



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BEVERLY EAVES PERDUE
GOVERNOR

EUGENE A. CONTI, JR.
SECRETARY

June 12, 2009

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

Mr. Stephen Lane
N. C. Dept. of Env. and Natural Resources
Division of Coastal Management
400 Commerce Avenue
Morehead City, NC 28557

Dear Sirs:

Subject: **Application for Nationwide Permits 23 & 33, & CAMA Major Development Permit Request** for the Replacement of Bridge No. 64 over Pungo Creek on NC 99 in Beaufort County; TIP Project B-3809; Federal Aid Project No. BRSTP-99(2); State Project No.8.1151101; Debit \$400.00 from WBS 33264.1.1.

Please find enclosed PCN, permit drawings, roadway plans, landowner receipts, a copy of the state stormwater permit exclusion, EEP acceptance letter, NCDOT debit ledger page, and CAMA MP forms for the above referenced project proposed by the North Carolina Department of Transportation (NCDOT). A Categorical Exclusion (CE) was completed for this project on October 11, 2007, and distributed shortly thereafter. Additional copies are available upon request. The NCDOT proposes to replace existing Bridge No. 64 over Pungo Creek on NC 99 in Beaufort County. The project involves replacement of the existing functionally obsolete and structurally deficient 681-foot bridge with a new 710-foot bridge. The new bridge will feature two 12-foot lanes with a 4.75-foot offsets. The south approach will be approximately 510 feet long and the north approach will be approximately 1,230 feet long. Proposed permanent impacts are 0.01 acre to coastal wetland impacts for fill and 0.15 acre of fill in surface waters. Traffic will be detoured off-site during construction. The let date for this project is February 16, 2010 and the review date is January 5, 2010.

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 NCDOT requests that these activities be authorized by Nationwide Permit 23. We are also requesting the issuance of a Nationwide Permit 33 for the temporary fill due to the work pad and work bridge. (72 CFR; 11092-11198, March 12, 2007).

Section 401 Permit: We anticipate 401 General Certification numbers 3701 and 3688 will apply to this project. The NCDOT is requesting written concurrence from the North Carolina Department of Environmental and Natural Resources, Division of Water Quality. Therefore, in accordance with 15A

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

TELEPHONE: 919-431-2000

FAX: 919-431-2001

WEBSITE: WWW.NCDOT.ORG

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

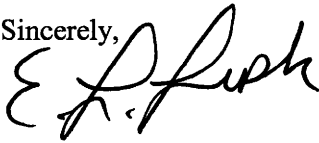
NCAC 2H, Section .0500(a), we are providing five copies of this application to the NCDWQ for their approval.

Tar-Pamlico Riparian Buffer: NCDOT requests that the NC Division of Water Quality review this application and issue a written approval for a Tar-Pamlico Riparian Buffer Authorization.

CAMA Permit: NCDOT requests that the proposed work be authorized under a Coastal Area Management Act Major Development Permit. The landowner receipts are attached. NCDOT has received a stormwater permit exclusion for this project. Authorization to debit the \$400 Permit Application Fee from WBS Element 33264.1.1 is hereby given.

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

If you have any questions or need additional information, please contact Chris Underwood at (919) 431-6662.

Sincerely,

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

w/attachment

Mr. Brian Wrenn, NCDWQ (5 copies)
Mr. Steve Sollod, NCDCM

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
Mr. Vince Rhea, P.E., Planning Engineer
Mr. Mark Staley, Roadside Environmental
Mr. Greg Perfetti, P.E., Structure Design
Mr. Victor Barbour, P.E., Project Services Unit
Mr. C. E. Lassiter, P.E., Division 2 Engineer
Mr. Jay Johnson, Division 2 Environmental Officer
Ms. Beth Harmon, EEP
Mr. Todd Jones, NCDOT External Audit Branch



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:	☒ Section 404 Permit ☐ Section 10 Permit
1b. Specify Nationwide Permit (NWP) number: 12 23 33 or General Permit (GP) number:	
1c. Has the NWP or GP number been verified by the Corps?	☐ Yes ☒ No
1d. Type(s) of approval sought from the DWQ (check all that apply): ☒ 401 Water Quality Certification – Regular ☐ Non-404 Jurisdictional General Permit ☐ 401 Water Quality Certification – Express ☒ 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: ☐ Yes ☒ No
For the record only for Corps Permit: ☐ Yes ☒ 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.	☒ Yes ☐ No
1g. Is the project located in any of NC's twenty coastal counties. If yes, answer 1h below.	☒ Yes ☐ No
1h. Is the project located within a NC DCM Area of Environmental Concern (AEC)?	☒ Yes ☐ No

2. Project Information

2a. Name of project:	Replacement of Bridge 64 over Pungo Creek on NC 99
2b. County:	Beaufort
2c. Nearest municipality / town:	Bellhaven
2d. Subdivision name:	<i>not applicable</i>
2e. NCDOT only, T.I.P. or state project no:	B-3809

3. Owner Information

3a. Name(s) on Recorded Deed:	<i>not applicable</i>
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) 431-6662
3g. Fax no.:	(919) 431-2002
3h. Email address:	csunderwood@ncdot.gov

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

B. Project Information and Prior Project History	
1. Property Identification	
1a. Property identification no. (tax PIN or parcel ID):	<i>not applicable</i>
1b. Site coordinates (in decimal degrees):	Latitude: 35.4987 (DD.DDDDDD) Longitude: - 76.6715 (-DD.DDDDDD)
1c. Property size:	3 acres
2. Surface Waters	
2a. Name of nearest body of water (stream, river, etc.) to proposed project:	Pungo Creek
2b. Water Quality Classification of nearest receiving water:	SC NSW
2c. River basin:	Tar Pamlico
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: Causeway and canals; there are residences and a business in the area.	
3b. List the total estimated acreage of all existing wetlands on the property: 0.5 acre	
3c. List the total estimated linear feet of all existing streams (intermittent and perennial) on the property: 484 feet	
3d. Explain the purpose of the proposed project: To replace a structurally deficient and a functionally obsolete bridge.	
3e. Describe the overall project in detail, including the type of equipment to be used: The project involves replacing a 681-foot bridge with a 710-foot bridge on the existing alignment with an off-site detour. Standard road building equipment, such as trucks, dozers, and cranes will be used. Utility lines will be relocated via directional bore.	
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: requesting JD at permitting	☐ Yes ☒ No ☐ Unknown
4b. If the Corps made the jurisdictional determination, what type of determination was made?	☐ Preliminary ☐ Final
4c. If yes, who delineated the jurisdictional areas? Name (if known):	Agency/Consultant Company: Other:
4d. If yes, list the dates of the Corps jurisdictional determinations or State determinations and attach documentation.	
5. Project History	
5a. Have permits or certifications been requested or obtained for this project (including all prior phases) in the past?	☐ Yes ☒ No ☐ Unknown
5b. If yes, explain in detail according to "help file" instructions.	
6. Future Project Plans	
6a. Is this a phased project?	☐ Yes ☒ 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):						
☒ Wetlands		☒ Streams - tributaries		☒ Buffers		
☐ Open Waters		☐ 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 ☒ P ☐ T	fill	coastal	☐ Yes ☒ No	☒ Corps ☐ DWQ	0.01	
Site 2 ☐ P ☐ T			☐ Yes ☐ No	☐ Corps ☐ DWQ		
Site 3 ☒ P ☐ T	fill	coastal	☐ Yes ☒ No	☒ Corps ☐ DWQ	<0.01	
Site 4 ☒ P ☐ T	fill	coastal	☐ Yes ☒ No	☒ Corps ☐ DWQ	<0.01	
Site 5 ☐ P ☐ T			☐ Yes ☐ No	☐ Corps ☐ DWQ		
Site 6 ☐ P ☐ T			☐ Yes ☐ No	☐ Corps ☐ DWQ		
2g. Total wetland impacts					0.01 Permanent	
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 ☒ P ☐ T	Fill	Pungo Cr./canal	☒ PER ☐ INT	☒ Corps ☐ DWQ	725	472
Site 2 ☒ P ☐ T	Fill	Pungo Cr./canal	☒ PER ☐ INT	☒ Corps ☐ DWQ	725	54
Site 3 ☐ P ☐ T			☐ PER ☐ INT	☐ Corps ☐ DWQ		
Site 4 ☐ P ☐ T			☐ PER ☐ INT	☐ Corps ☐ DWQ		
Site 5 ☐ P ☐ T			☐ PER ☐ INT	☐ Corps ☐ DWQ		
Site 6 ☐ P ☐ T			☐ PER ☐ INT	☐ Corps ☐ DWQ		
3h. Total stream and tributary impacts						526 Perm X Temp
3i. Comments: There will be < 0.01 acre of temporary impacts surface water for the workbridge.						

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 ☐ P ☐ T				
O2 ☐ P ☐ T				
O3 ☐ P ☐ T				
O4 ☐ P ☐ 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	Excavat ed	Flooded	Filled	Excavated	Flooded
P1								
P2								
5f. Total								

5g. Comments:

5h. Is a dam high hazard permit required?	☐ Yes ☐ 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?			☐ Neuse ☐ Catawba			☒ Tar-Pamlico ☐ Randleman		☐ 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 ☒ P ☐ T	roadway fill	Pungo Cr./canal	☒ Yes ☐ No	2,823	1,169				
B2 ☒ P ☐ T	roadway fill	Pungo Cr./canal	☒ Yes ☐ No	244					
B3 ☒ P ☐ T	roadway fill	Pungo Cr./canal	☒ Yes ☐ No	2,996					
6h. Total buffer impacts				6,063	1,169				
6i. Comments:									

D. Impact Justification and Mitigation		
1. Avoidance and Minimization		
1a. Specifically describe measures taken to avoid or minimize the proposed impacts in designing project. The proposed bridge is 29 feet longer than the existing bridge; the proposed bridge will be at approximately the same grade as the existing structure; 3:1 fill slopes will be used where practicable.		
1b. Specifically describe measures taken to avoid or minimize the proposed impacts through construction techniques. Top-down construction will be used. The causeway slopes were pulled in and armored to minimize the amount of fill in the canals. There is an in-water construction moratorium from February 15 to June 15 for anadromous fish. Guidelines For Avoiding Impacts To The West Indian Manatee: Precautionary Measures for Construction Activities in North Carolina Waters will be adhered during project construction.		
2. Compensatory Mitigation for Impacts to Waters of the U.S. or Waters of the State		
2a. Does the project require Compensatory Mitigation for impacts to Waters of the U.S. or Waters of the State?	☒ Yes ☐ No	
2b. If yes, mitigation is required by (check all that apply):	☐ DWQ ☒ Corps	
2c. If yes, which mitigation option will be used for this project?	☐ Mitigation bank ☒ Payment to in-lieu fee program ☒ 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.	☒ Yes	
4b. Stream mitigation requested:	linear feet	
4c. If using stream mitigation, stream temperature:	☐ warm ☐ cool ☐ cold	
4d. Buffer mitigation requested (DWQ only):	19,943 square feet	
4e. Riparian wetland mitigation requested:	acres	
4f. Non-riparian wetland mitigation requested:	acres	
4g. Coastal (tidal) wetland mitigation requested:	0.01 acres	
4h. Comments: Coastal wetlands are being mitigated through NCDOT assets and buffer by EEP.		
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. See attached debit ledger for Campbell Creek Mitigation Site.		

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	roadway fill	6,063	3 (2 for Catawba)	18,189
Zone 2	roadway fill	1,169	1.5	1,754
	6f. Total buffer mitigation required:			19,943
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). Buffer mitigation to be provided by EEP, see attached acceptance letter.				
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?	☒ Yes ☐ No
1b. If yes, then is a diffuse flow plan included? If no, explain why. Comments: see attached permit drawings.	☒ Yes ☐ 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?	☒ Yes ☐ 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?	☐ Certified Local Government ☐ DWQ Stormwater Program ☐ 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):	☐ Phase II ☐ NSW ☐ USMP ☐ Water Supply Watershed ☐ Other:
3c. Has the approved Stormwater Management Plan with proof of approval been attached?	☐ Yes ☐ No
4. DWQ Stormwater Program Review	
4a. Which of the following state-implemented stormwater management programs apply (check all that apply):	☒ Coastal counties ☐ HQW ☐ ORW ☐ Session Law 2006-246 ☐ Other:
4b. Has the approved Stormwater Management Plan with proof of approval been attached?	☒ Yes ☐ No
5. DWQ 401 Unit Stormwater Review	
5a. Does the Stormwater Management Plan meet the appropriate requirements?	☒ Yes ☐ No
5b. Have all of the 401 Unit submittal requirements been met?	☒ Yes ☐ 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?	☒ Yes ☐ 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)?	☒ Yes ☐ 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:	☒ Yes ☐ 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)?	☐ Yes ☒ No
2b. Is this an after-the-fact permit application?	☐ Yes ☒ 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?	☐ Yes ☒ 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?	☒ Yes	☐ No
5b. Have you checked with the USFWS concerning Endangered Species Act impacts?	☒ Yes	☐ No
5c. If yes, indicate the USFWS Field Office you have contacted.	☒ Raleigh ☐ Asheville	
5d. What data sources did you use to determine whether your site would impact Endangered Species or Designated Critical Habitat? US Fish & Wildlife Service (USFWS), NC Natural Heritage (NCNHP), & NCDOT biologists. All species have a biological conclusion of No Effect.		
6. Essential Fish Habitat (Corps Requirement)		
6a. Will this project occur in or near an area designated as essential fish habitat?	☒ Yes	☐ No
6b. What data sources did you use to determine whether your site would impact Essential Fish Habitat? NCDOT phone call with Ron Sechler of NMFS on 5/25/01.		
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)?	☐ Yes	☒ No
7b. What data sources did you use to determine whether your site would impact historic or archeological resources? NEPA Documentation		
8. Flood Zone Designation (Corps Requirement)		
8a. Will this project occur in a FEMA-designated 100-year floodplain?	☐ Yes	☒ No
8b. If yes, explain how project meets FEMA requirements:		
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 (Agent's signature is valid only if an authorization letter from the applicant is provided.)	<u>6-12-09</u> Date

APPLICATION for Major Development Permit

(last revised 12/27/06)



North Carolina DIVISION OF COASTAL MANAGEMENT

1. Primary Applicant/ Landowner Information

Business Name North Carolina Department Of Transportation		Project Name (if applicable) B-3809	
Applicant 1: First Name Gregory	MI J.	Last Name Thorpe	
Applicant 2: First Name	MI	Last Name	
<i>If additional applicants, please attach an additional page(s) with names listed.</i>			
Mailing Address 1598 Mail Service Center		PO Box	City Raleigh
		State NC	
ZIP 27699	Country USA	Phone No. 919 - 431 - 6662 ext.	FAX No. 919 - 431 - 2002
Street Address (if different from above)		City	State
			ZIP -
Email			

2. Agent/Contractor Information

Business Name			
Agent/ Contractor 1: First Name	MI	Last Name	
Agent/ Contractor 2: First Name	MI	Last Name	
Mailing Address		PO Box	City
		State	
ZIP		Phone No. 1 - - ext.	Phone No. 2 - - ext.
FAX No.	Contractor #		
Street Address (if different from above)		City	State
			ZIP -
Email			

<Form continues on back>

3. Project Location

County (can be multiple) Beaufort	Street Address		State Rd. # NC 99	
Subdivision Name		City	State	Zip -
Phone No. - - ext.		Lot No.(s) (if many, attach additional page with list) N/A, , ,		
a. In which NC river basin is the project located? Tar-Pamlico		b. Name of body of water nearest to proposed project Pungo Creek		
c. Is the water body identified in (b) above, natural or manmade? ☒ Natural ☐ Manmade ☐ Unknown		d. Name the closest major water body to the proposed project site. Pungo Creek		
e. Is proposed work within city limits or planning jurisdiction? ☐ Yes ☒ No		f. If applicable, list the planning jurisdiction or city limit the proposed work falls within.		

4. Site Description

a. Total length of shoreline on the tract (ft.) Two-lane travelway within exist. 60' right-of-way		b. Size of entire tract (sq.ft.) 104,860.8	
c. Size of individual lot(s) N/A, (If many lot sizes, please attach additional page with a list)		d. Approximate elevation of tract above NHW (normal high water) or NWL (normal water level) 15.6' above NWL(0.9') ☐ NHW or ☒ NWL	
e. Vegetation on tract Roadside grasses, loblolly pine, red maple, coastal marsh vegetation			
f. Man-made features and uses now on tract NC 99, paved two-lane road			
g. Identify and describe the existing land uses <u>adjacent</u> to the proposed project site. Residential, commercial, & forest			
h. How does local government zone the tract? Residential & Commercial		i. Is the proposed project consistent with the applicable zoning? (Attach zoning compliance certificate, if applicable) ☒ Yes ☐ No ☐ NA	
j. Is the proposed activity part of an urban waterfront redevelopment proposal?		☐ Yes ☒ No	
k. Has a professional archaeological assessment been done for the tract? If yes, attach a copy. If yes, by whom?		☒ Yes ☐ No ☐ NA NCDOT Archaeology	
l. Is the proposed project located in a National Registered Historic District or does it involve a National Register listed or eligible property?		☐ Yes ☒ No ☐ NA	

<Form continues on next page>

m. (i) Are there wetlands on the site?	☒ Yes ☐ No
(ii) Are there coastal wetlands on the site?	☒ Yes ☐ No
(iii) If yes to either (i) or (ii) above, has a delineation been conducted? (Attach documentation, if available)	☒ Yes ☐ No
n. Describe existing wastewater treatment facilities. N/A	
o. Describe existing drinking water supply source. N/A	
p. Describe existing storm water management or treatment systems. None	

5. Activities and Impacts

a. Will the project be for commercial, public, or private use?	☐ Commercial ☒ Public/Government ☐ Private/Community
b. Give a brief description of purpose, use, and daily operations of the project when complete. To maintain and improve public transportation	
c. Describe the proposed construction methodology, types of construction equipment to be used during construction, the number of each type of equipment and where it is to be stored. Heavy highway construction equipment	
d. List all development activities you propose. Replace Bridge No. 64 on NC 99	
e. Are the proposed activities maintenance of an existing project, new work, or both?	Both
f. What is the approximate total disturbed land area resulting from the proposed project?	4.1 ☐ Sq.Ft or ☒ Acres
g. Will the proposed project encroach on any public easement, public accessway or other area that the public has established use of?	☒ Yes ☐ No ☐ NA
h. Describe location and type of existing and proposed discharges to waters of the state. The existing bridge discharges bridge drainage through the wheel guards directly into Pungo Creek. The proposed bridge drainage will be conveyed within the bridge shoulders to grated inlets near the beginning and end of the bridge. At the beginning of the bridge, the collected stormwater will discharge into a preformed scour hole on the east side of the alignment.	
i. Will wastewater or stormwater be discharged into a wetland?	☐ Yes ☒ No ☐ NA
If yes, will this discharged water be of the same salinity as the receiving water?	☐ Yes ☐ No ☐ NA
j. Is there any mitigation proposed? If yes, attach a mitigation proposal.	☒ Yes ☐ No ☐ NA

<Form continues on back>

6. Additional Information

In addition to this completed application form, (MP-1) the following items below, if applicable, must be submitted in order for the application package to be complete. Items (a) – (f) are always applicable to any major development application. Please consult the application instruction booklet on how to properly prepare the required items below.

