



PAT McCrory
Governor

NICHOLAS J. TENNYSON
Secretary

November 21, 2016

U. S. Army Corps of Engineers
Regulatory Field Office
69 Darlington Ave
Wilmington, NC 28403

Attention: Ms. Liz Hair
NCDOT Coordinator

Subject: **Application for Section 10, Section 404 Nationwide Permits 12, 23 and Section 401 Water Quality Certification** for replacement of Bridge Nos. 171 and 172 over the South River on SR 1851/1426 (Faircloth Road), Cumberland and Sampson Counties, North Carolina, Federal Aid Project No. BRZ-1851(3), TIP No. B-4950.

Debit \$240.00 from WBS Element No. 40108.1.1

Dear Madam,

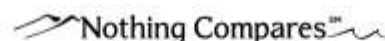
The North Carolina Department of Transportation (NCDOT) proposes to replace existing Bridge Nos. 171 and 172 in Cumberland and Sampson Counties. Bridge No. 171 is a 91-foot bridge to be replaced with a 120-foot bridge. Bridge No. 172 is a 151-foot bridge to be replaced with a 185-foot bridge. The new bridges will be placed on existing alignment. The new bridges will include two 10-foot lanes in each direction and 6-foot shoulders on each side. Traffic will be detoured offsite.

Please find enclosed the Pre-Construction Notification (PCN) form, DMS Acceptance Letter stormwater management plan, permit drawings, utility permit drawings, and roadway design plans for the above referenced project. A Programmatic Categorical Exclusion (PCE) was completed for this project on February 24, 2016, and distributed shortly thereafter. Additional copies are available at the NCDOT website: <https://connect.ncdot.gov/resources/Environmental/>

The proposed let date for the project is May 16, 2017 with a review date of March 28, 2017. However, the let date may advance as additional funds become available.

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 the project be authorized by a NW 23 for bridge construction. We are also requesting issuance of NW 12 for utility pole and line installation.




Section 10 Permit: South River is listed as a Section 10 water. NCDOT is requesting a Section 10 permit.

Section 401 Permit: We anticipate 401 General Certification numbers 3884 and 3891 will apply to this project. NCDOT is requesting written concurrence from the North Carolina Department of Environmental Quality, Division of Water Resources.

A copy of this permit application and its distribution list will be posted at the NCDOT website at <https://connect.ncdot.gov/resources/Environmental/>. Should you have any questions regarding this information, please contact Deanna Riffey at (919) 707-6151 or driffey@ncdot.gov

Sincerely,


for Philip S. Harris III, P.E., C.P.M.
Natural Environment Section Head

cc: NCDOT Permit Application Standard Distribution List



Office Use Only:
Corps action ID no. _____
DWQ project no. _____
Form Version 1.4 January 2009

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 checked="" type="checkbox"/> Section 10 Permit
1b. Specify Nationwide Permit (NWP) number: 23 12 or General Permit (GP) number:		
1c. Has the NWP or GP number been verified by the Corps?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
1d. Type(s) of approval sought from the DWQ (check all that apply): <input checked="" type="checkbox"/> 401 Water Quality Certification – Regular <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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No	For the record only for Corps Permit: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
1f. Is payment into a mitigation bank or in-lieu fee program proposed for mitigation of impacts? If so, attach the acceptance letter from mitigation bank or in-lieu fee program.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
1g. Is the project located in any of NC's twenty coastal counties. If yes, answer 1h below.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
1h. Is the project located within a NC DCM Area of Environmental Concern (AEC)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

2. Project Information

2a. Name of project:	Replacement of Bridges 171 and 172 on SR 1851/1426 (Faircloth Bridge Road) over South River
2b. County:	Cumberland / Sampson
2c. Nearest municipality / town:	Stedman
2d. Subdivision name:	<i>not applicable</i>
2e. NCDOT only, T.I.P. or state project no:	B-4950

3. Owner Information

3a. Name(s) on Recorded Deed:	North Carolina Department of Transportation
3b. Deed Book and Page No.	<i>not applicable</i>
3c. Responsible Party (for LLC if applicable):	<i>not applicable</i>
3d. Street address:	1598 Mail Service Center
3e. City, state, zip:	Raleigh, NC 27699-1598
3f. Telephone no.:	(919) 707-6151
3g. Fax no.:	(919) 212-5785
3h. Email address:	driffey@ncdot.gov

