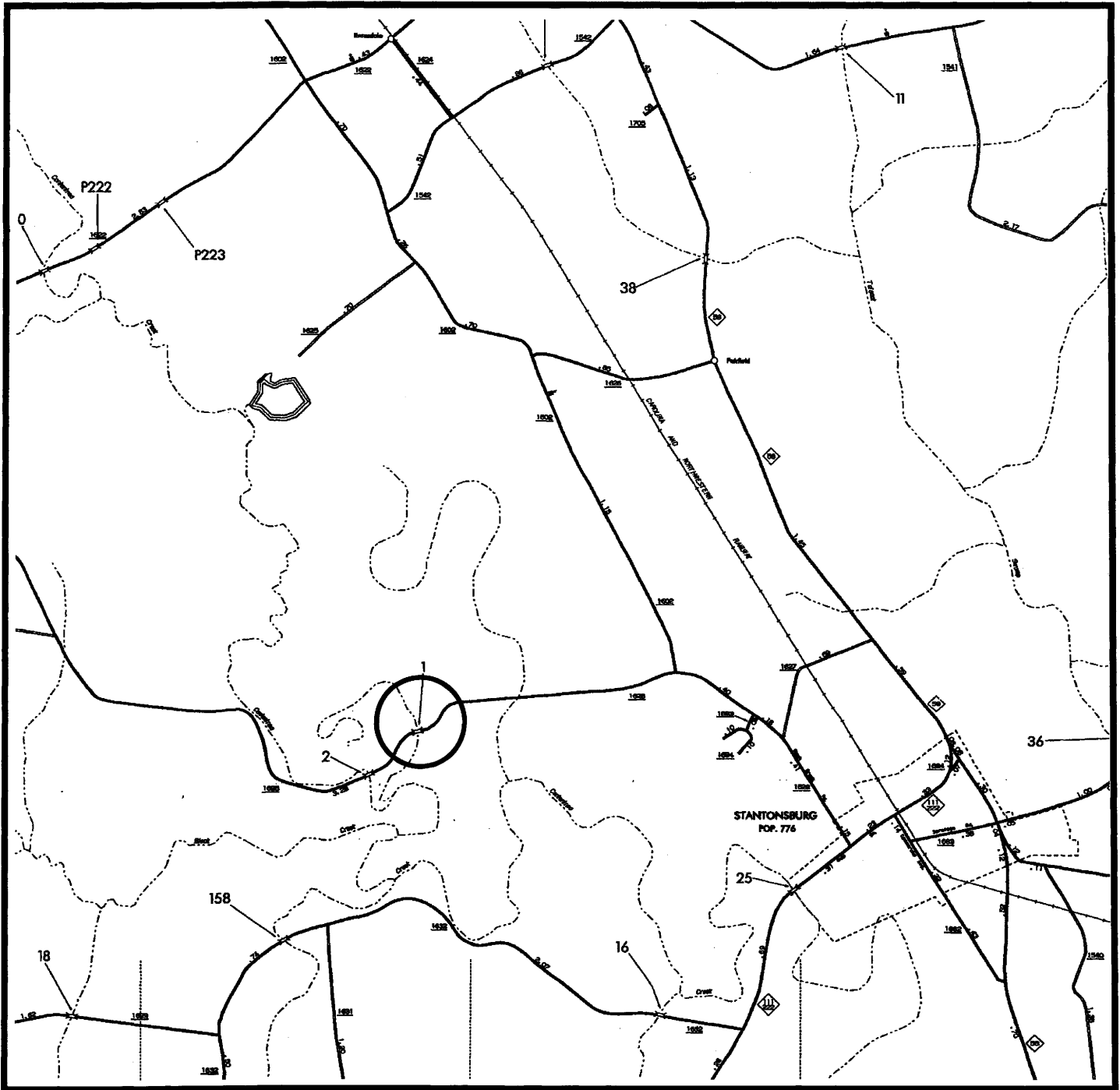
As determined by onsite field investigation on March 28, 2008; by NC DWQ staff Rob Ridings, the water feature depicted on the USGS Topo map this is crossed by Bridge No. 1 on SR 1628 (B-4992)

is subject to the Neuse Riparian Buffer Rules

is not subject to the Neuse Riparian Buffer Rules



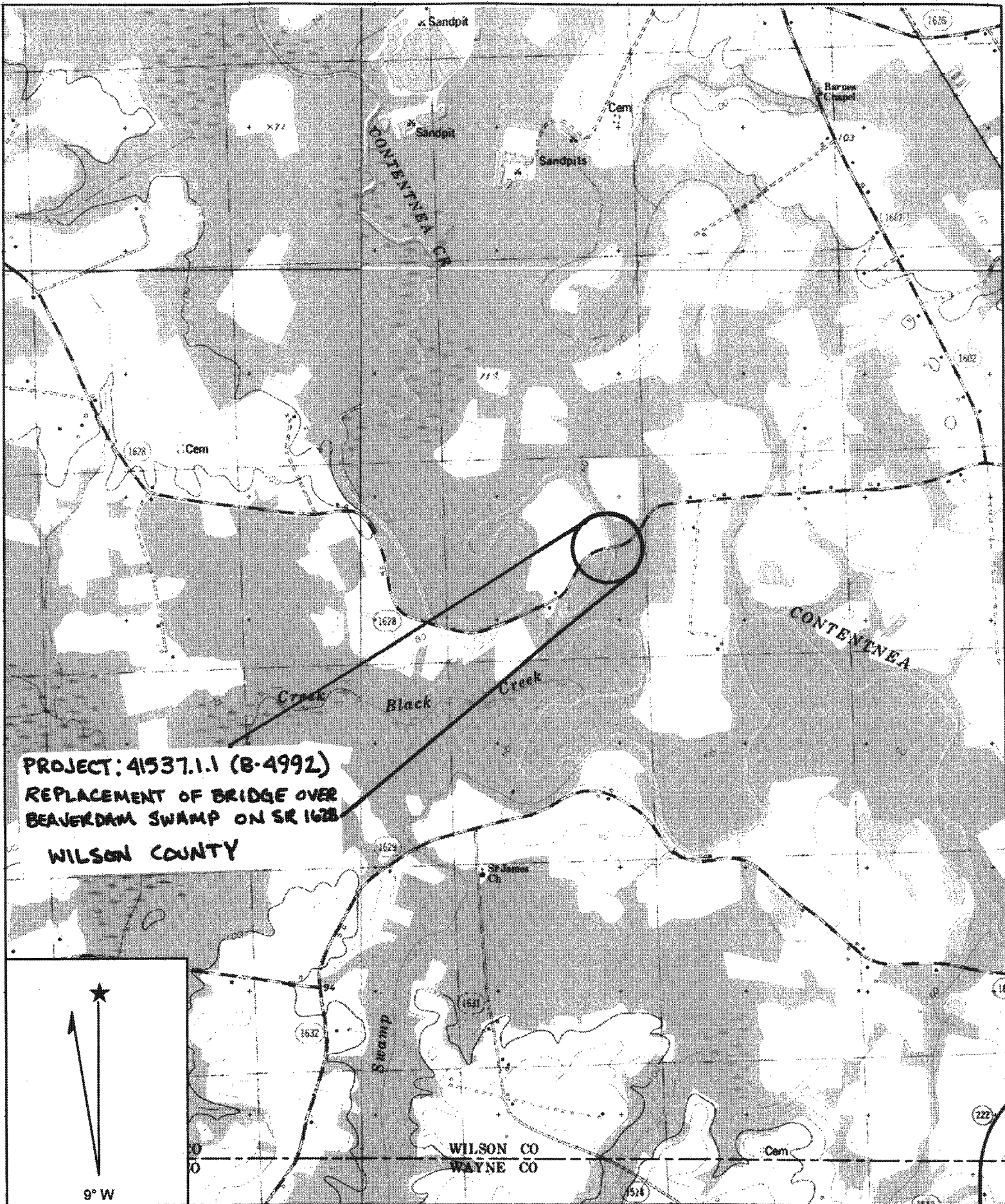
Rob Ridings, DWQ



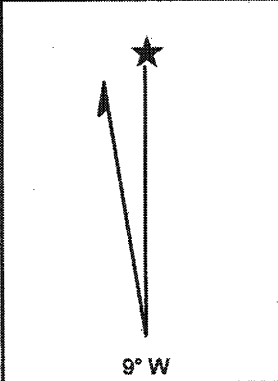
NORTH CAROLINA DEPARTMENT OF
TRANSPORTATION
DIVISION OF HIGHWAYS
PROJECT DEVELOPMENT &
ENVIRONMENTAL ANALYSIS BRANCH