- a. A project narrative.
- b. An accurate, dated work plat (including plan view and cross-sectional drawings) drawn to scale. Please give the present status of the proposed project. Is any portion already complete? If previously authorized work, clearly indicate on maps, plats, drawings to distinguish between work completed and proposed.
- c. A site or location map that is sufficiently detailed to guide agency personnel unfamiliar with the area to the site.
- d. A copy of the deed (with state application only) or other instrument under which the applicant claims title to the affected properties.
- e. The appropriate application fee. Check or money order made payable to DENR.
- f. A list of the names and complete addresses of the adjacent waterfront (riparian) landowners and signed return receipts as proof that such owners have received a copy of the application and plats by certified mail. Such landowners must be advised that they have 30 days in which to submit comments on the proposed project to the Division of Coastal Management.
- | | |
|--|-----------|
| Name See attached sheet in the permit drawings | Phone No. |
| Address | |
| Name | Phone No. |
| Address | |
| Name | Phone No. |
| Address | |
- g. A list of previous state or federal permits issued for work on the project tract. Include permit numbers, permittee, and issuing dates.
- State Stormwater Permit Exclusion SW7090210
- h. Signed consultant or agent authorization form, if applicable.
- i. Wetland delineation, if necessary.
- j. A signed AEC hazard notice for projects in oceanfront and inlet areas. (Must be signed by property owner)
- k. A statement of compliance with the N.C. Environmental Policy Act (N.C.G.S. 113A 1-10), if necessary. If the project involves expenditure of public funds or use of public lands, attach a statement documenting compliance with the North Carolina Environmental Policy Act.

7. Certification and Permission to Enter on Land

I understand that any permit issued in response to this application will allow only the development described in the application. The project will be subject to the conditions and restrictions contained in the permit.

I certify that I am authorized to grant, and do in fact grant permission to representatives of state and federal review agencies to enter on the aforementioned lands in connection with evaluating information related to this permit application and follow-up monitoring of the project.

I further certify that the information provided in this application is truthful to the best of my knowledge.

Date 6-12-09 Print Name E.L. Lusk

Signature E.L. Lusk

Please indicate application attachments pertaining to your proposed project.

- ☐ DCM MP-2 Excavation and Fill Information ☒ DCM MP-5 Bridges and Culverts
- ☐ DCM MP-3 Upland Development
- ☐ DCM MP-4 Structures Information

BRIDGES and CULVERTS

Attach this form to Joint Application for CAMA Major Permit, Form DCM MP-1. Be sure to complete all other sections of the Joint Application that relate to this proposed project. Please include all supplemental information.

1. BRIDGES☐ This section not applicable

- a. Is the proposed bridge:
☐ Commercial ☒ Public/Government ☐ Private/Community
- b. Water body to be crossed by bridge:
 Pungo Creek
- c. Type of bridge (construction material):
 21" Cored Slab
- d. Water depth at the proposed crossing at NLW or NWL:
 17'
- e. (i) Will proposed bridge replace an existing bridge? ☒ Yes ☐ No
 If yes,
 (ii) Length of existing bridge: 680.5'
 (iii) Width of existing bridge: 23.4'
 (iv) Navigation clearance underneath existing bridge: 13.0'
 (v) Will all, or a part of, the existing bridge be removed?
 (Explain) Yes, all of existing bridge to be removed
- f. (i) Will proposed bridge replace an existing culvert? ☐ Yes ☒ No
 If yes,
 (ii) Length of existing culvert: _____
 (iii) Width of existing culvert: _____
 (iv) Height of the top of the existing culvert above the NHW or NWL: _____
 (v) Will all, or a part of, the existing culvert be removed?
 (Explain)
- g. Length of proposed bridge: 720'
- h. Width of proposed bridge: 36'
- i. Will the proposed bridge affect existing water flow? ☐ Yes ☒ No
 If yes, explain:
- j. Will the proposed bridge affect navigation by reducing or increasing the existing navigable opening? ☒ Yes ☐ No
 If yes, explain: Increase opening
- k. Navigation clearance underneath proposed bridge: 15.9'
- l. Have you contacted the U.S. Coast Guard concerning their approval? ☒ Yes ☐ No
 If yes, explain: advanced approval received.
- m. Will the proposed bridge cross wetlands containing no navigable waters? ☐ Yes ☒ No
 If yes, explain:
- n. Height of proposed bridge above wetlands: _____

2. CULVERTS☒ This section not applicable

- a. Number of culverts proposed: _____
- b. Water body in which the culvert is to be placed:

< Form continues on back >

c. Type of culvert (construction material): _____

d. (i) Will proposed culvert replace an existing bridge? ☐ Yes ☐ No

If yes,

(ii) Length of existing bridge: _____

(iii) Width of existing bridge: _____

(iv) Navigation clearance underneath existing bridge: _____

(v) Will all, or a part of, the existing bridge be removed? (Explain) _____

e. (i) Will proposed culvert replace an existing culvert? ☐ Yes ☐ No

If yes,

(ii) Length of existing culvert(s): _____

(iii) Width of existing culvert(s): _____

(iv) Height of the top of the existing culvert above the NHW or NWL: _____

(v) Will all, or a part of, the existing culvert be removed? (Explain) _____

f. Length of proposed culvert: _____

g. Width of proposed culvert: _____

h. Height of the top of the proposed culvert above the NHW or NWL. _____

i. Depth of culvert to be buried below existing bottom contour. _____

j. Will the proposed culvert affect navigation by reducing or increasing the existing navigable opening? ☐ Yes ☐ No

If yes, explain: _____

k. Will the proposed culvert affect existing water flow? ☐ Yes ☐ No

If yes, explain: _____

3. EXCAVATION and FILL

☐ This section not applicable

a. (i) Will the placement of the proposed bridge or culvert require any excavation below the NHW or NWL? ☐ Yes ☒ No

If yes,

(ii) Avg. length of area to be excavated: _____

(iii) Avg. width of area to be excavated: _____

(iv) Avg. depth of area to be excavated: _____

(v) Amount of material to be excavated in cubic yards: _____

b. (i) Will the placement of the proposed bridge or culvert require any excavation within coastal wetlands/marsh (CW), submerged aquatic vegetation (SAV), shell bottom (SB), or other wetlands (WL)? If any boxes are checked, provide the number of square feet affected.

☐ CW _____ ☐ SAV _____ ☐ SB _____

☐ WL _____ ☒ None

(ii) Describe the purpose of the excavation in these areas: _____

c. (i) Will the placement of the proposed bridge or culvert require any high-ground excavation? ☒ Yes ☐ No

If yes,

(ii) Avg. length of area to be excavated: 32.5'

(iii) Avg. width of area to be excavated: 35.0'

(iv) Avg. depth of area to be excavated: 2.9'

(v) Amount of material to be excavated in cubic yards: 121.5+/-

d. If the placement of the bridge or culvert involves any excavation, please complete the following:

(i) Location of the spoil disposal area: To be used for roadway fill

(ii) Dimensions of the spoil disposal area: To be determined by the contractor

(iii) Do you claim title to the disposal area? ☐ Yes ☒ No (If no, attach a letter granting permission from the owner.)

(iv) Will the disposal area be available for future maintenance? ☐ Yes ☒ No

(v) Does the disposal area include any coastal wetlands/marsh (CW), submerged aquatic vegetation (SAVs), other wetlands (WL), or shell bottom (SB)?

☐ CW ☐ SAV ☐ WL ☐ SB ☐ None

If any boxes are checked, give dimensions if different from (ii) above.

(vi) Does the disposal area include any area below the NHW or NWL? ☐ Yes ☐ No

If yes, give dimensions if different from (ii) above.

e. (i) Will the placement of the proposed bridge or culvert result in any fill (other than excavated material described in Item d above) to be placed below NHW or NWL? ☒ Yes ☐ No

If yes,

(ii) Avg. length of area to be filled: 429.8'

(iii) Avg. width of area to be filled: 12.7'

(iv) Purpose of fill: Widening roadway approaches

f. (i) Will the placement of the proposed bridge or culvert result in any fill (other than excavated material described in Item d above) to be placed within coastal wetlands/marsh (CW), submerged aquatic vegetation (SAV), shell bottom (SB), or other wetlands (WL)? If any boxes are checked, provide the number of square feet affected.

☒ CW 311.5 ☐ SAV ☐ SB ☐ WL ☐ None

(ii) Describe the purpose of the excavation in these areas:

Widening of roadway. Impacts due to larger roadway footprint

g. (i) Will the placement of the proposed bridge or culvert result in any fill (other than excavated material described in Item d above) to be placed on high-ground? ☒ Yes ☐ No

If yes,

(ii) Avg. length of area to be filled: 1720'

(iii) Avg. width of area to be filled: 34'

(iv) Purpose of fill: Widening of roadway. Impacts due to larger roadway footprint

4. GENERAL

a. Will the proposed project require the relocation of any existing utility lines? ☒ Yes ☐ No

If yes, explain: Phone lines currently hanging on bridge will be replaced via directional bore; see attached utility plans.

b. Will the proposed project require the construction of any temporary detour structures? ☐ Yes ☒ No

If yes, explain:

If this portion of the proposed project has already received approval from local authorities, please attach a copy of the approval or certification.

< Form continues on back >

c. Will the proposed project require any work channels?

☐ Yes ☒ No

If yes, complete Form DCM-MP-2.

d. How will excavated or fill material be kept on site and erosion controlled?

Use of Standard NCDOT Best Management Practices, erosion control measures, and Design Standards in Sensitive Watersheds.

e. What type of construction equipment will be used (for example, dragline, backhoe, or hydraulic dredge)?

Heavy highway construction equipment

f. Will wetlands be crossed in transporting equipment to project site?

☐ Yes ☒ No

If yes, explain steps that will be taken to avoid or minimize environmental impacts.

g. Will the placement of the proposed bridge or culvert require any shoreline stabilization?

☐ Yes ☒ No

If yes, complete form MP-2, Section 3 for Shoreline Stabilization only.

Date

6.12.09

Project Name

B-3809

Applicant Name

Gregory J. Thape, PhD

Applicant Signature

E. J. Lusk for

Campbell Creek Mitigation Site Debit Ledger

The Campbell Creek Mitigation Site was constructed in 2006 as compensatory mitigation to offset unavoidable impacts associated with Tetterton Road (SR 1963). The project site is located approximately seven miles east of Aurora in Beaufort County. The Phase I site is adjacent to Campbell Creek and is approximately 29 acres in size. The site has undergone three years of successful hydrologic and vegetative monitoring as of the 2008 monitoring year.

In order to offset unavoidable Marsh impacts associated with T.I.P. B-3809, the Campbell Creek Mitigation Site will be debited 0.01 acre of Marsh Creation. This debit is reflected in the debit ledger below.

Site name	Site TIP	HUC	River Basin	Division	County	Mitigation Type
Campbell Creek	R-2510WM	3020104	Tar-Pamlico	2	Beaufort	Marsh Creation

As Built Quantity	Available	B-3809 Debit
1.33	1.177	0.01



May 18, 2009

Mr. Gregory J. Thorpe, Ph.D.
Environmental Management Director
Project Development and Environmental Analysis Branch
North Carolina Department of Transportation
1548 Mail Service Center
Raleigh, North Carolina 27699-1548

Dear Dr. Thorpe:

Subject: EEP Mitigation Acceptance Letter:

B-3809, Replace Bridge Number 64 over Pungo Creek on NC 99, Beaufort County

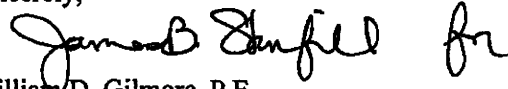
The purpose of this letter is to notify you that the Ecosystem Enhancement Program (EEP) will provide the buffer mitigation for the subject project. Based on the information supplied by you dated May 13, 2009, the impacts are located in CU 03020104 of the Tar-Pamlico River Basin in the Northern Outer Coastal Plain (NOCP) Eco-Region, and are as follows:

Buffer - Zone 1	6,063 square feet
Buffer - Zone 2	1,169 square feet

All buffer mitigation requests and approvals are administrated through the Riparian Restoration Buffer Fund. The NCDOT will be responsible to ensure that appropriate compensation for the buffer mitigation will be provided in the agreed upon method of fund transfer. Upon receipt of the NCDWQ's Buffer Authorization Certification, EEP will transfer funds from Tri-Party MOA Fund into the Riparian Restoration Buffer Fund. Upon completion of transfer payment, NCDOT will have completed its riparian buffer mitigation responsibility for the above referenced project. Subsequently, EEP will conduct a review of current MOA mitigation projects in the river basin to determine if available buffer mitigation credits exist. If there are buffer mitigation credits available, then the Riparian Restoration Buffer Fund will purchase the appropriate amount of buffer mitigation credits from Tri-Party MOA Fund.

If you have any questions or need additional information, please contact Ms. Beth Harmon at 919-715-1929.

Sincerely,


William D. Gilmore, P.E.
EEP Director

cc: Mr. William Wescott, USACE - Washington Regulatory Field Office
Mr. Brian Wrenn, Division of Water Quality - Wetlands/401 Unit
File: B-3809

Restoring... Enhancing... Protecting Our State





North Carolina Department of Environment and Natural Resources

Division of Water Quality

Coleen H. Sullins

Director

Beverly Eaves Perdue
Governor

Dee Freeman

Secretary

February 13, 2009

RECEIVED
FEB 19 2009

**DIVISION OF HIGHWAYS
HYDRAULICS UNIT**

Mr. Jay Twisdale, PE
NCDOT – Hydraulics Unit
1590 Mail Service Center
Raleigh, NC 27699-1590

**Subject: Stormwater Permit Exclusion – NC DOT Activity
Replacement of Bridge No.64 over Pungo Creek on NC 99
Stormwater Project No. SW7090210
Beaufort County**

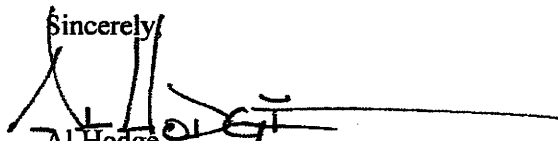
Dear Mr. Twisdale:

On February 13, 2009, the Washington Regional Office of the Division of Water Quality received a Coastal Stormwater Permit Application for the replacement of Bridge No. 64, located over Pungo Creek on NC 99 in Beaufort County. Staff review of the plans and supporting documents has determined that the project proposes activities that are excluded from State Stormwater permitting requirements as set forth in Section 2.(d)(1) of Session Law 2008-211, effective October 1, 2008, and the stormwater rules under Title 15A NCAC 2H .1000, as amended.

Therefore, the Director of the Division of Water Quality is hereby providing confirmation that the subject project is excluded from State Stormwater permitting requirements, being an activity of the NC DOT that is regulated in accordance with the provisions of the NC DOT's National Pollutant Discharge Elimination System (NPDES) Stormwater Permit.

Under Section 15A NCAC 2H .1003, any future development or changes to the proposed development, including but not limited to, the locations of the built-upon area and construction of additional built-upon area, may require approval or a Stormwater Management permit application and permit issuance from the Division of Water Quality prior to any construction. Any construction on the site prior to receipt of the required approval or permit will constitute a violation of Title 15A NCAC 2H.1000 and Session Law 2008-211, and may result in the initiation of appropriate enforcement action.

Please keep in mind that this determination does not affect your legal obligation to obtain other permits and approvals, which may be required by Federal, State, or local government agencies, rule or law. If you have any questions, or need additional information concerning this matter, please contact either Scott Vinson or me at (252) 946-6481.

Sincerely,

Al Hodge
Regional Supervisor
Surface Water Protection Section

AH/sv: S:\WQS\STORMWATER\PERMIT\EXCLUSIONS\SW7090210

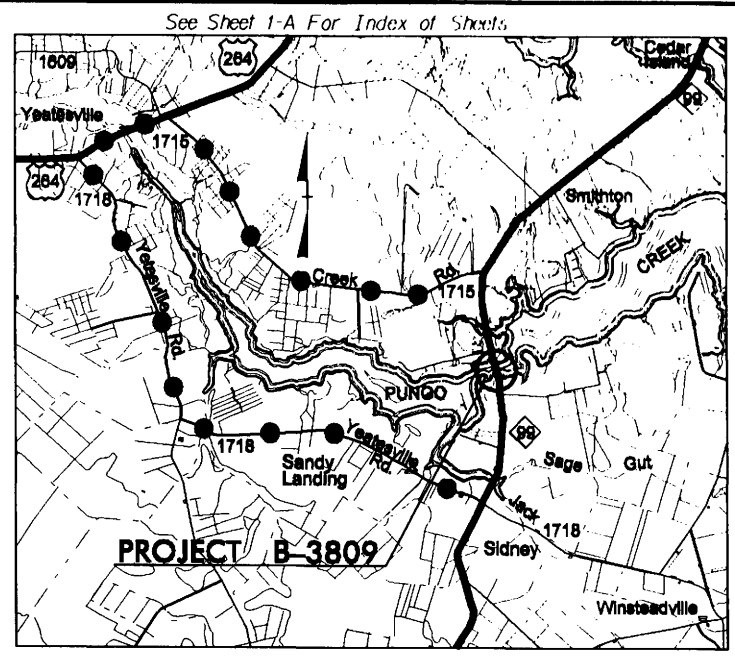
cc: Beaufort County Building Inspections
Division of Coastal Management, WaRO
Garcy Ward, DWQ
Washington Regional Office
Central Files

17-MAR-2009 10:29
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pdkinson AL HY24515

09/08/99

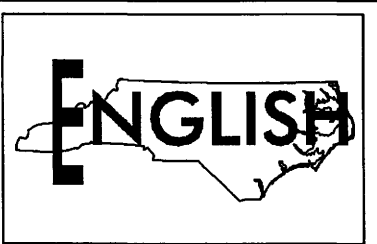
TIP PROJECT: B-3809

CONTRACT:



VICINITY MAP
DETOUR ROUTE —●—●—●—

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
BEAUFORT COUNTY



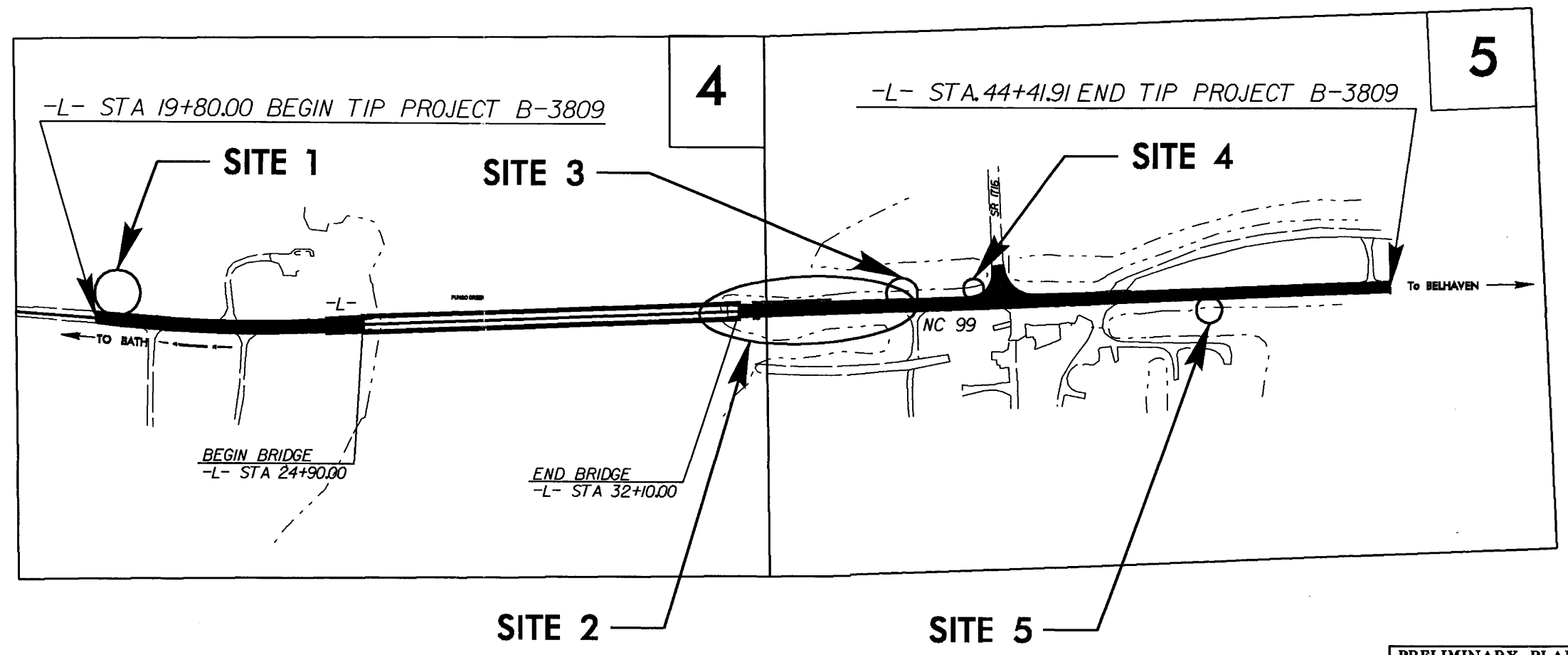
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-3809	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
33264.1.1	BRSTP - 99 (2)	PE	

LOCATION: BRIDGE 64 OVER PUNGO CREEK ON NC 99

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

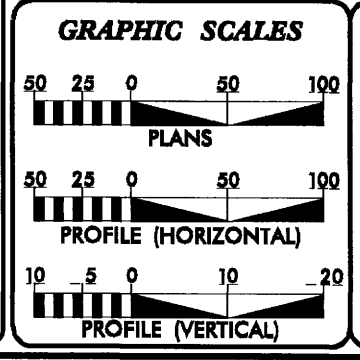
Permit Drawing
Sheet 1 of 8
NAD 83

WETLAND/SURFACE WATER PERMIT DRAWINGS



CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III
THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



DESIGN DATA

ADT 2007 =	3,400
ADT 2030 =	5,600
DHV =	10 %
D =	60 %
T =	9 % *
V =	60 MPH
* TTST 3	DUAL 6

PROJECT LENGTH

LENGTH OF ROADWAY TIP PROJECT B-3809	=	0.331 MILES
LENGTH OF STRUCTURE TIP PROJECT B-3809	=	0.136 MILES
TOTAL LENGTH OF STATE PROJECT B-3809	=	0.467 MILES

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

2006 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
FEBRUARY 23, 2009

LETTING DATE:
FEBRUARY 16, 2010

TED S. WALLS
PROJECT ENGINEER

ALLISON K. WHITE
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

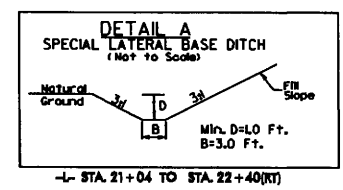
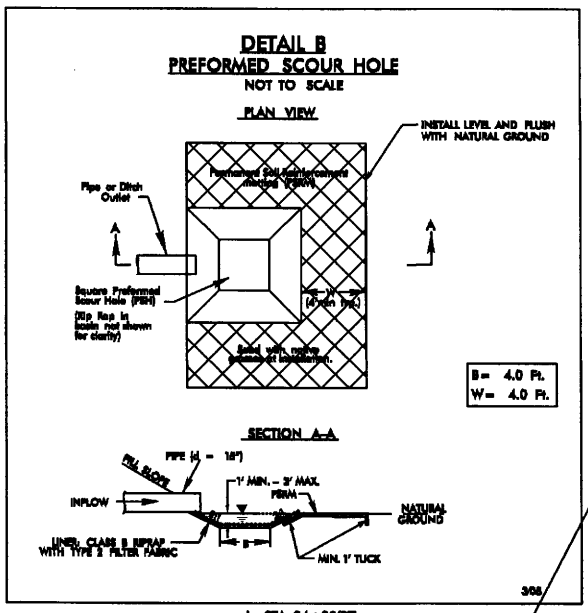
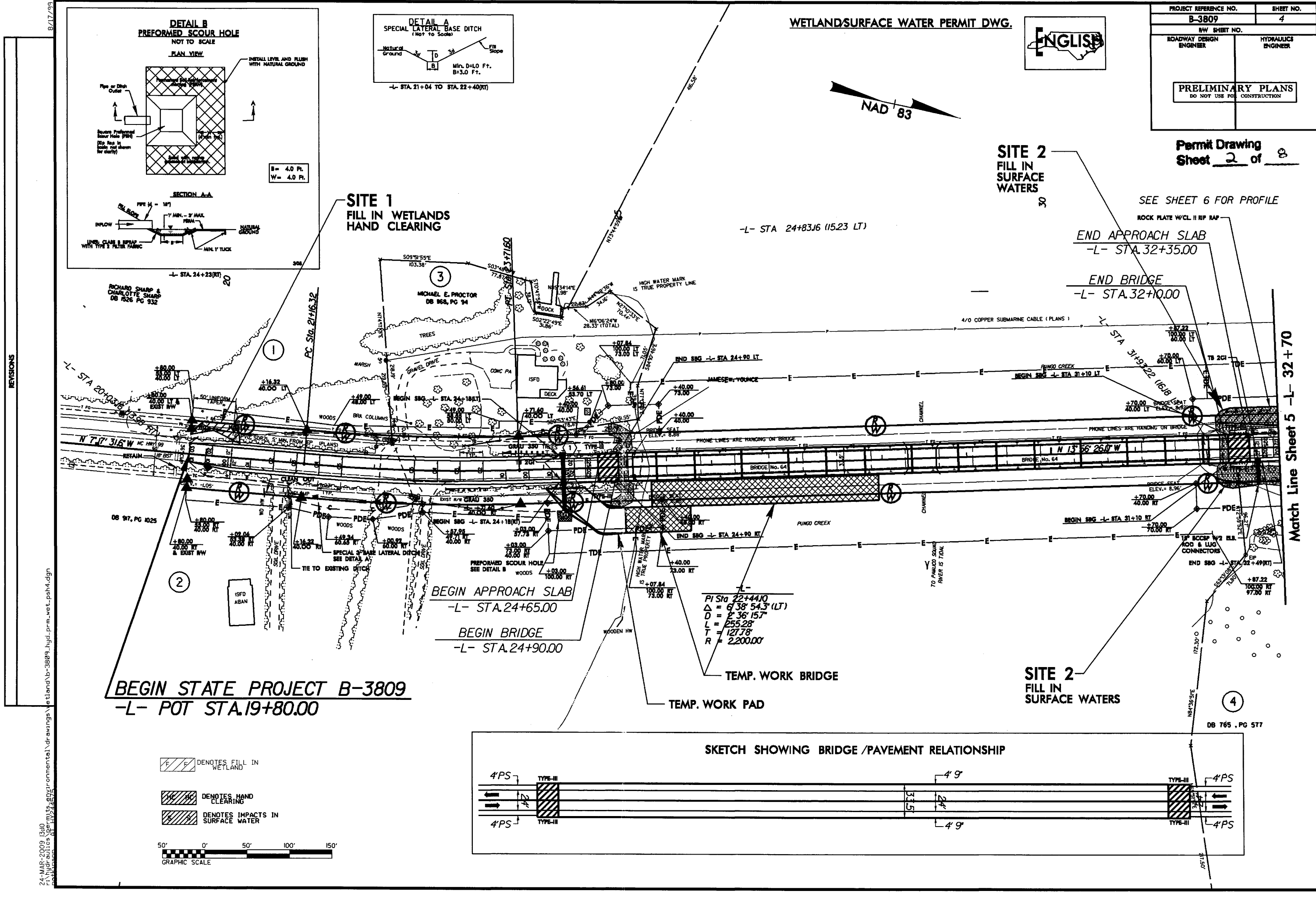
SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.

**DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA**

STATE HIGHWAY DESIGN ENGINEER



WETLAND/SURFACE WATER PERMIT DWG.



PROJECT REFERENCE NO.	SHEET NO.
B-3809	4
HW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

Permit Drawing
Sheet 2 of 2

SEE SHEET 6 FOR PROFILE

END APPROACH SLAB
-L- STA. 32+35.00

END BRIDGE
-L- STA. 32+00.00

ROCK PLATE W/CL II RIP RAP

4/0 COPPER SUBMARINE CABLE (PLANS)

STA 31+93.22 (1618)

STA 31+10 LT

STA 31+10 LT

STA 31+10 LT

STA 31+10 LT

STA 31+10 LT

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BEGIN STATE PROJECT B-3809
-L- POT STA. 19+80.00

BEGIN APPROACH SLAB
-L- STA. 24+65.00

BEGIN BRIDGE
-L- STA. 24+90.00

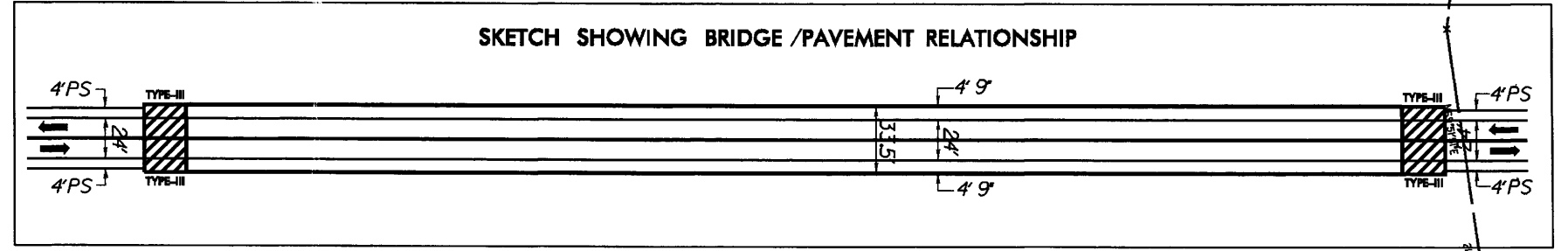
TEMP. WORK BRIDGE

TEMP. WORK PAD

SITE 2
FILL IN
SURFACE WATERS

Match Line Sheet 5 - L- 32+70

SKETCH SHOWING BRIDGE /PAVEMENT RELATIONSHIP



- DENOTES FILL IN WETLAND
- DENOTES HAND CLEARING
- DENOTES IMPACTS IN SURFACE WATER



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B-17/99

8/17/99

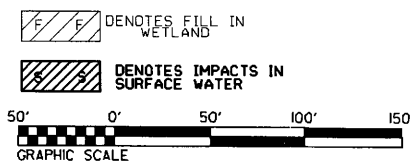
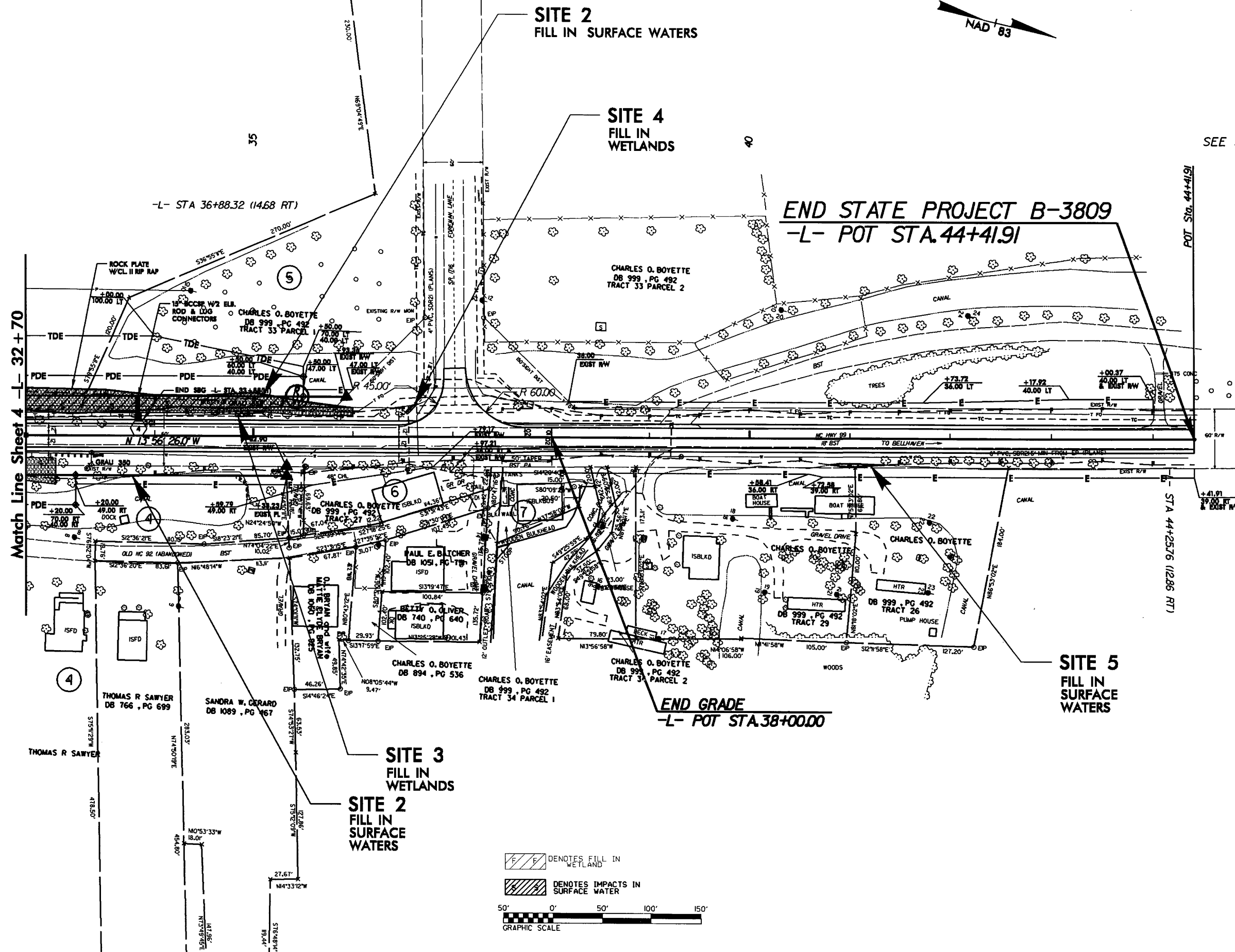
WETLAND/SURFACE WATER PERMIT DWG.



PROJECT REFERENCE NO.	SHEET NO.
B-3809	5
HW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

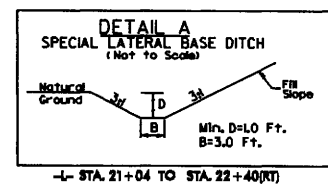
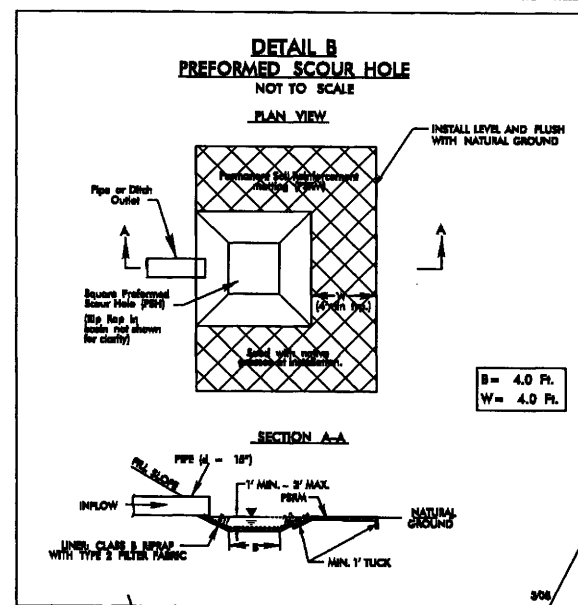
Permit Drawing
Sheet 3 of 8

SEE SHEET 6 FOR PROFILE



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WETLAND/SURFACE WATER PERMIT DWG.