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

B. Project Information and Prior Project History	
1. Property Identification	
1a. Property identification no. (tax PIN or parcel ID):	<i>not applicable</i>
1b. Site coordinates (in decimal degrees):	Latitude: 35.0527 (DD.DDDDDD) Longitude: - 78.6566 (-DD.DDDDDD)
1c. Property size:	14.5 acres
2. Surface Waters	
2a. Name of nearest body of water (stream, river, etc.) to proposed project:	South River
2b. Water Quality Classification of nearest receiving water:	C-SW
2c. River basin:	Cape Fear
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: Land use within the vicinity is agriculture, low density residential housing, and forested areas.	
3b. List the total estimated acreage of all existing wetlands on the property: 3.5 acres	
3c. List the total estimated linear feet of all existing streams (intermittent and perennial) on the property: 147 linear feet	
3d. Explain the purpose of the proposed project: Both bridges are considered structurally deficient and is functionally obsolete due to structure and substructure conditions.	
3e. Describe the overall project in detail, including the type of equipment to be used: The project involves replacement of existing Bridge No. 171, a 91-foot 3 span bridge, with a 120-foot 3 span bridge and Bridge No. 172, a 151-foot 5 span bridge, with a 185-foot 5 span bridge. Both new bridges will have 10-foot travel lanes in each direction with 6-foot shoulders on each side. The new bridges will be placed on the same alignment as the existing bridges. Traffic will be detoured offsite. 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 checked="" type="checkbox"/> Preliminary <input type="checkbox"/> Final
4c. If yes, who delineated the jurisdictional areas? Name (if known): John Merritt	Agency/Consultant Company: NCDOT Other:
4d. If yes, list the dates of the Corps jurisdictional determinations or State determinations and attach documentation. 5/18/2011	
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 checked="" 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	2f. Area of impact (acres)	
Site 1/2 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Fill	Riverine Swamp Forest	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	<0.01	
Site 1/2 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Excavation	Riverine Swamp Forest	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	<0.01	
Site 1/2 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Mechanized Clearing	Riverine Swamp Forest	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	0.01	
Site 2 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Fill	Riverine Swamp Forest	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	0.14	
Site 2 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Mechanized Clearing	Riverine Swamp Forest	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	0.06	
Site 2/3 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Fill	Riverine Swamp Forest	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	<0.01	
Site 2/3 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Excavation	Riverine Swamp Forest	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	0.01	
Site 2/3 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Mechanized Clearing	Riverine Swamp Forest	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	0.02	
Site 3 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Fill	Riverine Swamp Forest	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	0.03	
Site 3 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Mechanized Clearing	Riverine Swamp Forest	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	0.03	
2g. Total wetland impacts					0.32 ac Permanent 0 ac Temporary	
2h. Comments: Bridge Hand clearing: Site 1/2 = 0.03 acres and Site 2/3 = 0.18 acres. Utilities Hand Clearing: Site1 = 0.10 acres, Site2 = 0.08 acres, and Site 3 = 0.05 acres for poles/lines.						
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 1/2 <input type="checkbox"/> P <input checked="" type="checkbox"/> T	Bridge171	South River	<input checked="" type="checkbox"/> PER <input type="checkbox"/> INT	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	110	80
Site 2/3 <input type="checkbox"/> P <input checked="" type="checkbox"/> T	Bridge172	South River	<input checked="" type="checkbox"/> PER <input type="checkbox"/> INT	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	110	48
3h. Total stream and tributary impacts						0 ft Perm 128 ft Temp
3i. Comments: Bents: Bridge #171 = <0.01 acres and Bridge #172 = <0.01 acres						

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				X Permanent X Temporary

4g. Comments:

5. Pond or Lake Construction

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

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

5g. Comments:

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

6. Buffer Impacts (for DWQ)

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


6a. Project is in which protected basin?			<input 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: Buffer impacts for this project are less than 40 linear feet for the road crossings and are exempt.					