WILSON COUNTY
REPLACE BRIDGE NO. 1 ON SR 1628
OVER CONTENTNEA CREEK OVERFLOW
B-4992

Figure 1



PROJECT: 41537.1.1 (B-4992)
REPLACEMENT OF BRIDGE OVER
BEAVERDAM SWAMP ON SR 1628
WILSON COUNTY

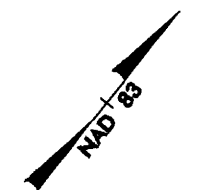


Name: STANTONSBURG
 Date: 9/15/2008
 Scale: 1 inch equals 2000 feet

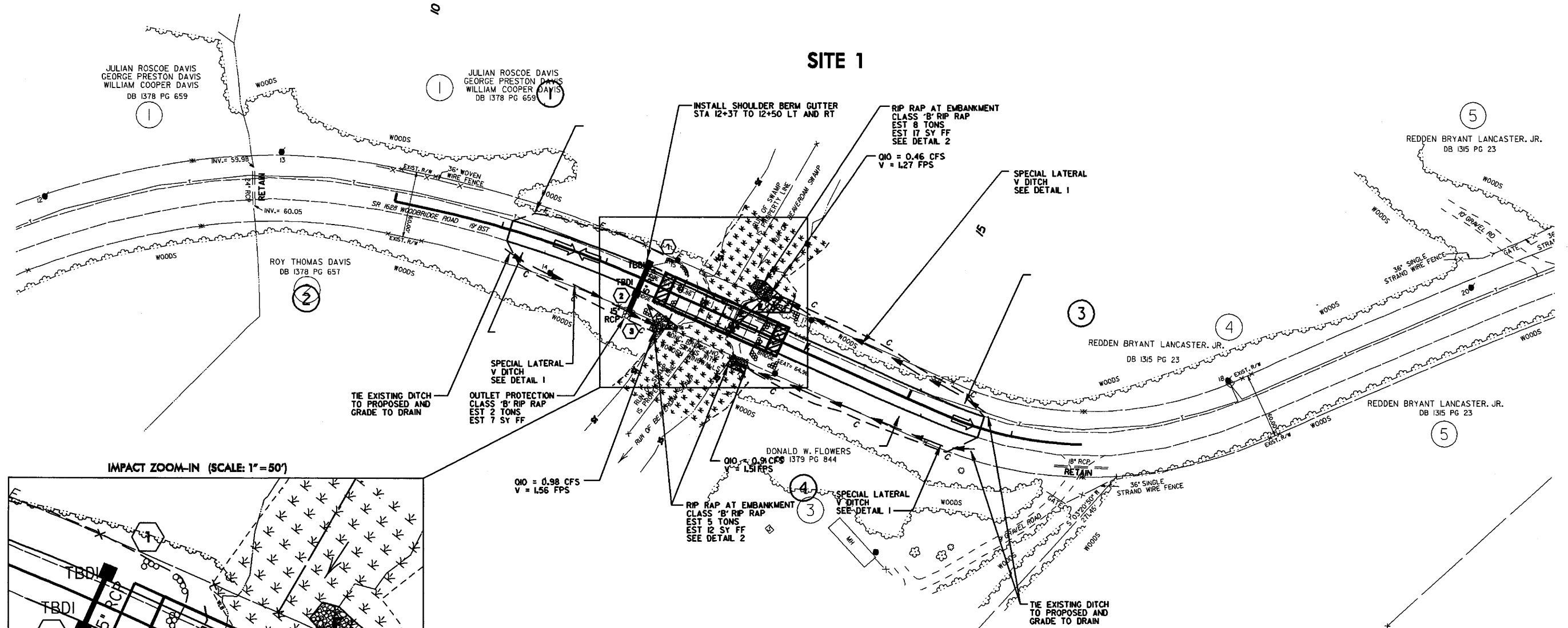
Location: 035° 36' 36.2" N 077° 52' 01.6" W
 Caption: Project: 41537.1.1 (B-4992)
 Wilson County

Permit Drawing
 Sheet 2 of 8

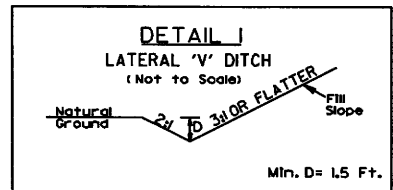
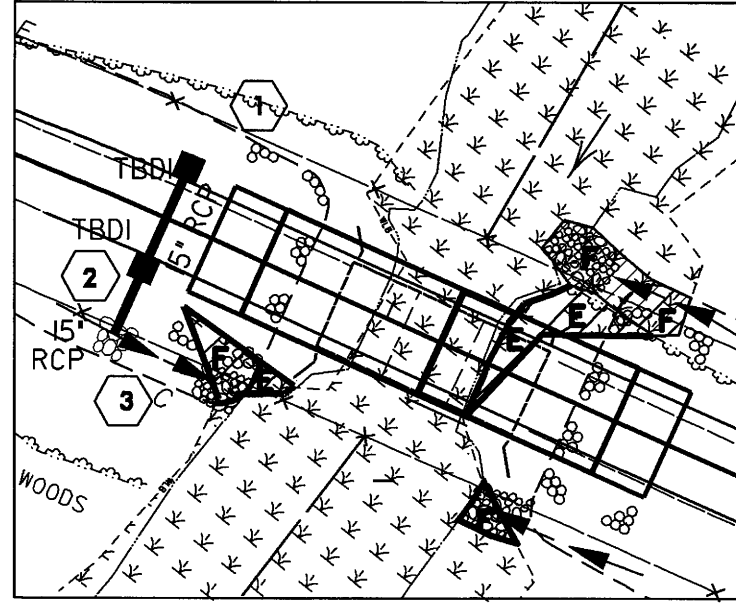
PROJECT REFERENCE NO. B-4992	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR L/W ACQUISITION PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	



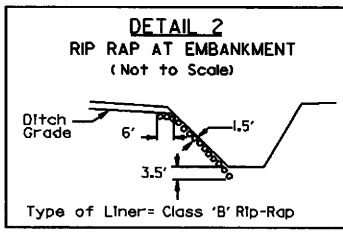
SITE 1



IMPACT ZOOM-IN (SCALE: 1"=50')



- STA 11+08 TO STA 12+70 (RT)
- STA 13+45 TO STA 15+72 (RT)
- STA 13+80 TO STA 15+72 (LT)



- STA 12+70 (RT)
- STA 13+65 (LT)
- STA 13+45 (RT)

N. C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 WILSON COUNTY
 PROJECT: 41637.11 (B-4992)
 BRIDGE NO. 1 ON SR 1628
 (WOODBIDGE RD) OVER
 RUN OF BEAVERDAM SWAMP
 DATE: 12/9/2008



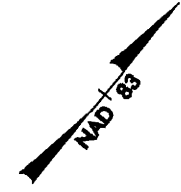
	DENOTES FILL IN WETLAND
	DENOTES EXCAVATION IN WETLAND
	DENOTES TEMPORARY FILL IN WETLAND