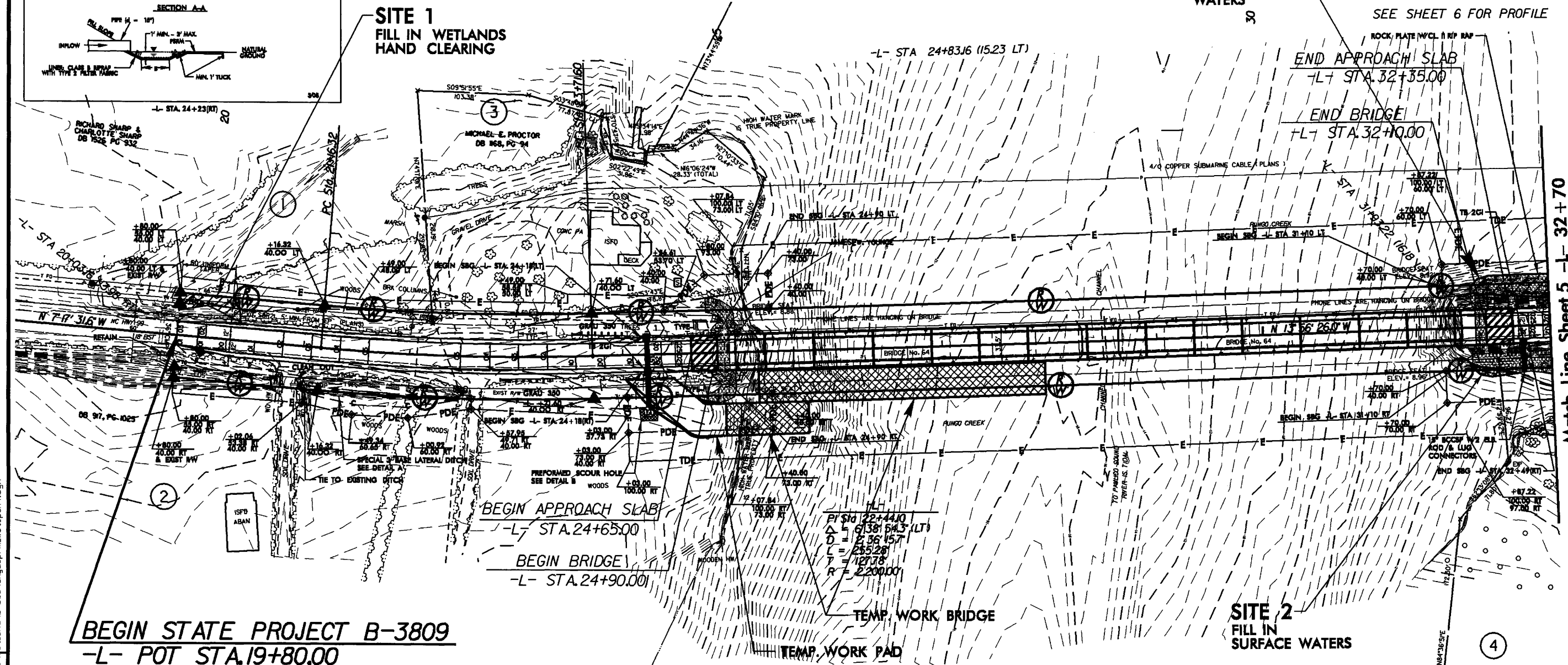
NAD 83

SITE 2

FILL IN SURFACE WATERS

Permit Drawing
Sheet 4 of 8

SEE SHEET 6 FOR PROFILE



BEGIN STATE PROJECT B-3809
-L- POT STA. 19+80.00

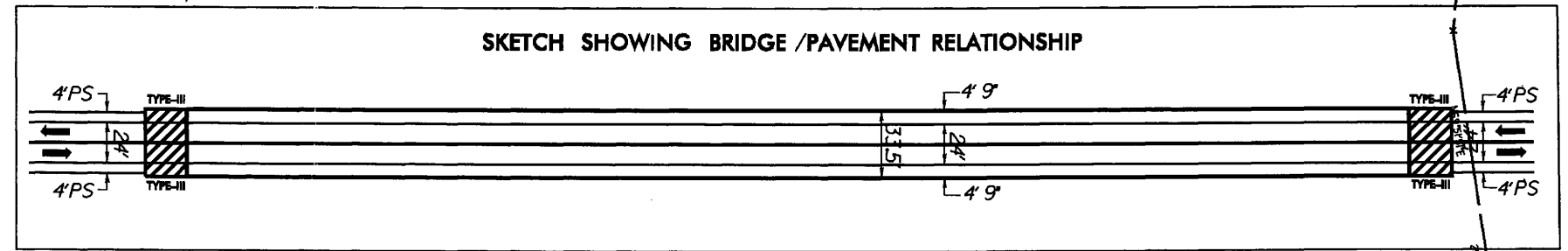
TEMP. WORK BRIDGE

TEMP. WORK PAD

SITE 2
FILL IN
SURFACE WATERS

DB 765 , PG 577

SKETCH SHOWING BRIDGE /PAVEMENT RELATIONSHIP



 DENOTES FILL IN WETLAND

 DENOTES HAND CLEARING

 DENOTES IMPACTS IN SURFACE WATER



Permit Drawing
Sheet 5 of 8

PROFILE

SITE 4

FILL IN WETLANDS

END STATE PROJECT B-3809
-L- POT STA. 44+41.91

CHARLES D. BOYETTE
DB 999, PG 492
TRACT 33/PARCEL 2

SITE 5
FILL IN
SURFACE
WATERS

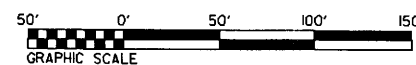
SITE 3

FILL IN WETLANDS

SITE 2
FILL IN
SURFACE
WATERS

 DENOTES FILL IN
WETLAND

DENOTES IMPACTS IN
SURFACE WATER



Match Line Sheet 4 - L- 32 + 70

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 Atkinson

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atkinson AT-HY

5/28/99

24-MAR-2009 15:46
\\wv\projects\environmental\drawings\wetland\B3809-hyd-prm-wet.dgn
B3809

RIGHT DITCH

EM 1 DAVIS RESET 1984
BRASS CAP IN A CONC MON.
25' RT RIGHT OF -L- STA 24+51.20
EL = 8.0'

BRIDGE HYDRAULIC DATA		
DESIGN DISCHARGE	+	CFS
DESIGN FREQUENCY	+	YRS
DESIGN HW ELEVATION	+	FT
BASE DISCHARGE	+	CFS
BASE FREQUENCY	+	YRS
BASE HW ELEVATION	+	FT
OVERTOPPING DISCHARGE	+	CFS
OVERTOPPING FREQUENCY	+	YRS
OVERTOPPING ELEVATION	+	FT
DATE OF SURVEY	+	7/24/2008
INS. ELEVATION	+	0.98 FT
AT DATE OF SURVEY	+	

PROJECT REFERENCE NO. B-3809	SHEET NO. 6
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

Permit Drawing
Sheet **6** of **8**

BEGIN GRADE
-L- 19+80.00
ELEV. = 6.84'

PI = 22+00.00
EL = 7.05'
VC = 440'
K = 163

BEGIN BRIDGE
-L- STA 24+90.00

PI = 28+50.00
EL = 28.23'
VC = 880'
K = 155

SEE PLAN SHEET 4 & 5 FOR PLAN VIEW

END BRIDGE
-L- STA 32+00.00

MEAN HIGH WATER ELEV. = 1.5'
MEAN TIDE LEVEL ELEV. = 0.9'
MEAN LOW WATER ELEV. = 0.3'

TEMP WORK BRIDGE

END GRADE
-L- 38+00.00
ELEV. = 5.45'

PI = 35+00.00
EL = 4.39'
VC = 420'
K = 142

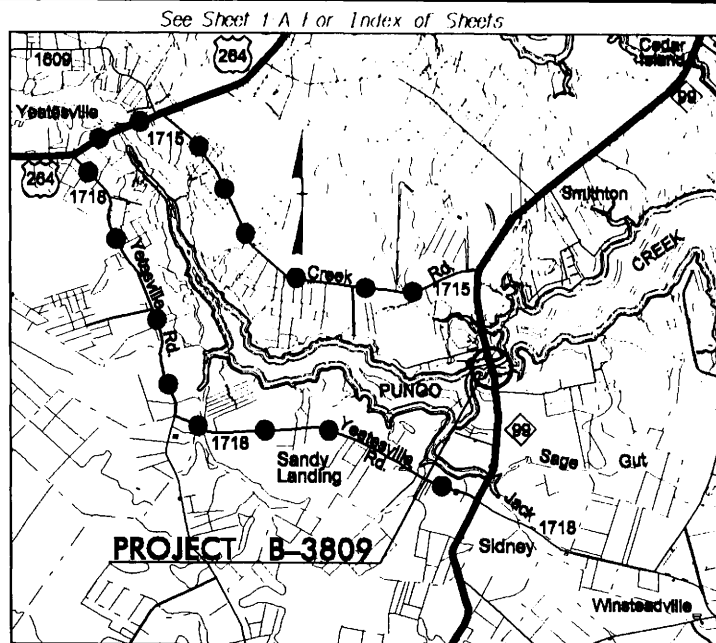
WETLAND/SURFACE WATER PERMIT DWG.

TIP # B-3809

Courtesy Title	Alternate Courtesy Title	Last Name	First Name	Address	City/Town	State	Zip Code	Home Phone	Business Phone	Contacted	How Contacted	Whom Contacted
Mr.		Murray	Thomas Lensey	1225 Sunset Drive	Rocky Mount	NC	27804	(252) 446-5742		TRUE	Phone/Letter	Person in the office
Mr.	Mrs.	Younce	James W. ✓	4489 NC Hwy. 99	Belhaven	NC	27810	(252) 964-4416		TRUE	Phone/Letter	Mrs. Younce
Mr.	Mrs.	DeHoog, Jr.	Arie	444 Woodstock Lane	Belhaven	NC	27810	(252) 964-4879		TRUE	Phone/Letter	Mrs. Arie DeHoog, Jr.
Mr.		Proctor	Michael E. ✓	4420 Hwy. 99 South	Belhaven	NC	27810	(252) 964-4016		TRUE	Phone	Mrs. M. E. Proctor
Dr.		Boyette	Charles O.	PO Box 310	Belhaven	NC	27810	(252) 943-6699	(252) 943-6144	FALSE		
Dr.		Boyette	Charles O.	PO Box 310	Belhaven	NC	27810			FALSE		
Dr.		Boyette	Charles O.	PO Box 310	Belhaven	NC	27810			FALSE		
Dr.		Boyette	Charles O.	PO Box 310	Belhaven	NC	27810			FALSE		
Dr.		Sawyer	Thomas R.	4209 NC Hwy. 99 South	Belhaven	NC	27810	(252) 964-4809		TRUE	Phone/Letter	Mrs. Thomas R. Sawyer
Mr.	Mrs.	Sawyer	Thomas R. ✓	4209 NC Hwy. 99 South	Belhaven	NC	27810			TRUE	Phone/Letter	Mrs. Thomas R. Sawyer
Mr.		Batcher	Paul E. ✓	22 Batcher Lane	Belhaven	NC	27810			FALSE		
Dr.		Boyette	Charles O.	PO Box 310	Belhaven	NC	27810			FALSE		
Dr.		Boyette	Charles O.	PO Box 310	Belhaven	NC	27810			FALSE		
Dr.		Boyette	Charles O.	PO Box 310	Belhaven	NC	27810			FALSE		
Dr.		Boyette	Charles O.	PO Box 310	Belhaven	NC	27810	(252) 943-6699	(252) 743-6144	FALSE		
Dr.		Boyette	Charles O.	PO Box 310	Belhaven	NC	27810			FALSE		
Dr.		Bryan	O. Larry	1307 Greenville Blvd.	Belhaven	NC	27810	(252) 756-9338		TRUE	Phone/Letter	Mrs. Larry Bryan
Mr.		Oliver	Betty Ormand	1248 Pine Valley Dr.	Greenville	NC	27858			FALSE		
Mrs.		Gerard	Sandra Woolard	4960 Market Street Ext.	New Bern	NC	28562			TRUE	Letter	Mrs. Sandra W. Gerard
Mr.		Keech	Ricky W.	460 Tooley St., Lot 10	Washington	NC	27889			TRUE	Letter	Mr. Ricky W. Keech
Dr.		Boyette	Charles O. ✓		Belhaven	NC	27810			TRUE	Phone	Dr. Boyette

09/08/99

TIP PROJECT: B-3809



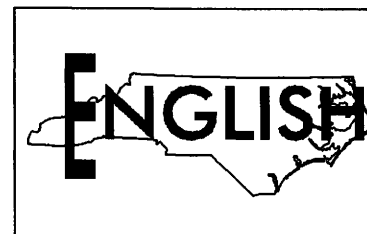
VICINITY MAP

DETOUR ROUTE —●—●—●—

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
BEAUFORT COUNTY

LOCATION: BRIDGE 64 OVER PUNGO CREEK ON NC 99

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

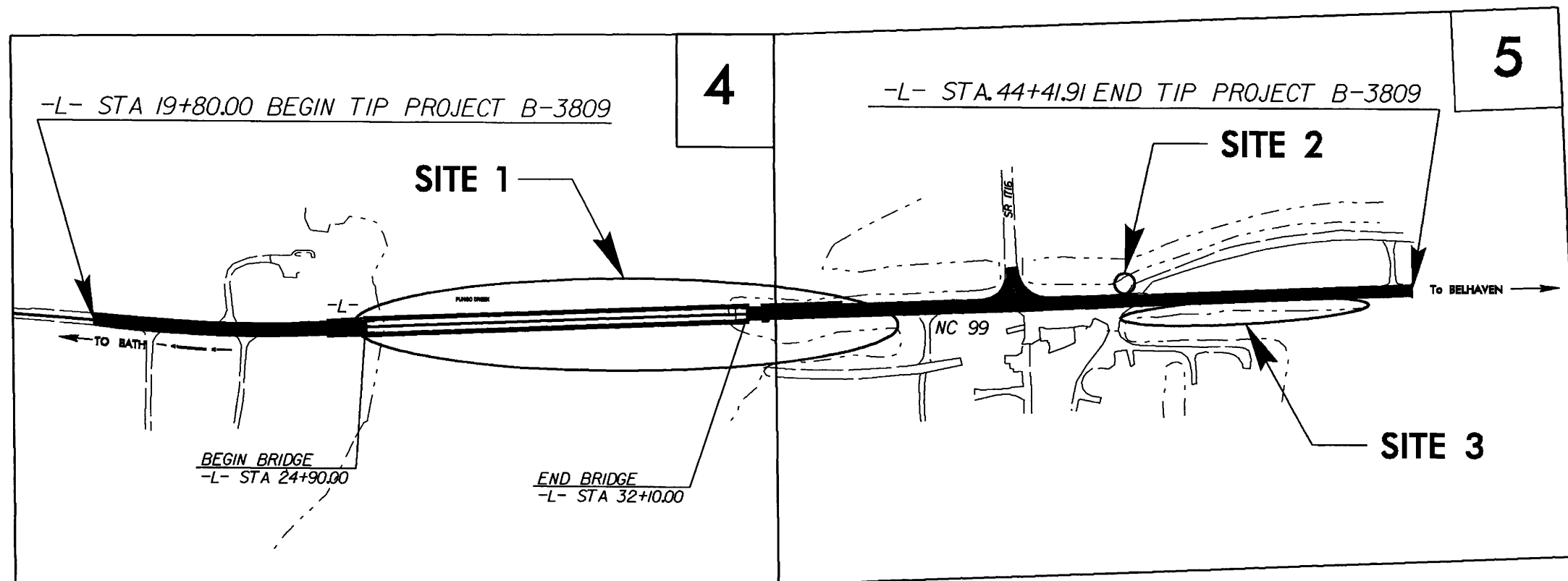


STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-3809	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
33264.1.1	BRSTP - 99 (2)	PE	

Buffer Drawing
Sheet 1 of 6



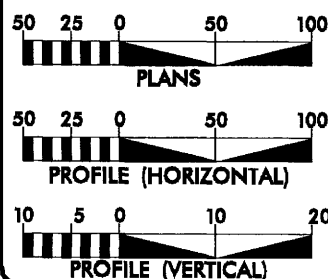
BUFFER PERMIT DRAWINGS



CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III
THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

GRAPHIC SCALES



DESIGN DATA

ADT 2007 = 3,400
ADT 2030 = 5,600
DHV = 10 %
D = 60 %
T = 9 % *
V = 60 MPH
* TTST 3 DUAL 6

PROJECT LENGTH

LENGTH OF ROADWAY TIP PROJECT B-3809 = 0.331 MILES
LENGTH OF STRUCTURE TIP PROJECT B-3809 = 0.136 MILES
TOTAL LENGTH OF STATE PROJECT B-3809 = 0.467 MILES

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

2006 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
FEBRUARY 23, 2009

LETTING DATE:
FEBRUARY 16, 2010

TED S. WALLS
PROJECT ENGINEER

ALLISON K. WHITE
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

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pattinson At HY24575

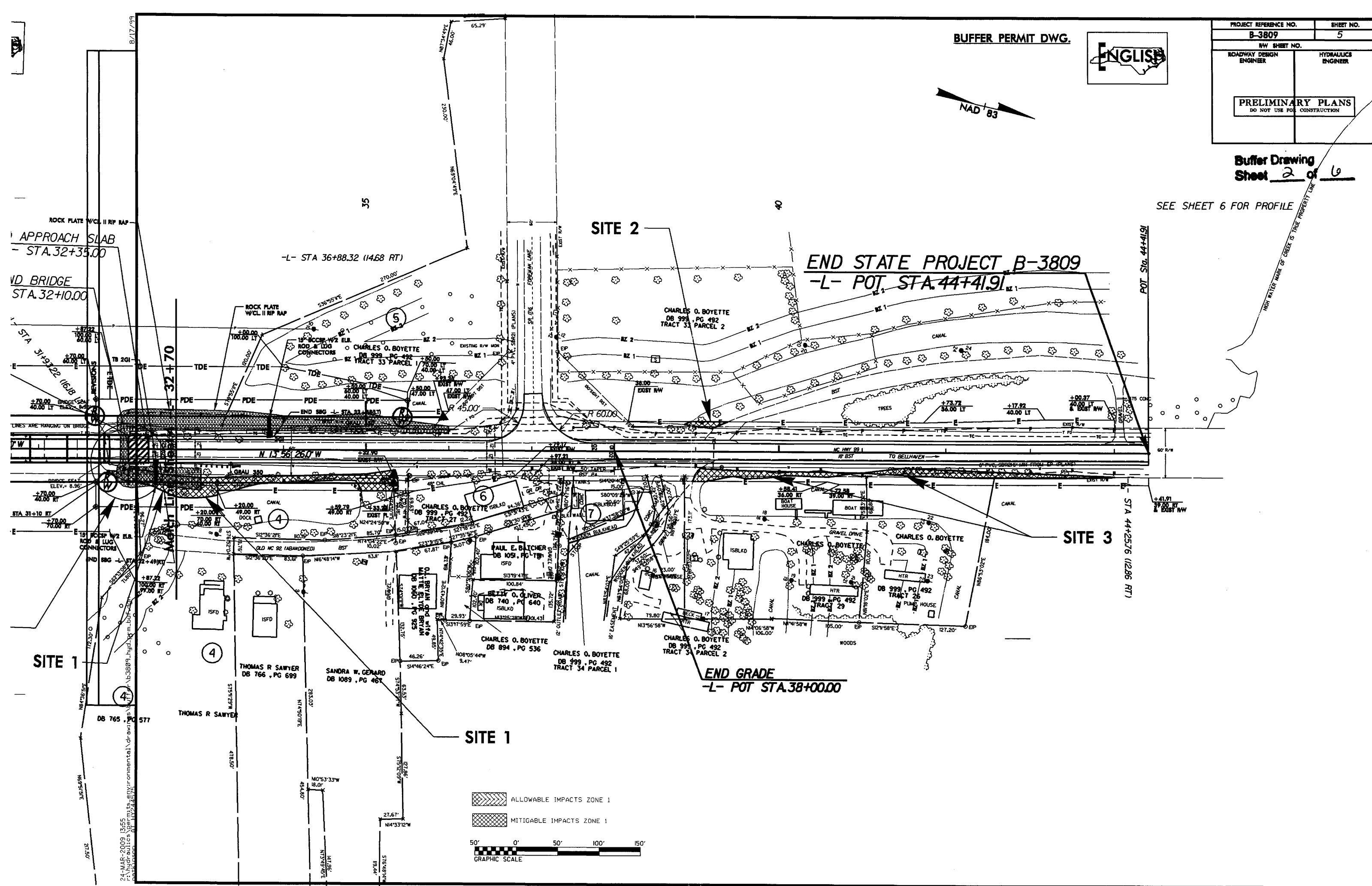
BUFFER PERMIT DWG.



PROJECT REFERENCE NO. B-3809	SHEET NO. 5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	

Buffer Drawing
Sheet 2 of 6

SEE SHEET 6 FOR PROFILE



END STATE PROJECT B-3809
-L- POT STA. 44+41.91

END GRADE
-L- POT STA. 38+00.00

SITE 1

SITE 3

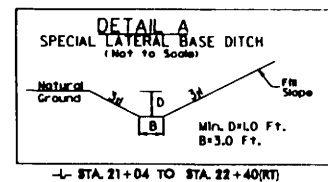
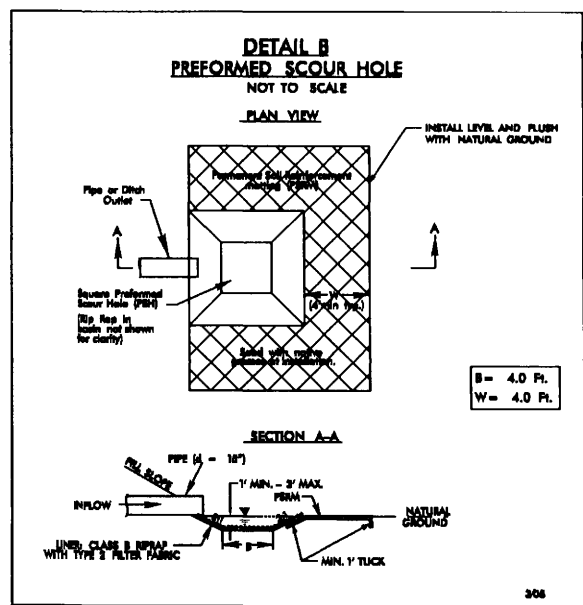
SITE 2

ALLOWABLE IMPACTS ZONE 1
MITIGABLE IMPACTS ZONE 1



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B-3809.dwg

8/17/99
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BUFFER PERMIT DWG.