D. Impact Justification and Mitigation		
1. Avoidance and Minimization		
1a. Specifically describe measures taken to avoid or minimize the proposed impacts in designing project. Replace in place was incorporated to minimize water resources impacts along with lengthening both bridges and grassed shoulder section were incorporated to diffuse runoff along the slopes and to facilitate infiltration. Other than no build the minimal effects to the wetlands and stream on this project is unavoidable.		
1b. Specifically describe measures taken to avoid or minimize the proposed impacts through construction techniques. NCDOT Best Management Practices for Construction and Maintenance Activities will be employed.		
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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No If no, explain:	
2b. If yes, mitigation is required by (check all that apply):	<input type="checkbox"/> DWQ <input checked="" type="checkbox"/> Corps	
2c. If yes, which mitigation option will be used for this project?	<input type="checkbox"/> Mitigation bank <input checked="" 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 checked="" type="checkbox"/> Yes	
4b. Stream mitigation requested:	0	
4c. If using stream mitigation, stream temperature:	<input checked="" type="checkbox"/> warm <input type="checkbox"/> cool <input type="checkbox"/> cold	
4d. Buffer mitigation requested (DWQ only):	square feet	
4e. Riparian wetland mitigation requested:	0.32 acres	
4f. Non-riparian wetland mitigation requested:	acres	
4g. Coastal (tidal) wetland mitigation requested:	acres	
4h. Comments:		
5. Complete if Using a Permittee Responsible Mitigation Plan		
5a. If using a permittee responsible mitigation plan, provide a description of the proposed mitigation plan.		

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

E. Stormwater Management and Diffuse Flow Plan (required by DWQ)	
1. Diffuse Flow Plan	
1a. Does the project include or is it adjacent to protected riparian buffers identified within one of the NC Riparian Buffer Protection Rules?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
1b. If yes, then is a diffuse flow plan included? If not, 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 attached permit drawings.	
2e. Who will be responsible for the review of the Stormwater Management Plan?	<input type="checkbox"/> Certified Local Government <input type="checkbox"/> DWQ Stormwater Program <input checked="" 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 N/A
4. DWQ Stormwater Program Review	
4a. Which of the following state-implemented stormwater management programs apply (check all that apply):	<input type="checkbox"/> Coastal counties <input type="checkbox"/> HQW <input type="checkbox"/> ORW <input type="checkbox"/> Session Law 2006-246 <input type="checkbox"/> Other:
4b. Has the approved Stormwater Management Plan with proof of approval been attached?	<input type="checkbox"/> Yes <input type="checkbox"/> No N/A
5. DWQ 401 Unit Stormwater Review	
5a. Does the Stormwater Management Plan meet the appropriate requirements?	<input type="checkbox"/> Yes <input type="checkbox"/> No N/A
5b. Have all of the 401 Unit submittal requirements been met?	<input type="checkbox"/> Yes <input type="checkbox"/> No N/A

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

5. Endangered Species and Designated Critical Habitat (Corps Requirement)		
5a. Will this project occur in or near an area with federally protected species or habitat?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
5b. Have you checked with the USFWS concerning Endangered Species Act impacts?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
5c. If yes, indicate the USFWS Field Office you have contacted.	<input checked="" type="checkbox"/> Raleigh <input type="checkbox"/> Asheville	
5d. What data sources did you use to determine whether your site would impact Endangered Species or Designated Critical Habitat? USFWS county list and NCNHP database along with field surveys. Surveys last conducted for Pondberry and Michaux's sumac on July 20, 2016. Habitat is present, but no Pondberry or Michaux's sumac were found during survey. Biological conclusion is No Effect. Habitat was not found in the study area for American chaffseed, red-cockaded woodpecker, rough-leaved loosestrife, and Saint Francis' satyr butterfly. Biological conclusion is No Effect.		
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? NMFS County Index		
7. Historic or Prehistoric Cultural Resources (Corps Requirement)		
7a. Will this project occur in or near an area that the state, federal or tribal governments have designated as having historic or cultural preservation status (e.g., National Historic Trust designation or properties significant in North Carolina history and archaeology)?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> 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?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
8b. If yes, explain how project meets FEMA requirements: NCDOT Hydraulics Unit coordination with FEMA		
8c. What source(s) did you use to make the floodplain determination? FEMA Maps		
for <u>Philip S. Harris III, P.E., C.P.M.</u> Applicant/Agent's Printed Name	 Applicant/Agent's Signature <small>(Agent's signature is valid only if an authorization letter from the applicant is provided.)</small>	<u>11-21-2016</u> Date