REVISIONS

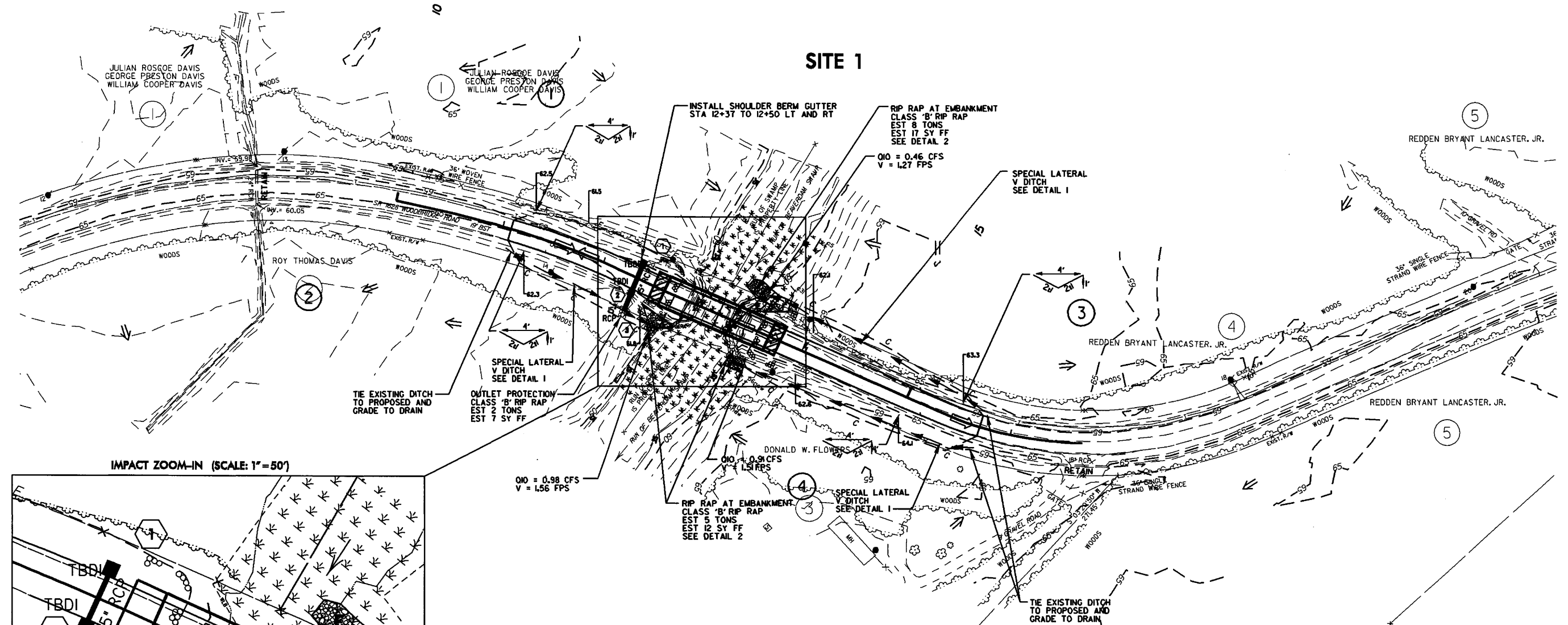
B/17/99

30-MAR-2009 14:47
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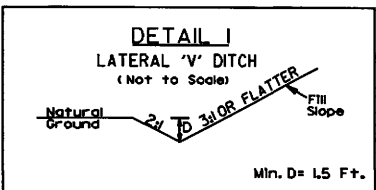
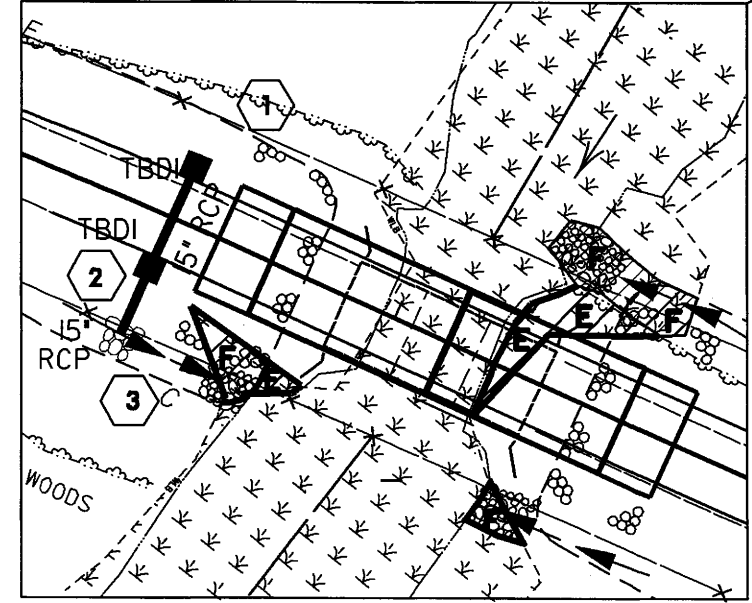
PROJECT REFERENCE NO. B-4992	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR ACQUISITION PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	



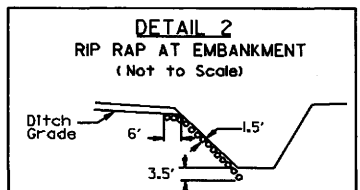
SITE 1



IMPACT ZOOM-IN (SCALE: 1"=50')



- STA 11+08 TO STA 12+70 (RT)
- STA 13+45 TO STA 15+72 (RT)
- STA 13+80 TO STA 15+72 (LT)



- STA 12+70 (RT)
- STA 13+65 (LT)
- STA 13+45 (RT)

N. C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 WILSON COUNTY
 PROJECT: 41587.11 (B-4992)
 BRIDGE NO. 1 ON SR 1638
 (WOODBIDGE RD OVER
 RUN OF BEAVERDAM SWAMP)
 DATE: 12/9/2006

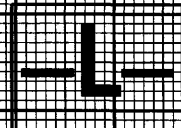


	DENOTES FILL IN WETLAND
	DENOTES EXCAVATION IN WETLAND
	DENOTES TEMPORARY FILL IN WETLAND

REVISIONS

30-MAR-2009 15:07
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 8/17/99

BRIDGE HYDRAULIC DATA	
NO. BRIDGE	
DRAINAGE AREA	= 270.4 SQ MI
DESIGN FREQUENCY	= 25 YRS
DESIGN DISCHARGE	= 7800 CFS
DESIGN HW ELEVATION	= 66.2 FT
100 YEAR DISCHARGE	= 10000 CFS
100 YEAR HW ELEVATION	= 67.1 FT
OVERTOPPING FREQUENCY	= < 10 YRS
OVERTOPPING DISCHARGE	= < 9900 CFS
OVERTOPPING ELEVATION	= 68.1 FT