PROJECT REFERENCE NO.		SHEET NO.
B-3809		4
RW SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
PRELIMINARY PLANS		DO NOT USE FOR CONSTRUCTION

Buffer Drawing
Sheet 3 of 6

SEE ENLARGEMENT 1A

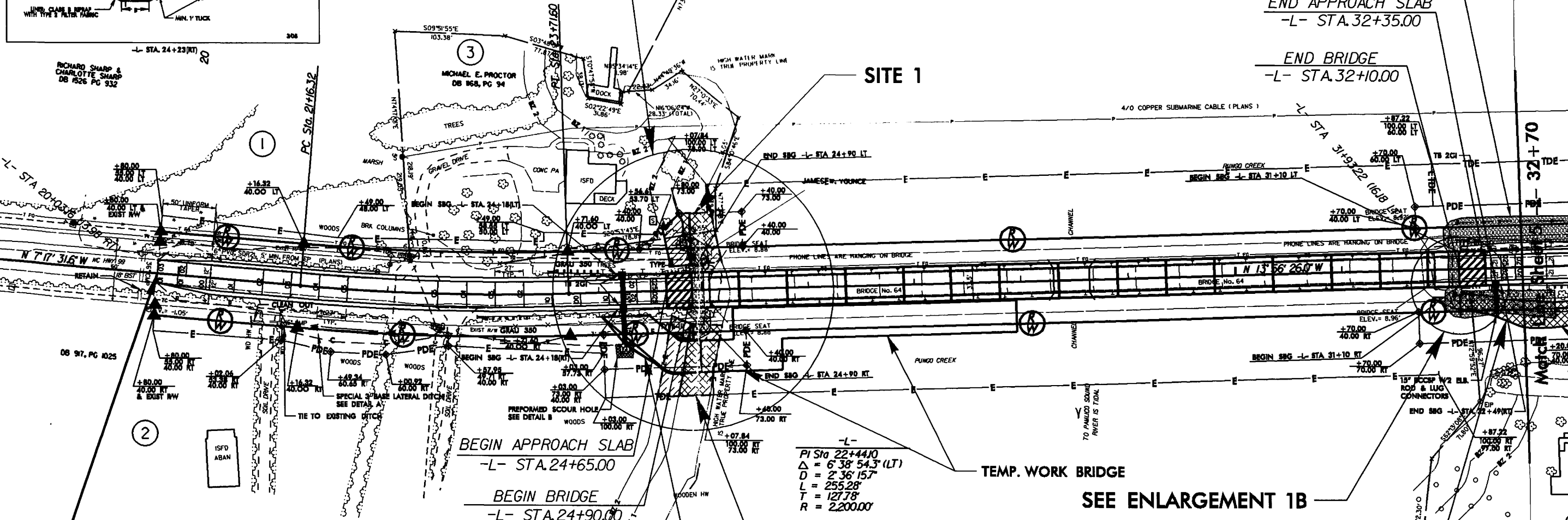


-L- STA 24+83.6 (115.23 LT)

SEE SHEET 6 FOR PROFILE

ROCK PLATE W/CL II RIP RAP
END APPROACH SLAB
-L- STA.32+35.00

END BRIDGE
-L- STA.32+10.00



BEGIN STATE PROJECT B-3809
-L- POT STA.19+80.00

BEGIN APPROACH SLAB
-L- STA.24+65.00

BEGIN BRIDGE
-L- STA.24+90.00

-L-
PI Sta 22+44.10
 $\Delta = 6^\circ 38' 54.3''$ (LT)
D = 2' 36' 15.7"
L = 255.28'
T = 127.78'
R = 2,200.00'

TEMP. WORK BRIDGE

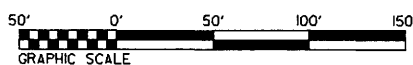
SEE ENLARGEMENT 1B

TEMP. WORK PAD

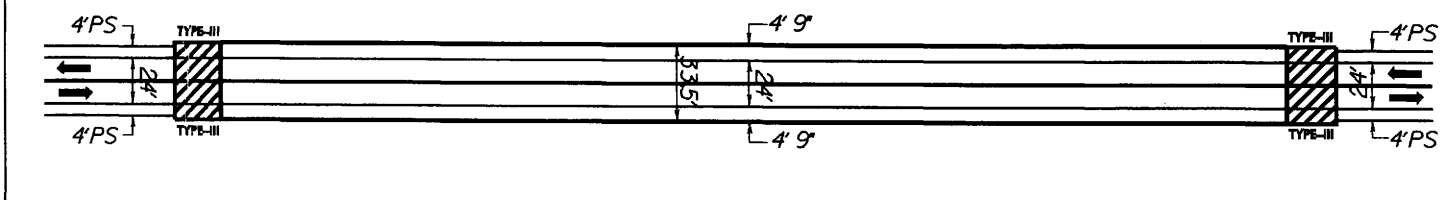
SITE 1

SITE 1

- ALLOWABLE IMPACTS ZONE 1
- ALLOWABLE IMPACTS ZONE 2
- MITIGABLE IMPACTS ZONE 1
- MITIGABLE IMPACTS ZONE 2



SKETCH SHOWING BRIDGE /PAVEMENT RELATIONSHIP

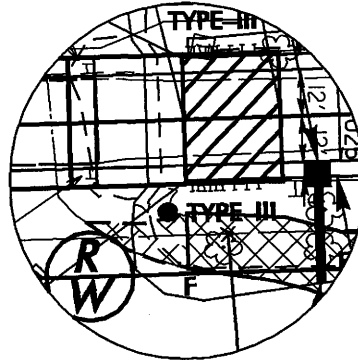


SITE 1

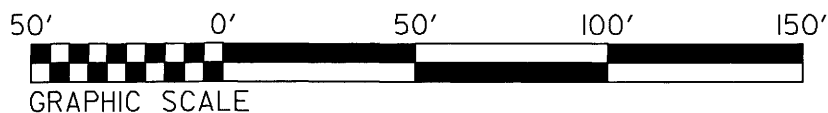
Buffer Drawing
Sheet 4 of 6

ENLARGEMENT 1B

SITE 1



NOTE: ABUTMENT RIP RAP SYMBOLS OMITTED FOR CLARITY



GRAPHIC SCALE

PLAN VIEW



ALLOWABLE IMPACTS ZONE 1



MITIGABLE IMPACTS ZONE 1

N. C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
BEAUFORT COUNTY

PROJECT: 33246.1.1 (B-3809)

BRIDGE NO. 64 OVER
PUNGO CREEK ON NC 99

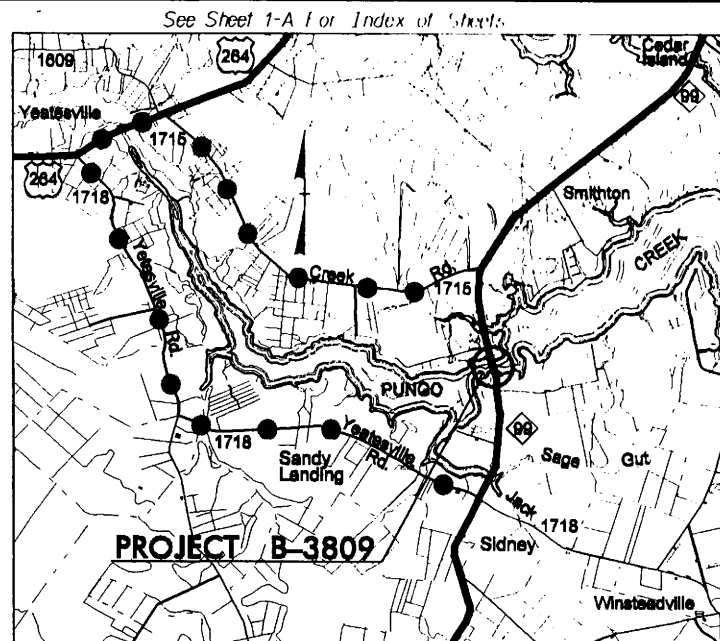
3/17/09

SHEET OF

09/08/99

TIP PROJECT: B-3809

CONTRACT:



VICINITY MAP

DETOUR ROUTE —●—●—●—

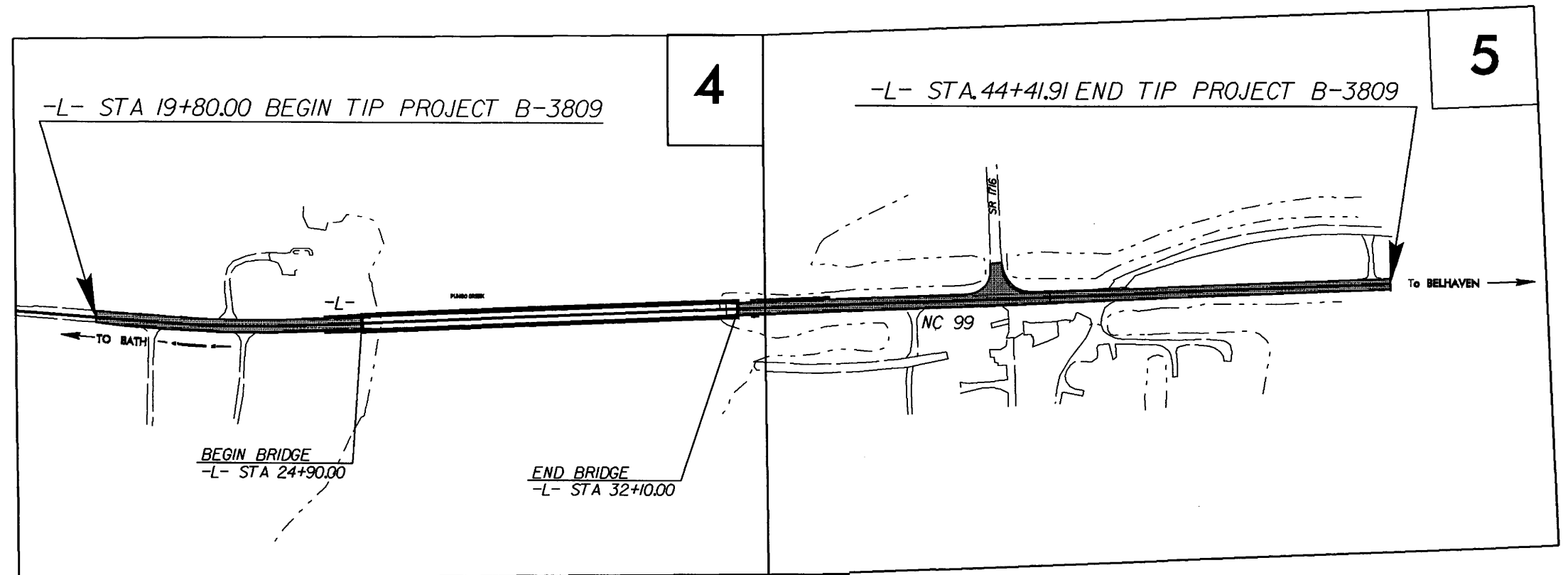
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

BEAUFORT COUNTY

LOCATION: BRIDGE 64 OVER PUNGO CREEK ON NC 99

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

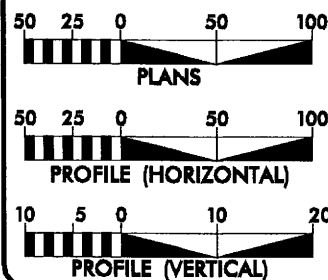
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-3809	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
33264.1.1	BRSTP - 99 (2)	PE	



CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III
THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

GRAPHIC SCALES



DESIGN DATA

ADT 2007 = 3,400
ADT 2030 = 5,600
DHV = 10 %
D = 60 %
T = 9 % *
V = 60 MPH
* TTST 3 DUAL 6

PROJECT LENGTH

LENGTH OF ROADWAY TIP PROJECT B-3809 = 0.331 MILES
LENGTH OF STRUCTURE TIP PROJECT B-3809 = 0.136 MILES
TOTAL LENGTH OF STATE PROJECT B-3809 = 0.467 MILES

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

2006 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
FEBRUARY 23, 2009

LETTING DATE:
FEBRUARY 16, 2010

TED S. WALLS
PROJECT ENGINEER

ALLISON K. WHITE
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 P.E.

17-MAR-2009 14:55
r:\roadway\proj\B3809_rdy_tsh.dgn
\$\$\$\$\$USERNAME\$\$\$\$\$

Note: Not to Scale***S.U.E. = Subsurface Utility Engineering**STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYSPROJECT REFERENCE NO.
B-3809SHEET NO.
1B

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

State Line	_____
County Line	_____
Township Line	_____
City Line	_____
Reservation Line	_____
Property Line	_____
Existing Iron Pin	○ EP
Property Corner	_____
Property Monument	□ EOM
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	-WLB-
Proposed Wetland Boundary	-WLB-
Existing Endangered Animal Boundary	-EAB-
Existing Endangered Plant Boundary	-EPB-

BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	○
Sign	○ S
Well	○ W
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	○ S
Wetland	WLB
Proposed Lateral, Tail, Head Ditch	→
False Sump	□

RAILROADS:

Standard Gauge	_____
RR Signal Milepost	○ MILE POST 35
Switch	□ 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	○ CA
Proposed Control of Access	○ CA
Existing Easement Line	-E-
Proposed Temporary Construction Easement	-E-
Proposed Temporary Drainage Easement	-TDE-
Proposed Permanent Drainage Easement	-PDE-
Proposed Permanent Utility Easement	-PUE-

ROADS AND RELATED FEATURES:

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

VEGETATION:

Single Tree	○
Single Shrub	○
Hedge	_____
Woods Line	_____
Orchard	○
Vineyard	Vineyard

EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	CONC
Bridge Wing Wall, Head Wall and End Wall	CONC WW
MINOR:	
Head and End Wall	CONC HW
Pipe Culvert	_____
Footbridge	_____
Drainage Box: Catch Basin, DI or JB	CB
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	-P-
Designated U/G Power Line (S.U.E.*)	-P-

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	-T-
Designated U/G Telephone Cable (S.U.E.*)	-T-
Recorded U/G Telephone Conduit	-TC-
Designated U/G Telephone Conduit (S.U.E.*)	-TC-
Recorded U/G Fiber Optics Cable	-T FO-
Designated U/G Fiber Optics Cable (S.U.E.*)	-T FO-

WATER:

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

TV:

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

GAS:

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

SANITARY SEWER:

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

MISCELLANEOUS:

Utility Pole	●
Utility Pole with Base	□
Utility Located Object	○
Utility Traffic Signal Box	⊗
Utility Unknown U/G Line	-UTIL-
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.

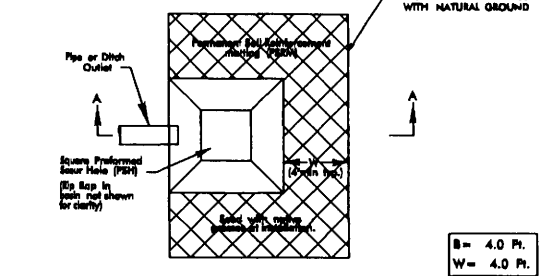
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PROJECT REFERENCE NO.		SHEET NO.
B-3809		4
RW SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION		

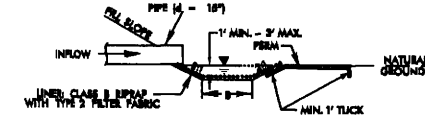
DETAIL B
PREFORMED SCOUR HOLE
NOT TO SCALE

PLAN VIEW



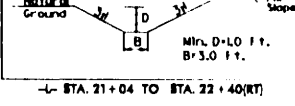
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W = 4.0 Ft.

SECTION A-A



-L- STA. 24+23(RT)

DETAIL A
SPECIAL LATERAL BASE DITCH
(Not to Scale)



-L- STA. 21+04 TO STA. 22+40(RT)



SEE SHEET 6 FOR PROFILE

END APPROACH SLAB
-L- STA. 32+35.00

END BRIDGE
-L- STA. 32+10.00

Match Line Sheet 5 -L- 32+70

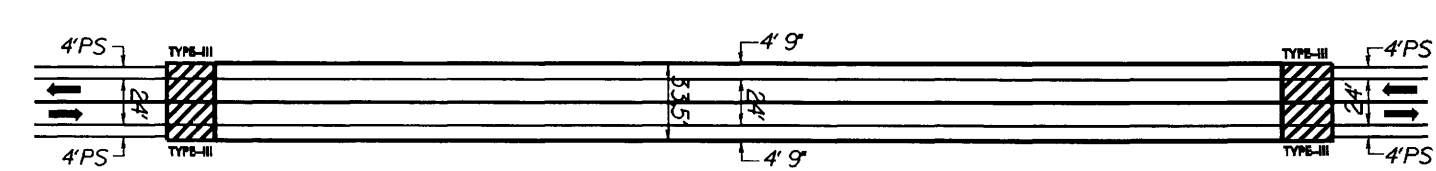
BEGIN STATE PROJECT B-3809
-L- POT STA. 19+80.00