PAT MCCRORY
Governor

DONALD R. VAN DER VAART
Secretary

November 4, 2016

Mr. Philip S. Harris, III, P.E., CPM
Project Development and Environmental Analysis Unit
North Carolina Department of Transportation
1598 Mail Service Center
Raleigh, North Carolina 27699-1598

Dear Mr. Harris:

Subject: Mitigation Acceptance Letter:

B-4950, Replace Bridges 171 and 172 on SR 1851 / SR 1426 (Faircloth Bridge Road)
over the South River, Cumberland County

The purpose of this letter is to notify you that the Division of Mitigation Services (DMS) will provide the compensatory wetland mitigation for the subject project. Based on the information supplied by you on November 3, 2016, the impacts are located in CU 03030006 of the Cape Fear River basin in the Southern Inner Coastal Plain (SOCP) Eco-Region, and are as follows:

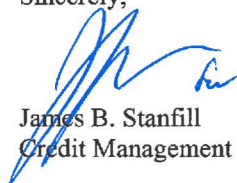
Cape Fear 03030006 SICP	Stream			Wetlands			Buffer (Sq. Ft.)	
	Cold	Cool	Warm	Riparian	Non- Riparian	Coastal Marsh	Zone 1	Zone 2
Impacts (feet/acres)	0	0	0	0.32	0	0	0	0

*Some of the stream and/or wetland impacts may be proposed to be mitigated at a 1:1 mitigation ratio. See permit application for details.

The impacts and associated mitigation needs were under projected by the NCDOT in the 2016 impact data. DMS will commit to implement sufficient compensatory wetland mitigation credits to offset the impacts associated with this project as determined by the regulatory agencies using the delivery timeline listed in Section F.3.c.iii of the In-Lieu Fee Instrument dated July 28, 2010. If the above referenced impact amounts are revised, then this mitigation acceptance letter will no longer be valid and a new mitigation acceptance letter will be required from DMS.

If you have any questions or need additional information, please contact Beth Harmon at 919-707-8420.

Sincerely,



James B. Stanfill
Credit Management Supervisor

cc: Ms. Liz Hair, USACE – Wilmington Regulatory Field Office
Ms. Amy Chapman, NCDWR
File: B-4950



North Carolina Department of Transportation

Highway Stormwater Program
STORMWATER MANAGEMENT PLAN
FOR NCDOT PROJECTS

(Version 2.06; Released June 2016)

WBS Element:	40108.1.1	TIP No.:	B-4950	County(ies):	Cumberland Sampson	Page	1	of	2
General Project Information									
WBS Element:	40108.1.1	TIP Number:	B-4950	Project Type:	Bridge Replacement	Date:	11/9/2016		
NCDOT Contact:	Paul Atkinson			Contractor / Designer:	Richard Bollinger, PE Will Weathersbee, PE				
Address:	1020 Birch Ridge Rd. Raleigh, NC 27610			Address:	8601 Six Forks Road, Suite 260 Raleigh, NC 27615				
	Phone: 919-707-6707				Phone: 919-480-4066				
	Email: patkinson@ncdot.gov				Email: richard.bollinger@rsandh.com will.weathersbee@rsandh.com				
City/Town:	Stedman			County(ies):	Cumberland	Sampson			
River Basin(s):	Cape Fear			CAMA County?	No	No			
Wetlands within Project Limits?	Yes								
Project Description									
Project Length (lin. miles or feet):	0.20		Surrounding Land Use:	Woods, Residential					
	Proposed Project			Existing Site					
Project Built-Up Area (ac.)	0.7 ac.			0.5 ac.					
Typical Cross Section Description:	Two 10' lanes with 6' shoulders on the approach, and two 10' lanes with 5'-5" shoulders on the bridge			Two 10' lanes with no shoulder on the approach, and two 10' lanes with 2' shoulders on the bridge.					
Annual Avg Daily Traffic (veh/hr/day):	Design/Future: 1038		Year: 2037	Existing: 654		Year: 2017			
General Project Narrative: (Description of Minimization of Water Quality Impacts)	This is a bridge replacement project. Existing bridge 171 is 1@30' -4", 1@30'-1", and 1@30'-4". Existing bridge 172 is 1@30' -3", 3@30'-1", and 1@30'-3". Proposed bridge 171 is a 1@35' 21", 1@55' 24", and 1@30' 21". Proposed bridge 172 is a 1@35' 21", 2@55' 24", and 1@40' 21". To minimize impacts, grassed shoulder sections were used to diffuse roadway sheet flow runoff along the slopes and to facilitate infiltration. No deck drains were used on either bridge replacement.								
Waterbody Information									
Surface Water Body (1):	South River			NCDWR Stream Index No.:	18-68-12-(0.5)				
NCDWR Surface Water Classification for Water Body	Primary Classification:			Class C					
	Supplemental Classification:			Swamp Waters (Sw)					
Other Stream Classification:	None								
Impairments:	None								
Aquatic T&E Species?	Yes			Comments: American Alligator, Pondberry, Wood Stork, Michaux's Sumac - no impacts, no effect					
NRTR Stream ID:	South River			Buffer Rules in Effect:		N/A			
Project Includes Bridge Spanning Water Body?	Yes		Deck Drains Discharge Over Buffer?	No		Dissipator Pads Provided in Buffer?		No	
Deck Drains Discharge Over Water Body?	No		(If yes, provide justification in the General Project Narrative)			(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)			
(If yes, provide justification in the General Project Narrative)									