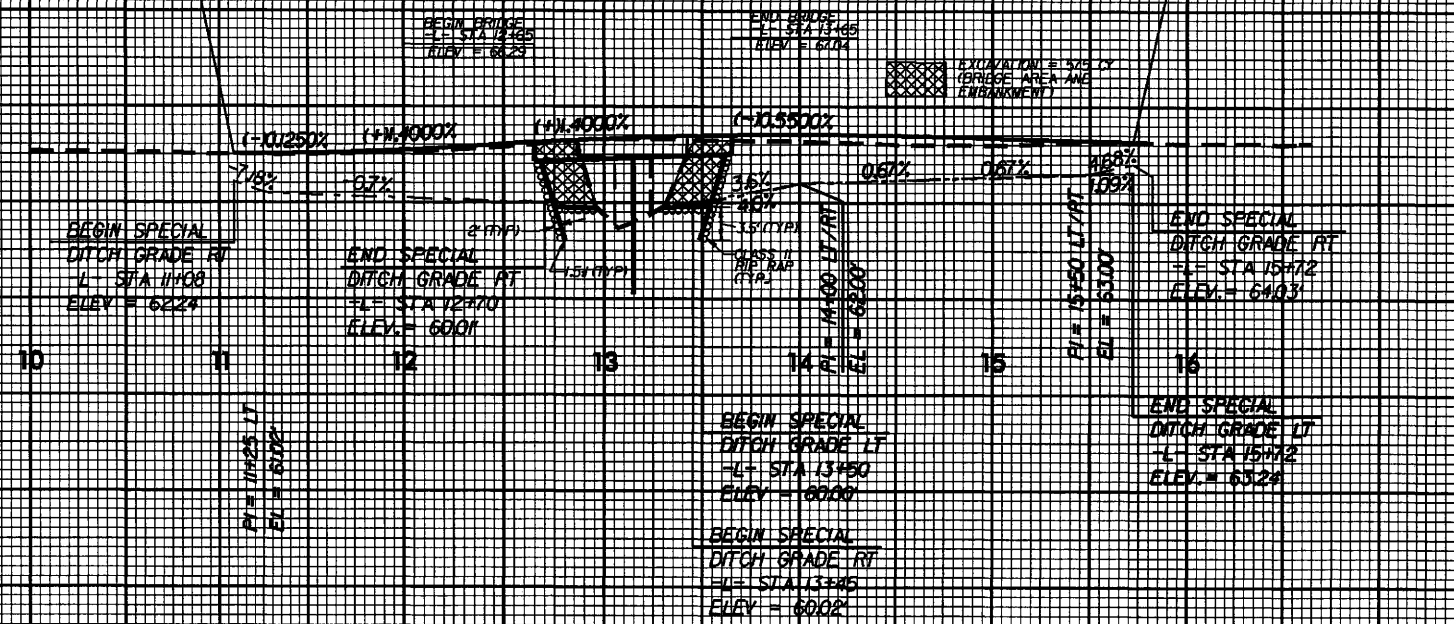
SITE 1

BEGIN GRADE
 L- STA. 11+08.00
 EL = 65.10'

PI = 11+7200
 EL = 65.02
 VC = 182
 K = 20

PI = 13+8200
 EL = 67.24
 VC = 224
 K = 15

END GRADE
 L- STA. 15+72.00
 EL = 66.33'



SEE SHEET 4 FOR L- DESIGN

5/14/99

30-MAR-2009 14:42
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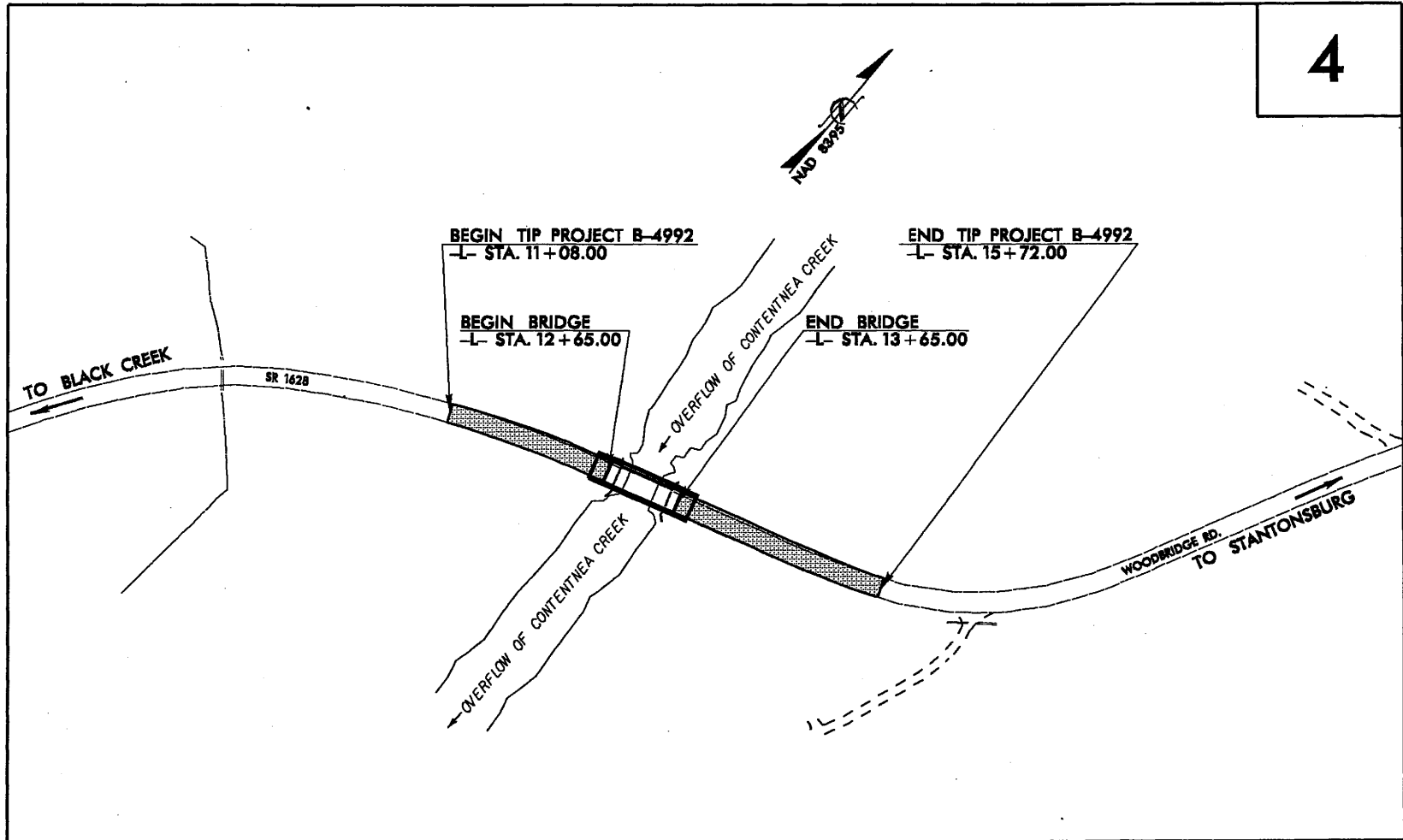
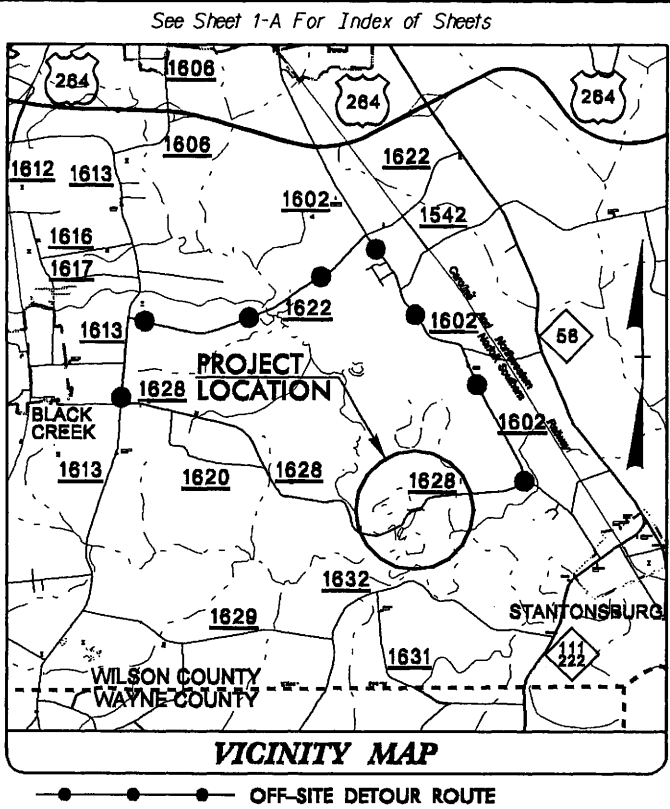
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4992	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
41537.1.1	BRSTP-1628(2)	PE	
41537.2.1	BRSTP-1628(2)	RW, UTIL.	