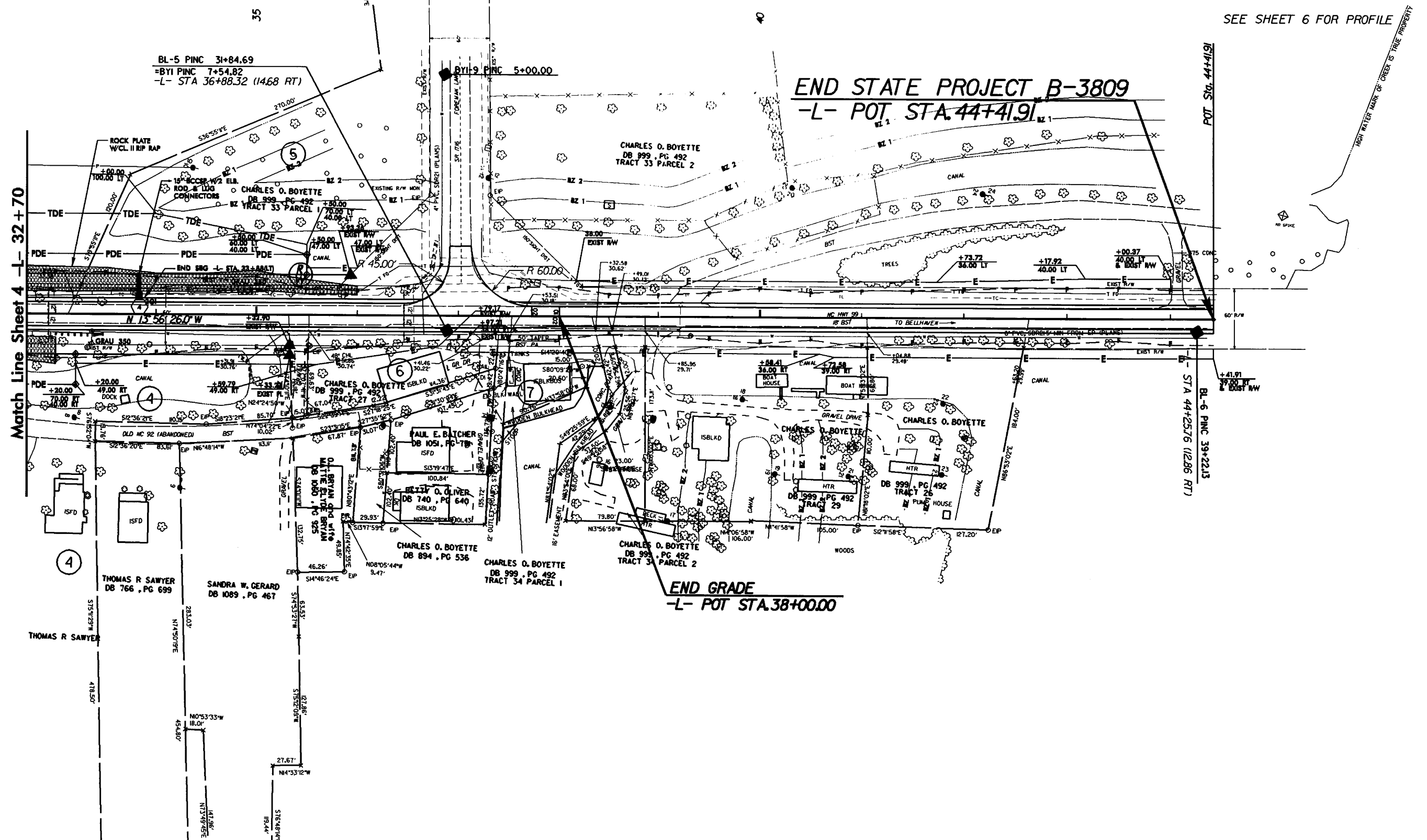
BEGIN APPROACH SLAB
-L- STA. 24+65.00

BEGIN BRIDGE
-L- STA. 24+90.00

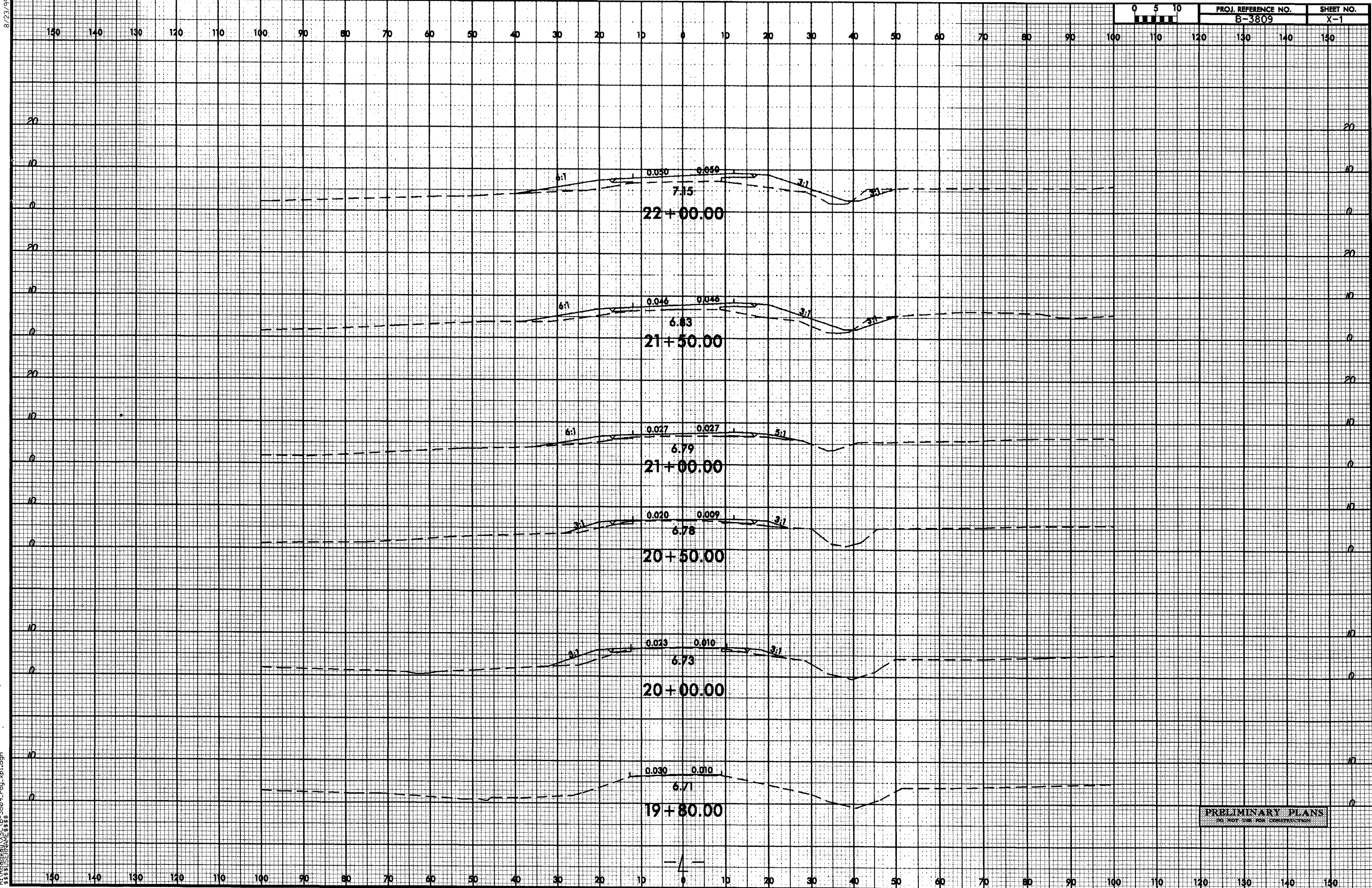
-L-
P/S to 22+44.10
 $\Delta = 6' 38'' 54.3''$ (LT)
 $D = 2' 36'' 15.7''$
 $L = 255.28'$
 $T = 127.78'$
 $R = 2200.00'$

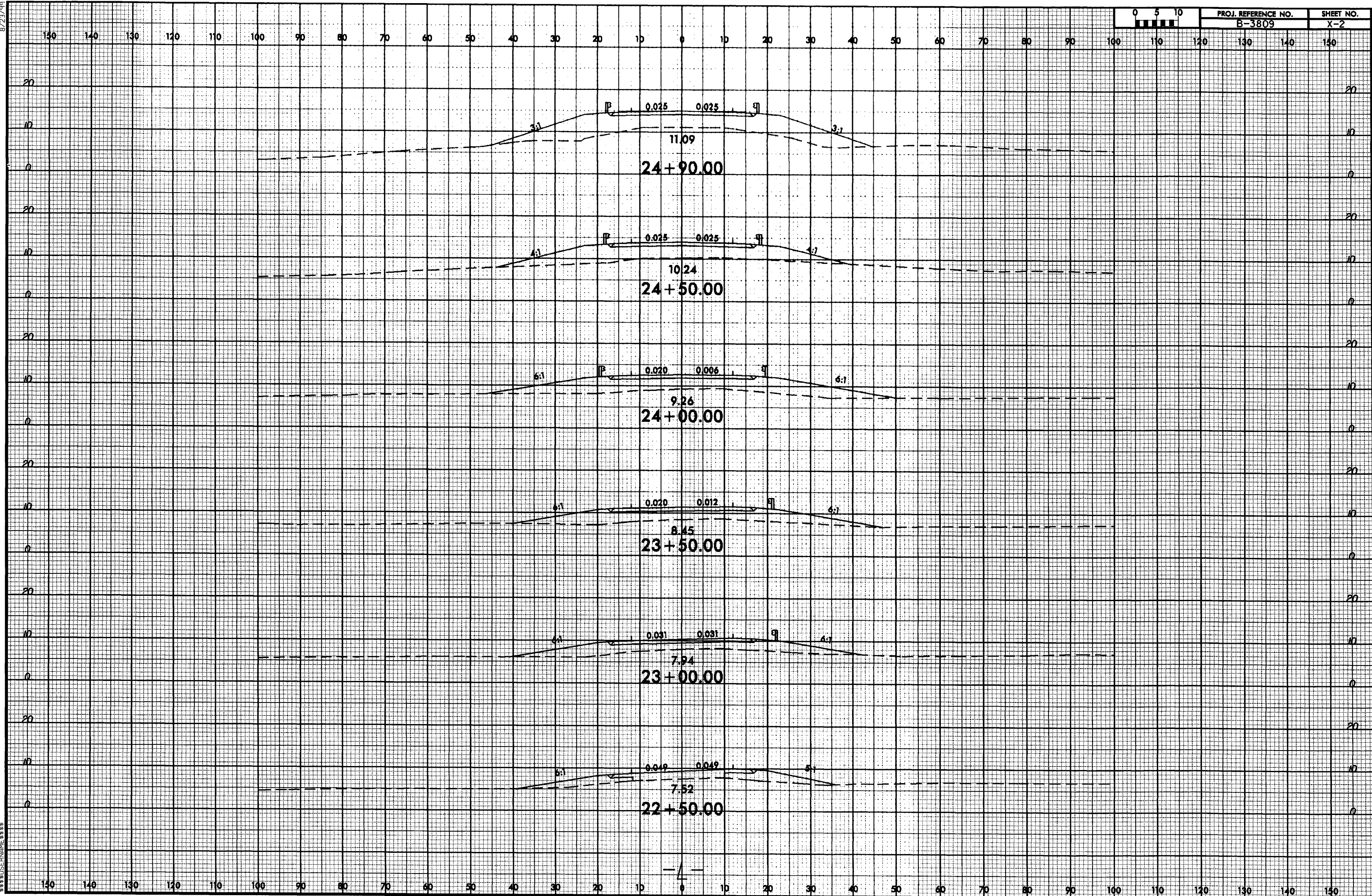
SKETCH SHOWING BRIDGE /PAVEMENT RELATIONSHIP

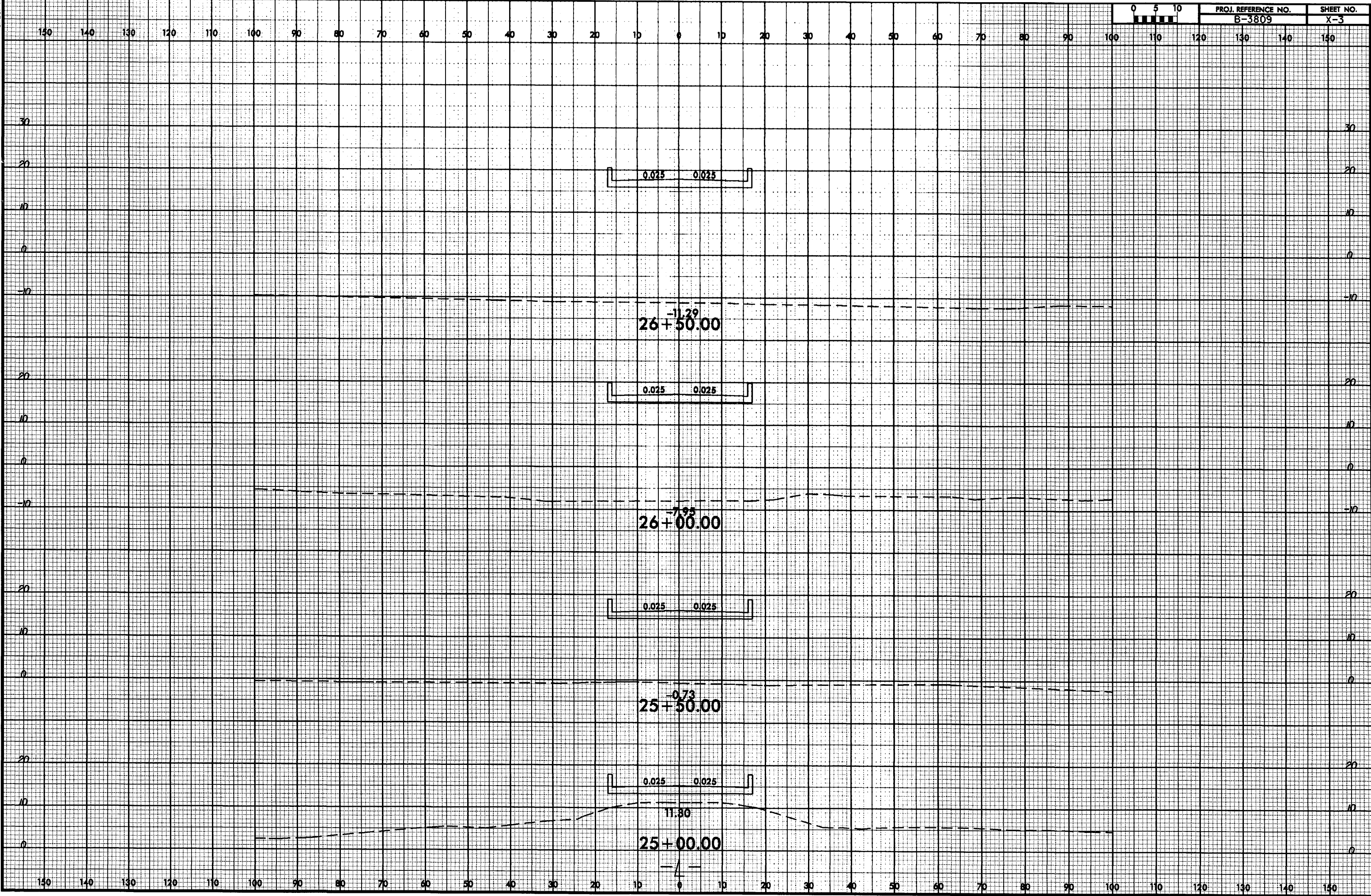




8/23/99

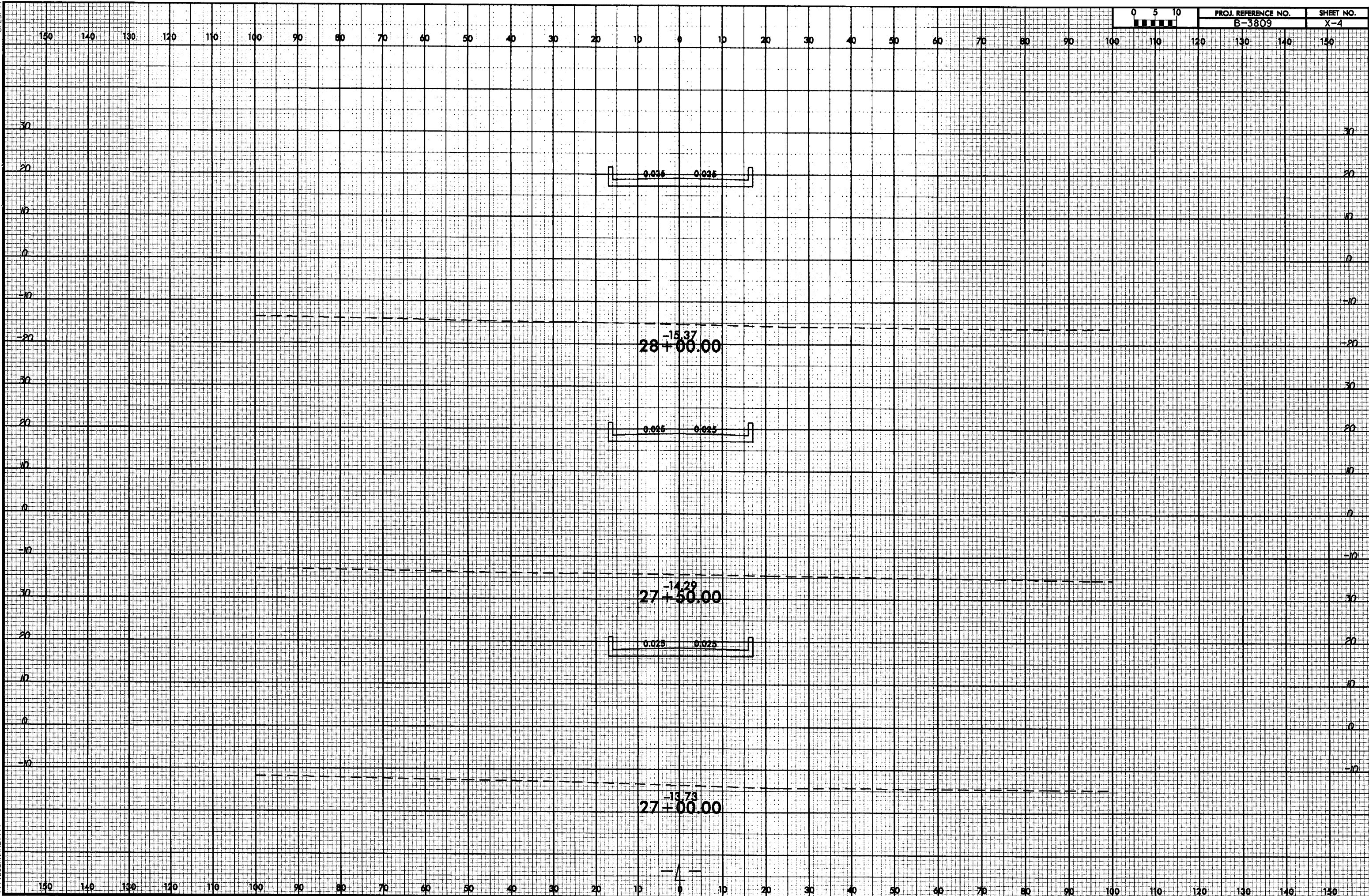


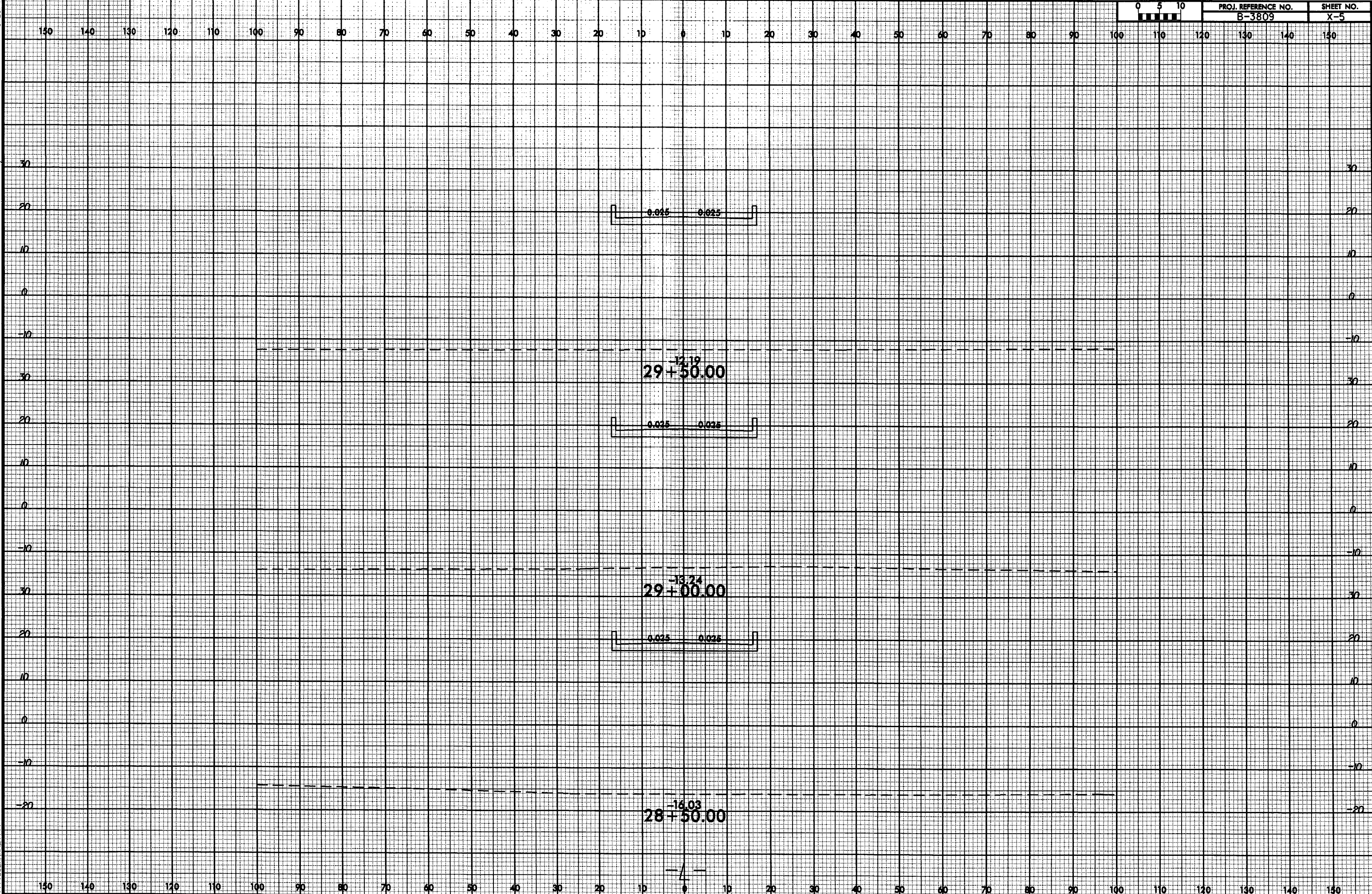


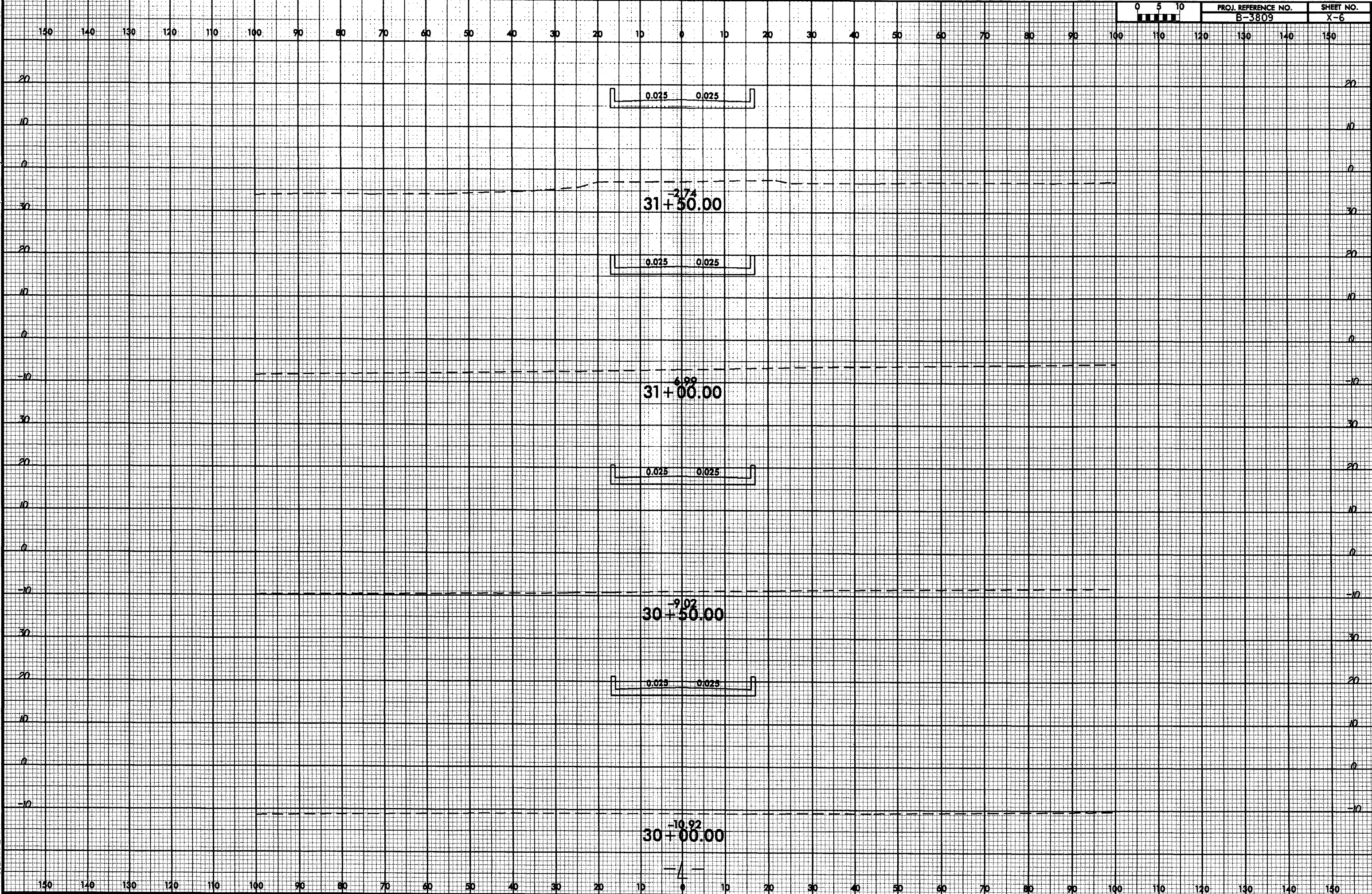


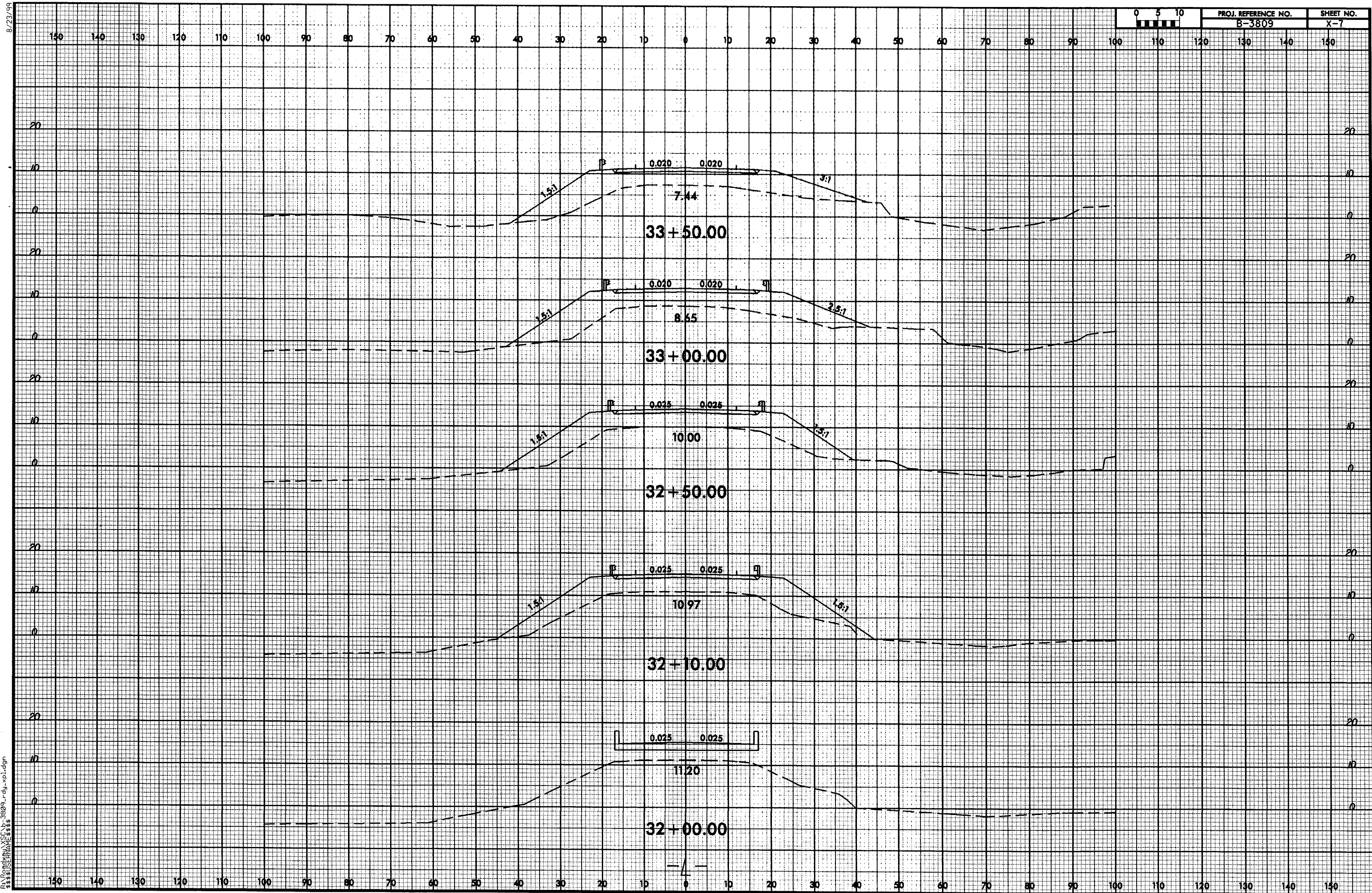
8/23/99

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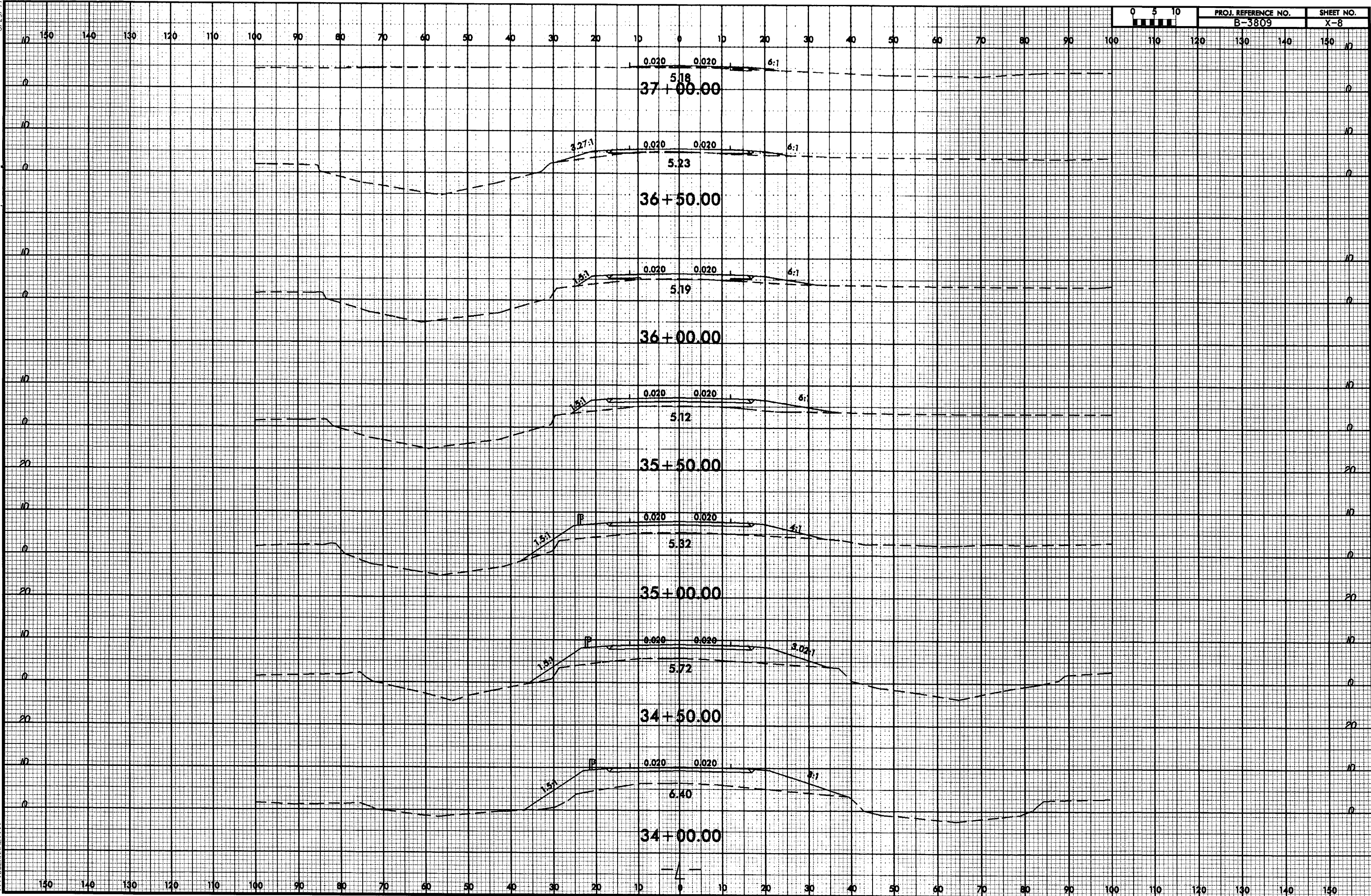


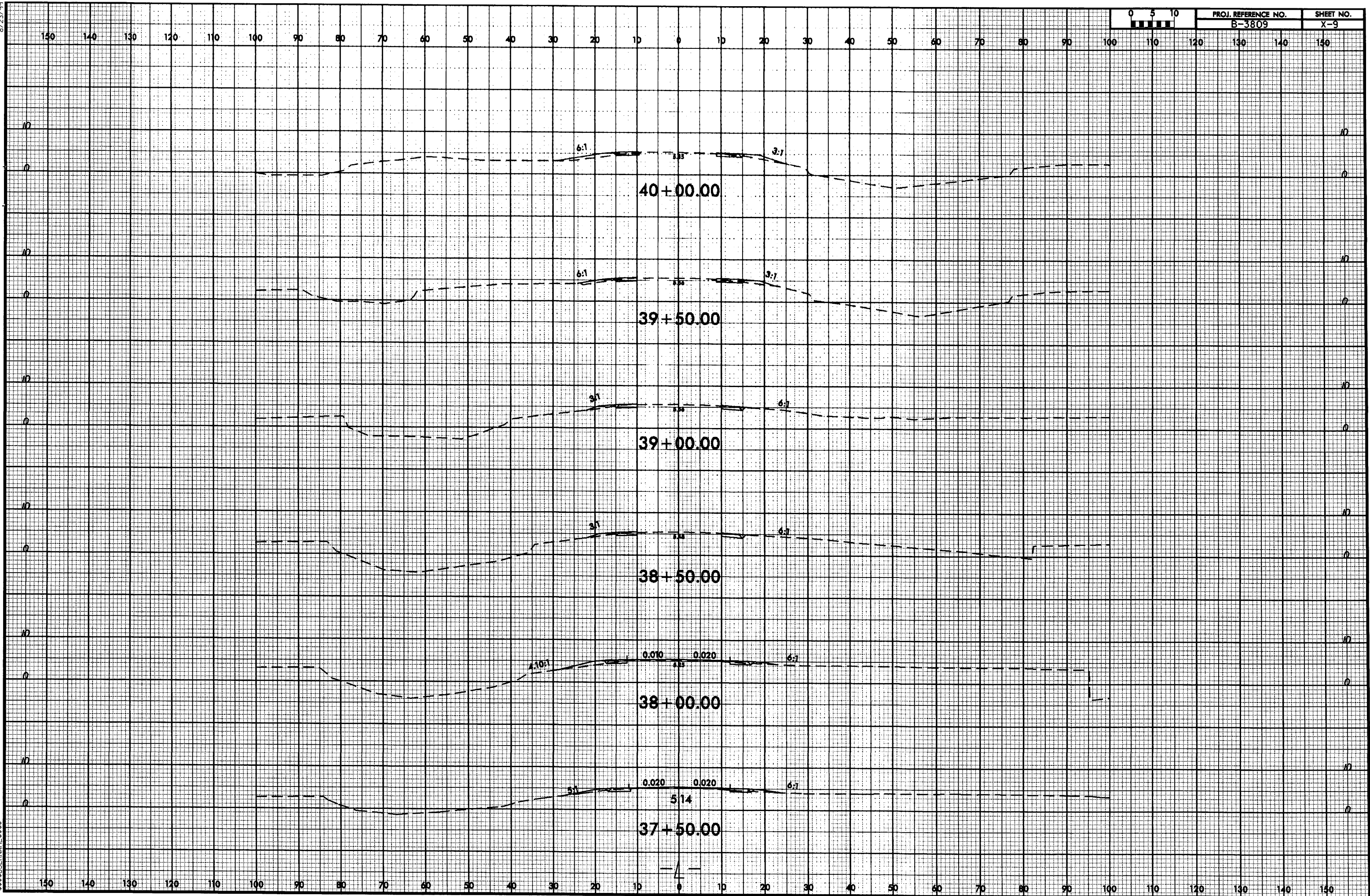




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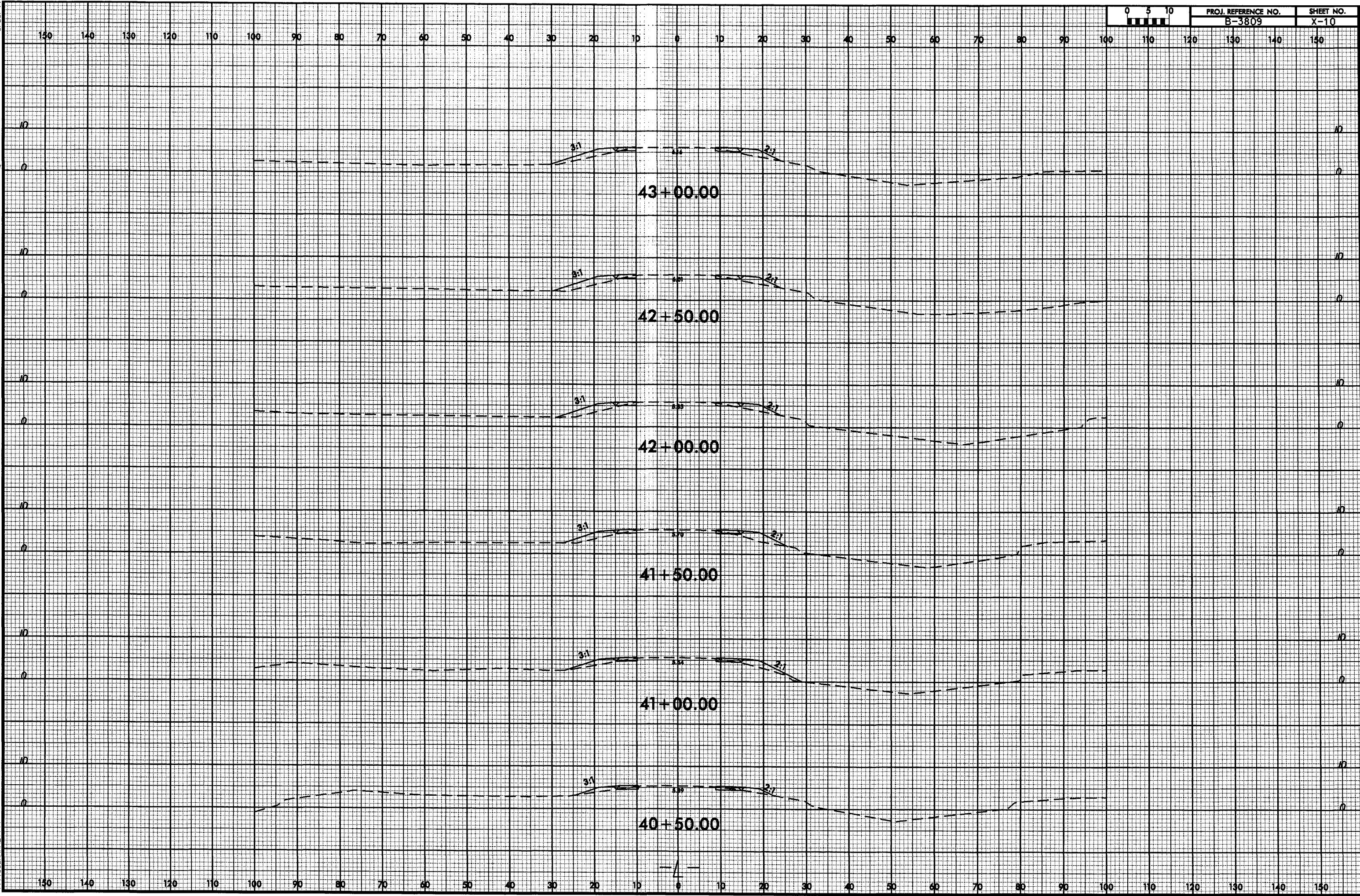
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8/23/99