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

WILSON COUNTY

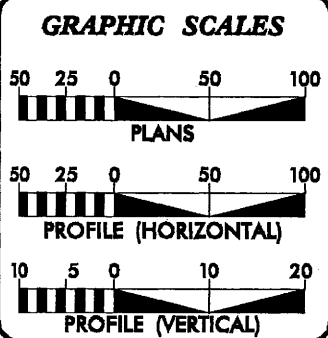
LOCATION: BRIDGE NO.1 ON SR 1628 (WOODBIDGE ROAD)
OVER THE OVERFLOW CHANNEL OF CONTENTNEA CREEK

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



PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

METHOD OF CLEARING III
THE PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES



DESIGN DATA

ADT 2003 =	500
ADT 2030 =	800
DHV =	10 %
D =	60 %
T =	3 % *
V =	50 MPH
* TTST=1%	DUAL=2%
FUNC. CLASS =	LOCAL

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-4992	=	0.069 MI
LENGTH STRUCTURE TIP PROJECT B-4992	=	0.019 MI
TOTAL LENGTH TIP PROJECT B-4992	=	0.088 MI

Prepared In the Office of:
DIVISION OF HIGHWAYS
1800 Birch Ridge Dr., Raleigh NC, 27610

2006 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
NOVEMBER 17, 2008

LETTING DATE:
NOVEMBER 17, 2009

JAMES A. SPEER, PE
PROJECT ENGINEER

NYA K. BOAYUE, PE
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

SIGNATURE: P.E.

CONTRACT: C202237
 TIP PROJECT: B-4992
 04-FEB-2009 07:00
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 \$\$\$USERNAME\$\$\$

3/15/06

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	-----
Proposed Wetland Boundary	-----
Existing Endangered Animal Boundary	-----
Existing Endangered Plant Boundary	-----

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	-----
Buffer Zone 1	-----
Buffer Zone 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	-----
Proposed Temporary Construction Easement	-----
Proposed Temporary Drainage Easement	-----
Proposed Permanent Drainage Easement	-----
Proposed Permanent Utility Easement	-----
Proposed Temporary Utility Easement	-----
Proposed Permanent Easement with Iron Pin and Cap Marker	-----

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	-----
Proposed Slope Stakes Fill	-----
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.

6/2/09

PROJECT REFERENCE NO.	SHEET NO.
B-4992	1-C
Location and Surveys	

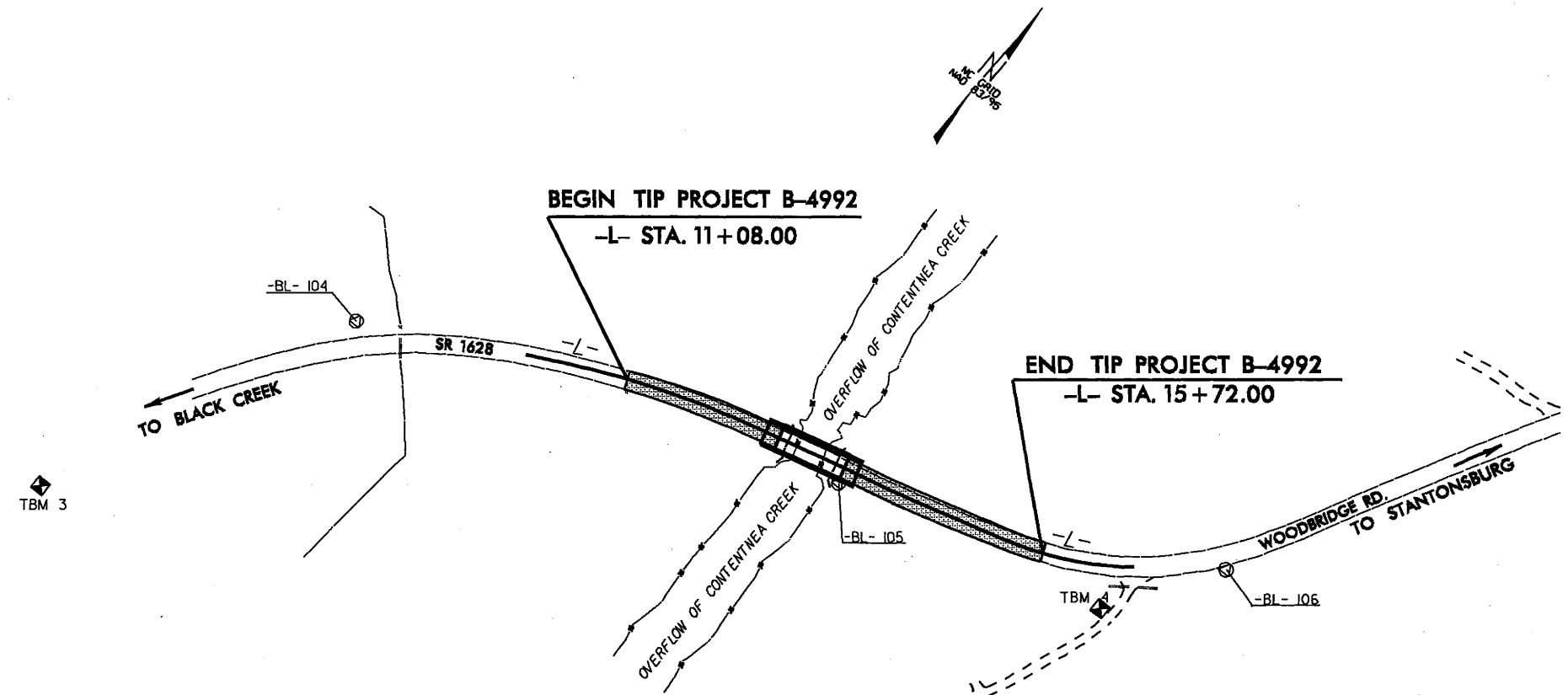
SURVEY CONTROL SHEET B4992

BASELINE DATA

BL	POINT	DESC.	NORTH	EAST	ELEVATION	L. STATION	OFFSET
2		GPS "B4682-2"	678408.4170	2336239.9660	85.92	OUTSIDE PROJECT LIMITS	
101		-BL- 101	678602.5980	2336836.7510	67.44	OUTSIDE PROJECT LIMITS	
102		-BL- 102	678902.1004	2337471.0775	69.11	OUTSIDE PROJECT LIMITS	
103		-BL- 103	679129.9980	2337824.8550	66.25	OUTSIDE PROJECT LIMITS	
104		-BL- 104	679679.4820	2338108.9110	64.49	OUTSIDE PROJECT LIMITS	
105		-BL- 105	679860.8930	2338602.5040	65.61	13+52.92	16.92 RT
106		-BL- 106	680037.1730	2338964.6750	66.59	OUTSIDE PROJECT LIMITS	
107		-BL- 107	680520.1080	2339224.9460	66.64	OUTSIDE PROJECT LIMITS	
108		-BL- 108	680580.9120	2339648.0570	66.65	OUTSIDE PROJECT LIMITS	

BENCHMARK DATA

802	ELEVATION = 84.28
N 678472	E 2336310
L STATION 10+00	
S 56° 37' 17.2" W	DIST 2342.37
TBM 1	RAILROAD SPIKE IN BASE OF 30" PINE
834	ELEVATION = 69.71
N 678836	E 2337207
L STATION 10+00	
S 48° 51' 52.6" W	DIST 1406.87
TBM 2	RAILROAD SPIKE IN BASE OF 36" PIN OAK
1251	ELEVATION = 68.58
N 679340	E 2337959
L STATION 10+00	
S 36° 05' 47.5" W	DIST 521.64
TBM 3	RAILROAD SPIKE IN BASE OF 36" PIN OAK
586	ELEVATION = 67.65
N 679926	E 2338890
L STATION 16+35 45 RIGHT	
TBM 4	RAILROAD SPIKE IN BASE OF 30" TWIN PINE
1677	ELEVATION = 65.96
N 680615	E 2339446
L STATION 16+65	
N 41° 13' 12.5" E	DIST 844.02
TBM 5	RAILROAD SPIKE IN BASE OF 24" GUM



DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "GPS "B4682-2""

WITH NAD 1983/95 STATE PLANE GRID COORDINATES OF NORTHING: 678408.417(ft) EASTING: 2336239.966(ft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99989348

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "GPS "B4682-2"" TO -L- STATION 11+08.00 IS N 56°38'08.8" E 2543.06'

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

NOTES:

- THE CONTROL DATA FOR THIS PROJECT CAN BE FOUND ELECTRONICALLY BY SELECTING PROJECT CONTROL DATA AT:
[HTTP://WWW.NCDOT.ORG/DOH/PRECONSTRUCT/HIGHWAY/LOCATION/PROJECT/](http://www.ncdot.org/doh/preconstruct/highway/location/project/)
THE FILES TO BE FOUND ARE AS FOLLOWS:
B4992_LS_CONTROL_080118.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)

REVISED 05/19/2008
REVISED 08/02/2008

NOTE: DRAWING NOT TO SCALE

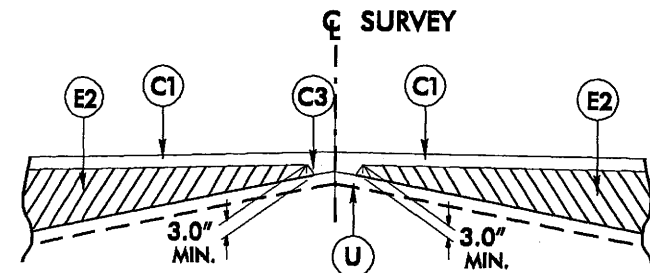
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10/26/98

PAVEMENT SCHEDULE

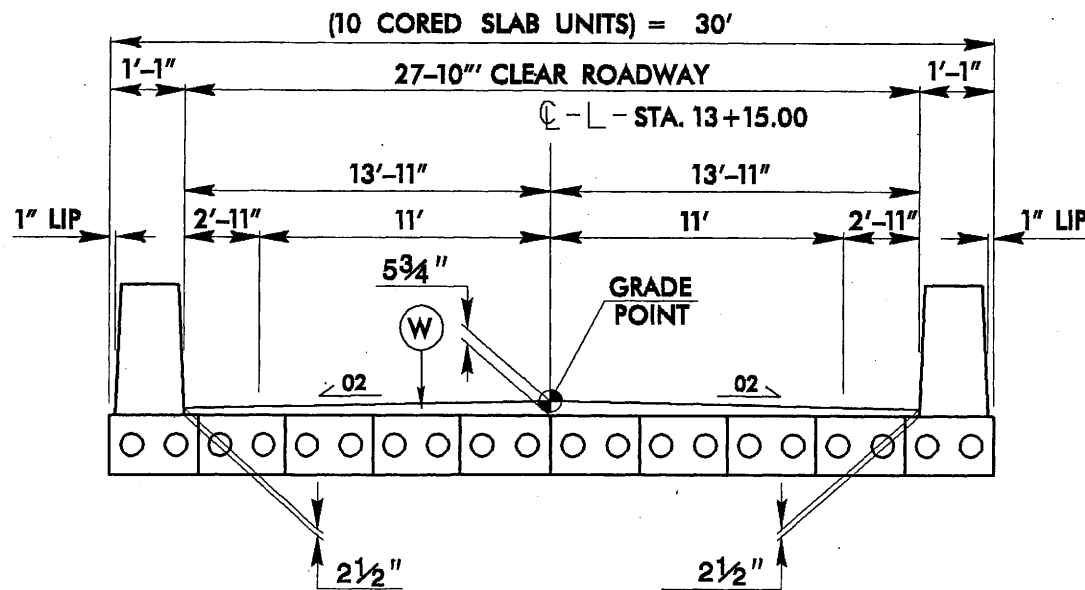
C1	PROP. APPROX. 1 1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.
C2	PROP. APPROX. 2 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
C3	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD. PER 1" DEPTH TO BE IN LAYERS NOT TO EXCEED 1.5" IN DEPTH
E1	PROP. APPROX. 4.0" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E2	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5 1/2" IN DEPTH.
U	EXISTING PAVEMENT.
T	EARTH MATERIAL.
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE DETAIL 1)

NOTE: ALL SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.



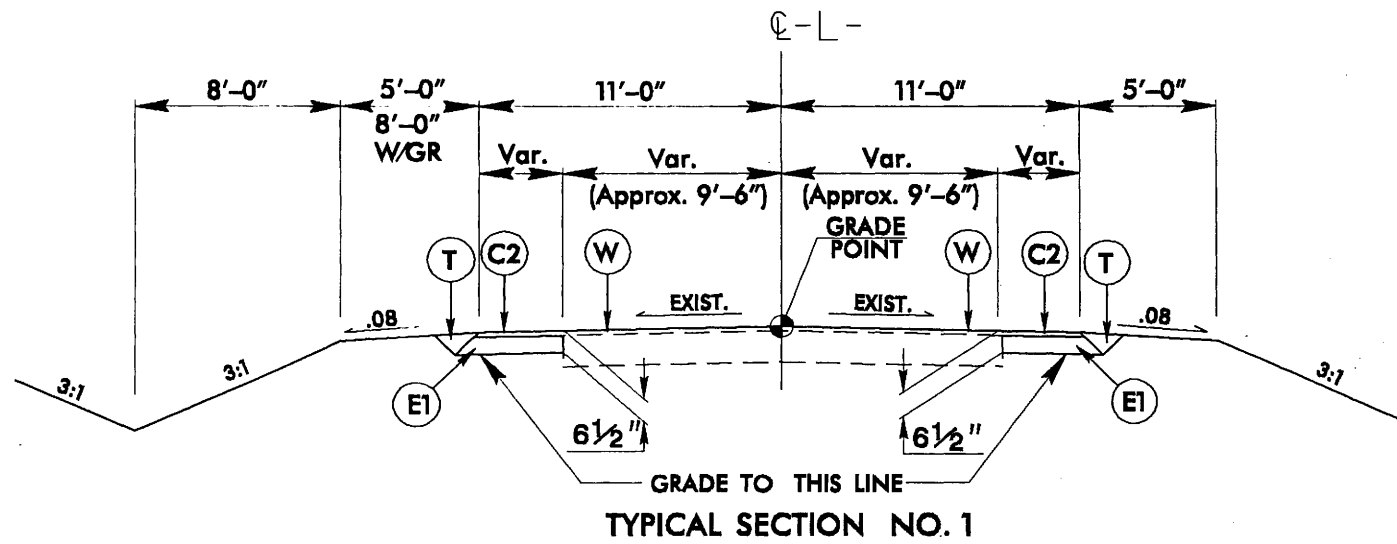
Detail Showing Method of Wedging

DETAIL 1



TYPICAL SECTION ON STRUCTURE

BEGIN BRIDGE -L- STA. 12+65.00 TO END BRIDGE -L- STA. 13+65.00

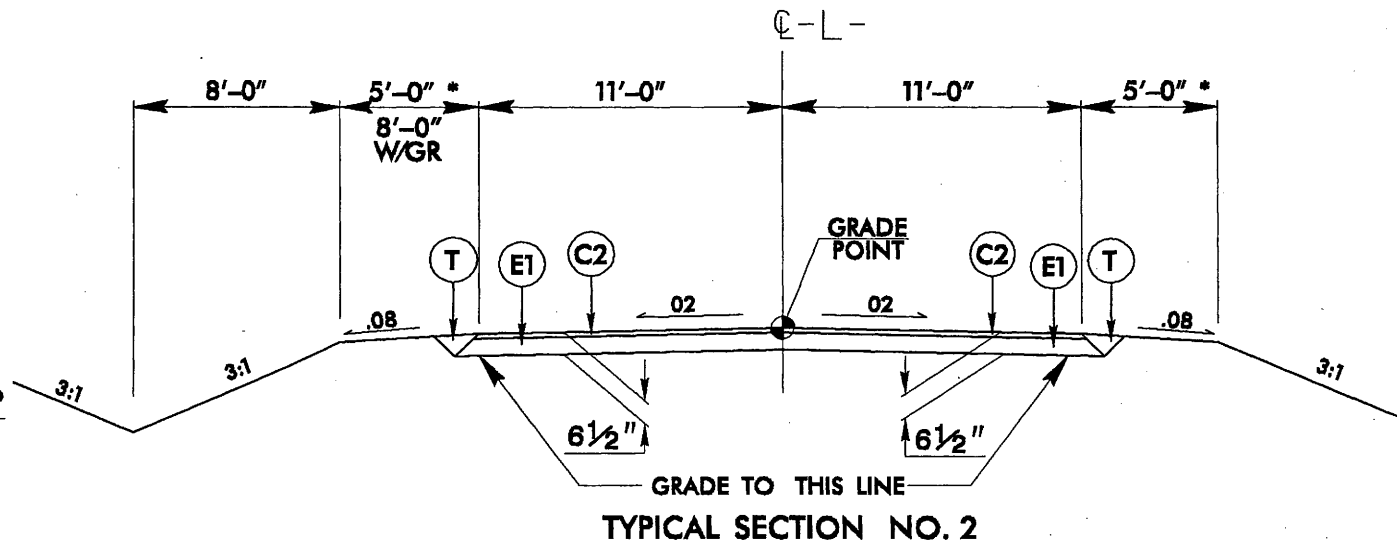


TYPICAL SECTION NO. 1

PROJECT REFERENCE NO. B-4992	SHEET NO. 2
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

USE TYPICAL SECTION NO. 1

-L- STA. 11+08.00 to -L- STA. 12+25.00
-L- STA. 14+00.00 to -L- STA. 15+72.00



TYPICAL SECTION NO. 2

USE TYPICAL SECTION NO. 2

-L- STA. 12+25.00 to BEG. BRIDGE -L- STA. 12+65.00
END BRIDGE -L- STA. 13+65.00 to -L- STA. 14+00.00

* INSTALL SHOULDER BERM GUTTER AS FOLLOWS:
STA. 12+37.00 TO STA. 12+54.00 LT
STA. 12+37.00 TO STA. 12+54.00 RT
SEE ROADWAY STD. DRWG. No. 846.03

04-FEB-2009 07:00
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5/14/99

BRIDGE HYDRAULIC DATA

DESIGN DISCHARGE	= 7800	CFS
DESIGN FREQUENCY	= 25	YRS
DESIGN HW ELEVATION	= 66.2	FT
BASE DISCHARGE	= 11000	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 67.4	FT
OVERTOPPING DISCHARGE	= <5900	CFS
OVERTOPPING FREQUENCY	= <10	YRS
OVERTOPPING ELEVATION	= 65J	FT
NORMAL WATER SURFACE	= NA	FT
ELEVATION		
DATE OF SURVEY	= 12/06/07	



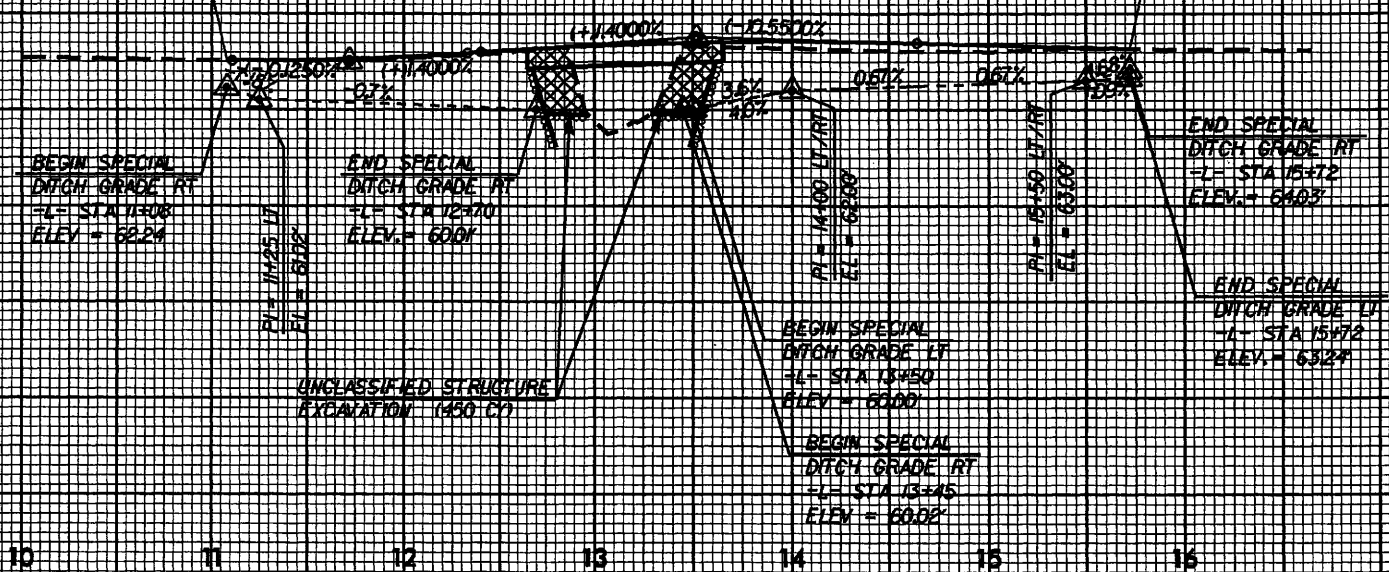
BEGIN GRADE
-L- STA. 11+08.00
EL = 65.10'

PI = 11+72.00
EL = 65.02'
VC = 122'
K = 80

CL STA 13+15 -L-
2 @ 50'
OAL = 100'
21" CORED SLAB
CL ELEV = 66.78'
90° SKEW

PI = 13+52.00
EL = 67.54'
VC = 224'
K = 15

END GRADE
-L- STA. 15+72.00
EL = 66.33'



DITCH LEGEND

LEFT DITCH	-----
RIGHT DITCH	-----

SEE SHEET 4 FOR -L- DESIGN

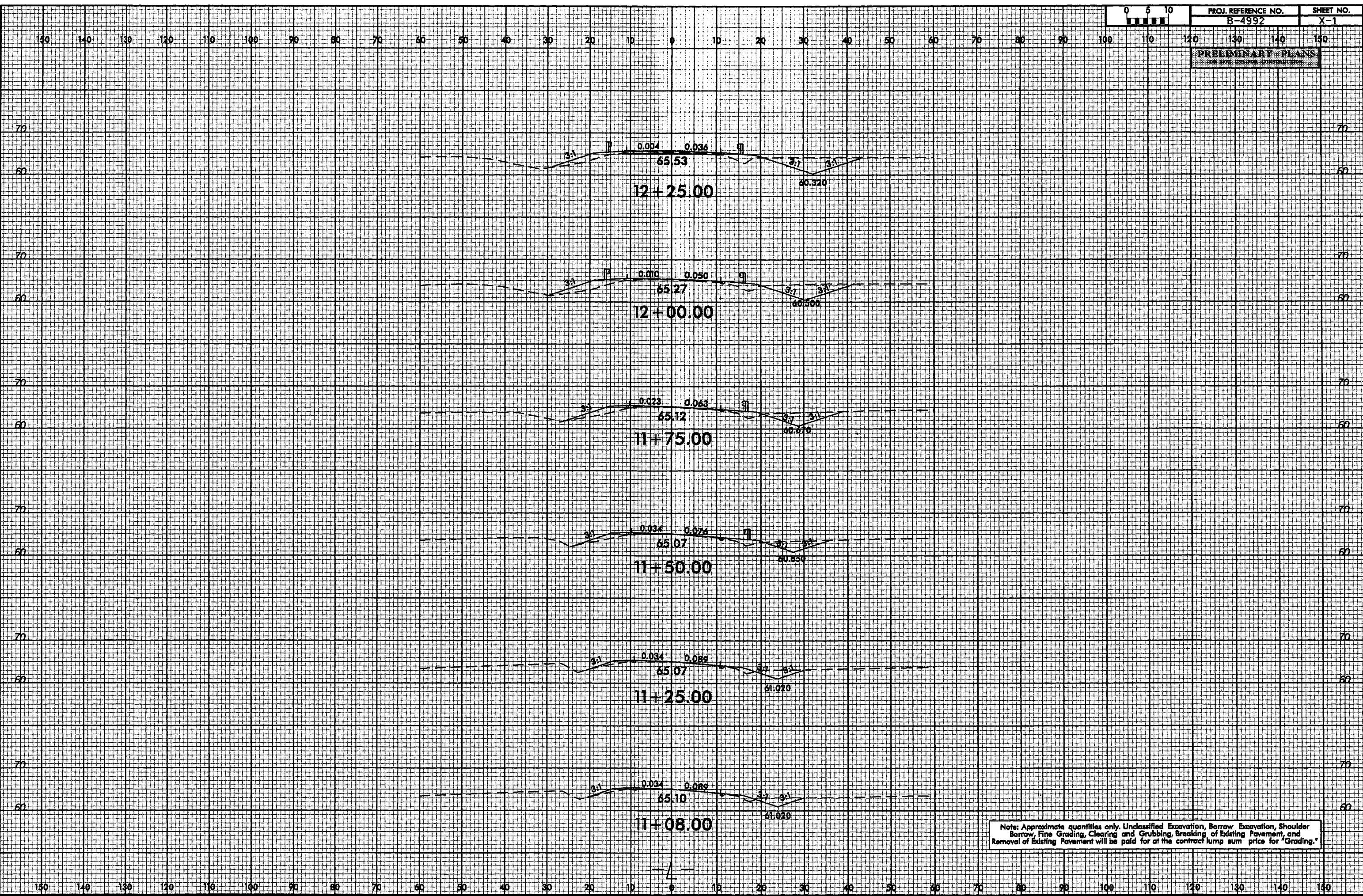
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8/23/99