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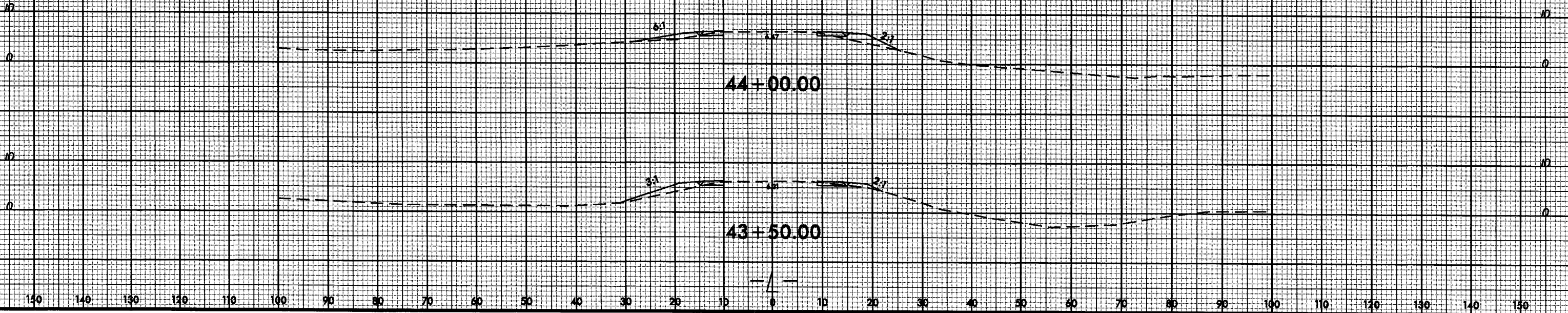
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PROJ. REFERENCE NO.
B-3809

SHEET NO.
X-11

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RECEIVED

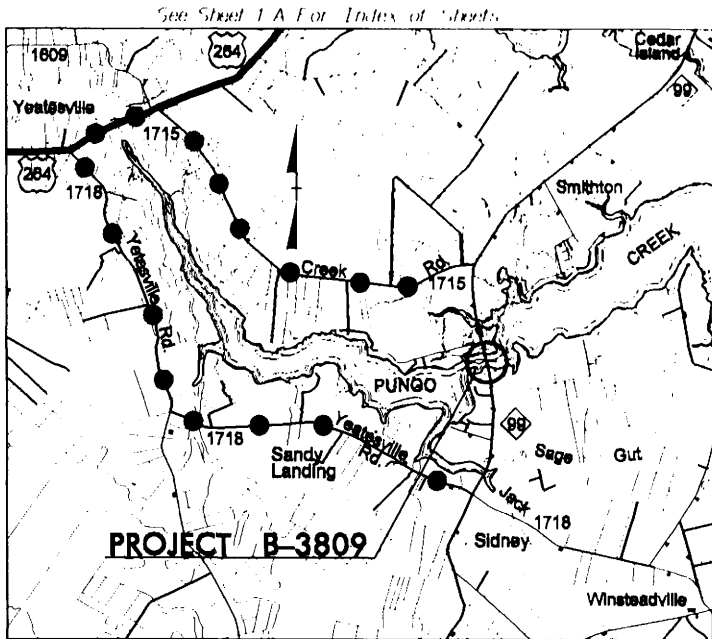
MAY 20 2009

DIVISION OF HIGHWAYS
PDEA-OFFICE OF NATURAL ENVIRONMENT

15-MAY-2009 17:13
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CONTRACT:

TIP PROJECT: B-3809



DETOUR ROUTE

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

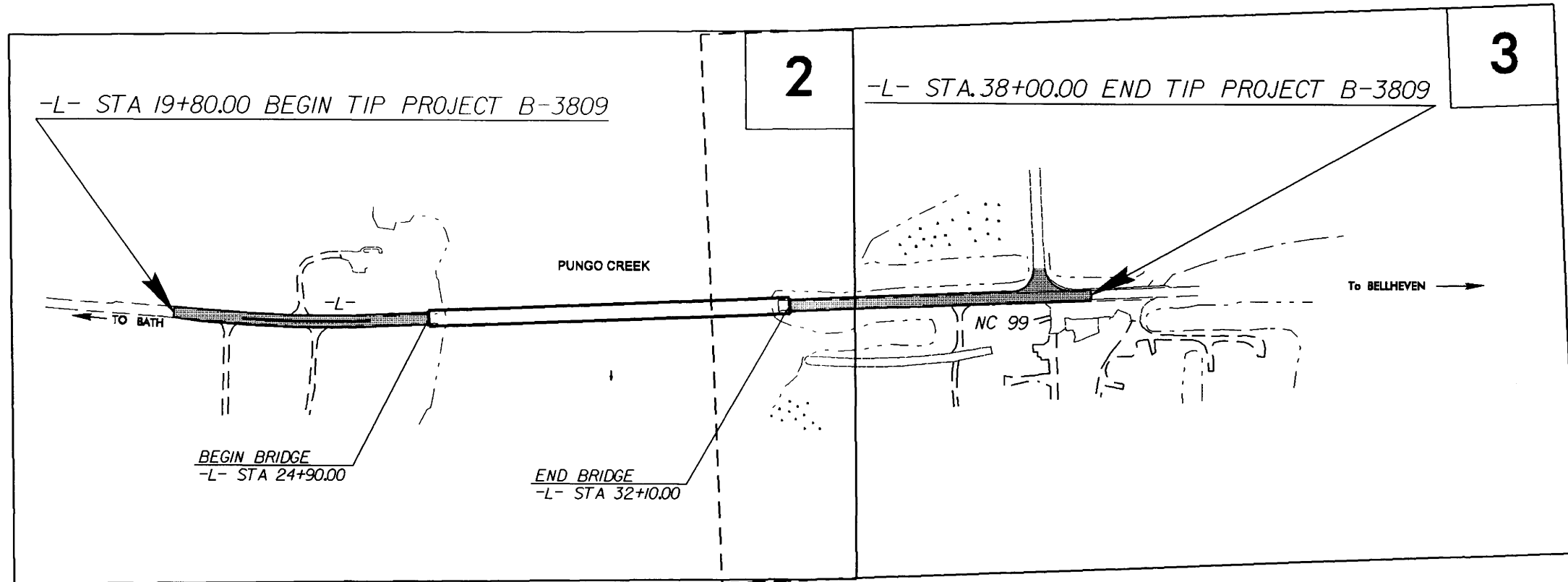
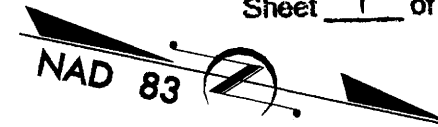
BEAUFORT COUNTY

LOCATION: BRIDGE 64 OVER PUNGO CREEK ON NC 99

TYPE OF WORK: INSTALL U/G UTILITIES CABLE LINES

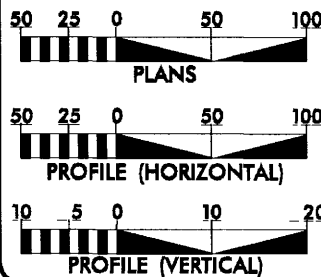
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-3809	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
33264.1.1	BRSTP - 99 (2)	PE	

Utility
Permit Drawing
Sheet 1 of 5



CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD

GRAPHIC SCALES



DESIGN DATA

ADT 2007 = 3,370
ADT 2025 = 5,100
DHV = 10 %
D = 60 %
T = 2 % *
V = 60 MPH
* TTST 3 DUAL 6

PROJECT LENGTH

LENGTH OF ROADWAY TIP PROJECT B-3809 = 0.209 MILES
LENGTH OF STRUCTURE TIP PROJECT B-3809 = 0.136 MILES
TOTAL LENGTH OF STATE PROJECT B-3809 = 0.345 MILES

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

2006 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
FEBRUARY 20, 2009

LETTING DATE:
FEBRUARY 16, 2010

TED S. WALLS
PROJECT ENGINEER

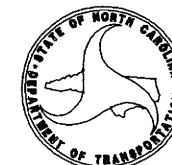
ALLISON K. WHITE
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: _____
ROADWAY DESIGN
ENGINEER

SIGNATURE: _____
STATE HIGHWAY DESIGN ENGINEER

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA



STATE HIGHWAY DESIGN ENGINEER

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

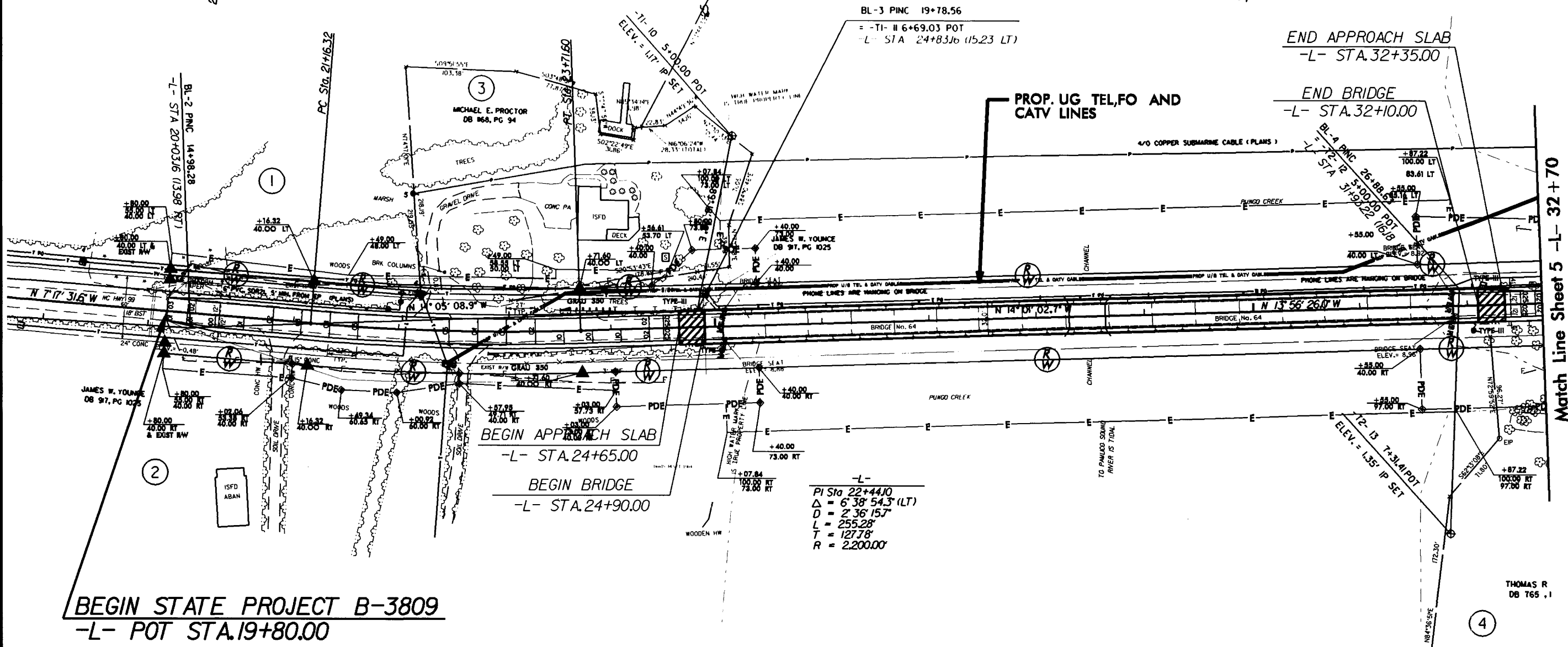
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B-3809-2-rdy-ph-dgn

PROJECT REFERENCE NO. B-3809		SHEET NO. 2	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION			

Utility
Permit Drawing
Sheet **2** of **5**

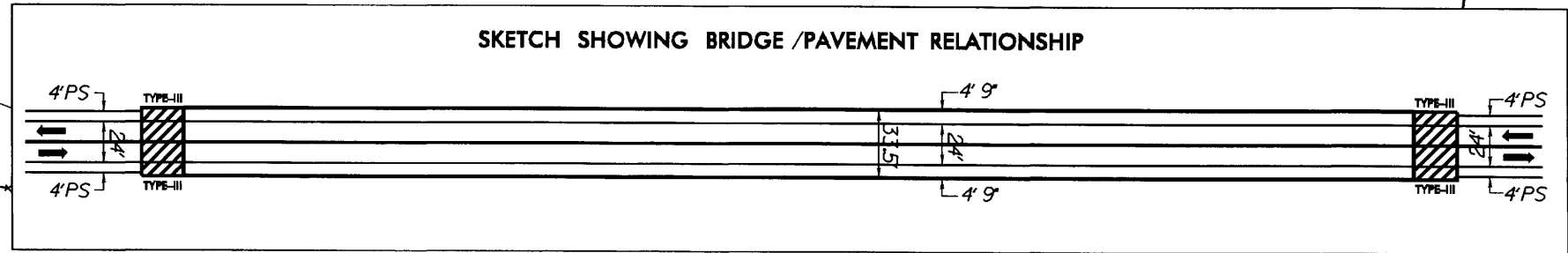


SEE SHEET 6 FOR PROFILE

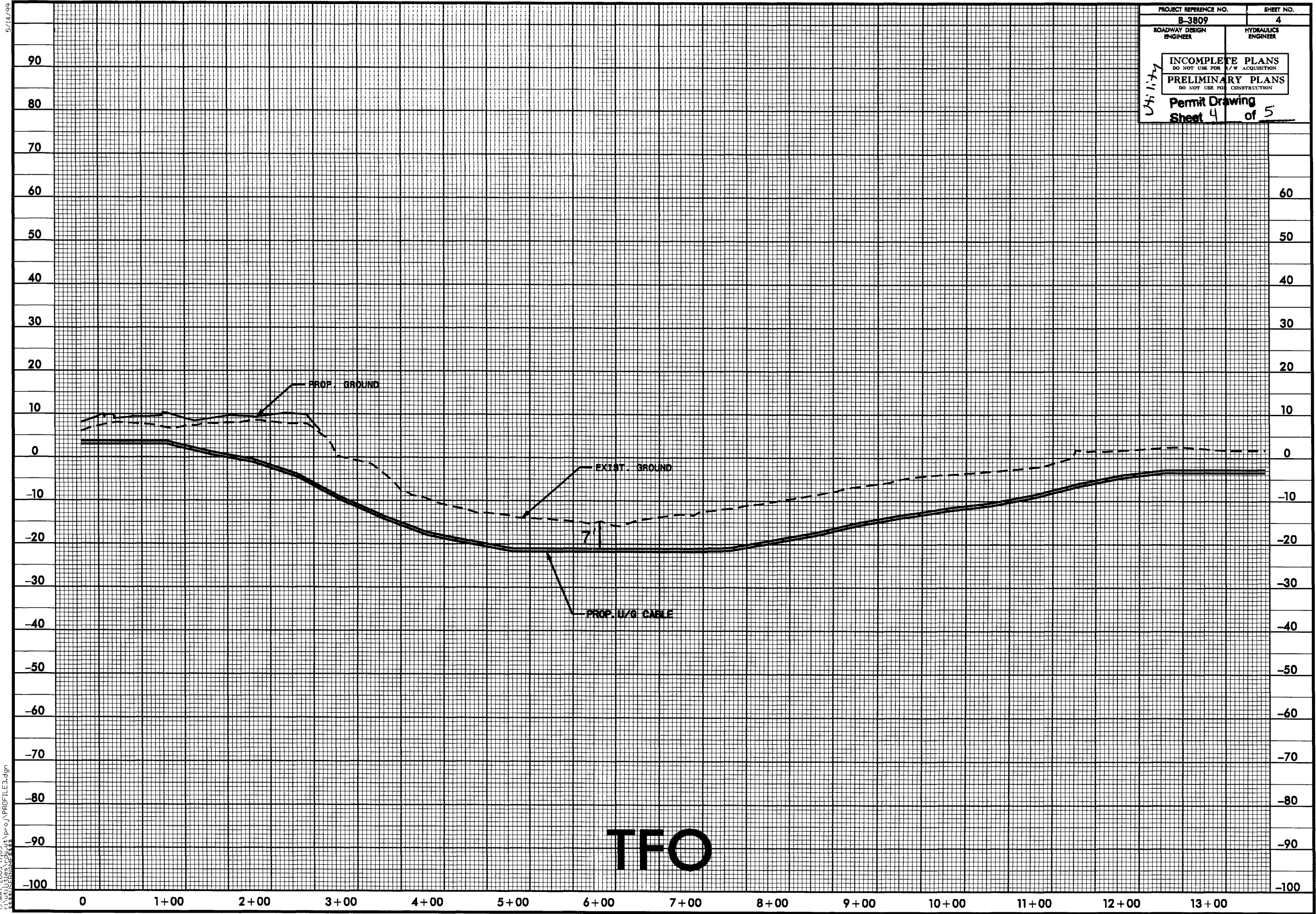


Match Line Sheet 5 -L- 32+70

SKETCH SHOWING BRIDGE /PAVEMENT RELATIONSHIP



PROJECT REFERENCE NO.		SHEET NO.	
B-3809		4	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR A/W ACQUISITION		PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	
Permit Drawing Sheet 4 of 5			



5/14/99
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14-MAY-2009 16:12
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