PROJ. REFERENCE NO. B-4992	SHEET NO. X-1
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PRELIMINARY PLANS
NO MORE USE FOR CONSTRUCTION



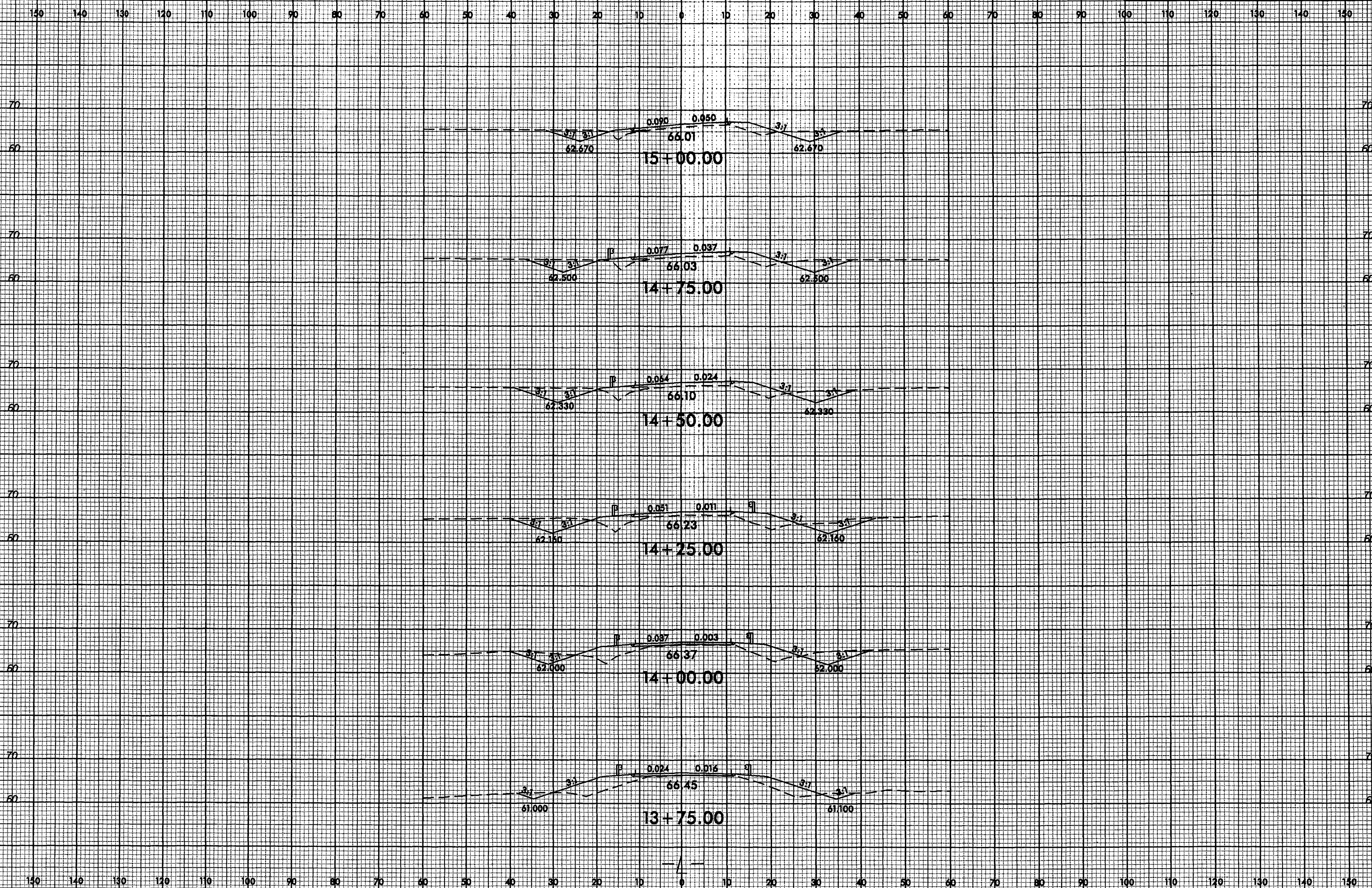
Note: Approximate quantities only. Unclassified Excavation, Borrow Excavation, Shoulder Borrow, Fine Grading, Clearing and Grubbing, Breaking of Existing Pavement, and Removal of Existing Pavement will be paid for at the contract lump sum price for "Grading."

04-FEB-2009 07:00
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PROJ. REFERENCE NO. B-4992 SHEET NO. X-3



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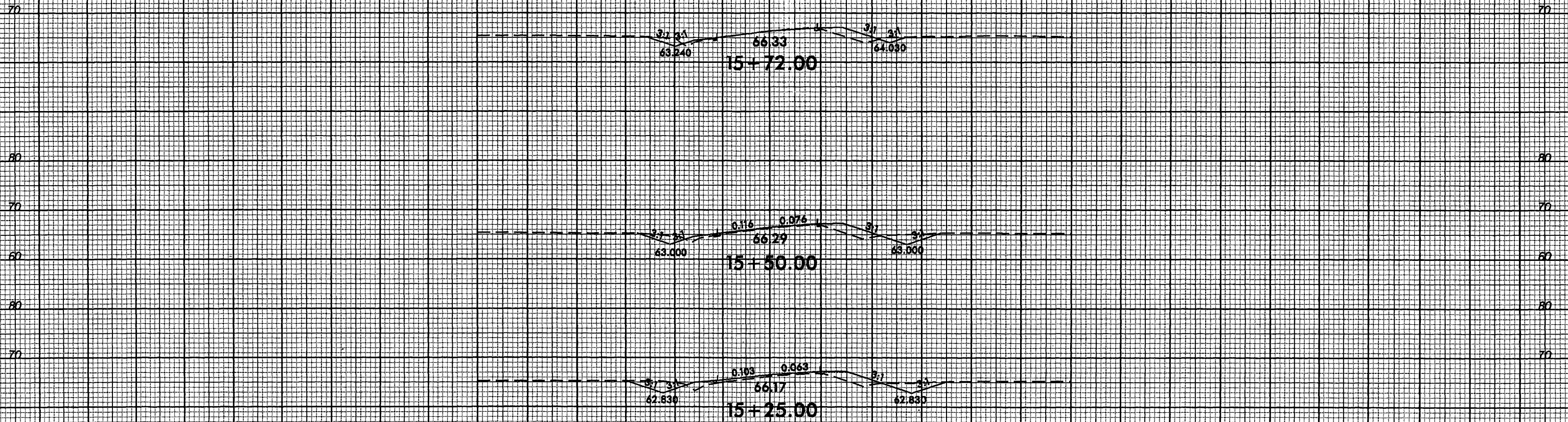
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PROJ. REFERENCE NO.
B-4992

SHEET NO.
X-4

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150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

04-FEB-2009 01:00
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USER:RCH