North Carolina Department of Transportation
Highway Stormwater Program
STORMWATER MANAGEMENT PLAN
FOR NCDOT PROJECTS



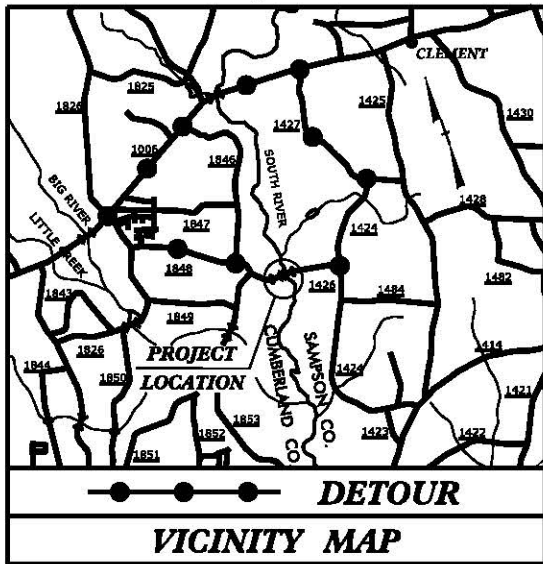
(Version 2.06; Released June 2016)

WBS Element:	40108.1.1	TIP No.:	B-4950	County(ies):	Cumberland Sampson	Page	2	of	2
Additional Waterbody Information									
Surface Water Body (2):	Ut to South River			NCDWR Stream Index No.:	18-68-12-(0.5)				
NCDWR Surface Water Classification for Water Body			Primary Classification:	Class C					
			Supplemental Classification:	Swamp Waters (Sw)					
Other Stream Classification:	None								
Impairments:	None								
Aquatic T&E Species?	Yes	Comments: American Alligator, Pondberry, Wood Stork, Michaux's Sumac - no impacts, no effect							
NRTR Stream ID:	SA1			Buffer Rules in Effect:			N/A		
Project Includes Bridge Spanning Water Body?	Yes	Deck Drains Discharge Over Buffer?	No	Dissipator Pads Provided in Buffer?			N/A		
Deck Drains Discharge Over Water Body?		No		(If yes, provide justification in the General Project Narrative)			(If yes, describe in the General Project Narrative; if no, justify in the General Project Narrative)		
(If yes, provide justification in the General Project Narrative)									

9/13/2016 R:\Hydraulics\PERMITS\Environmental\Drawings\B4950_Hyd.prm_tsh_01.dgn

TIP PROJECT: B-4950

See Sheet 1A For Index of Sheets
See Sheet 1B For Conventional Symbols
See Sheet 1C-1 For Survey Control Sheet



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

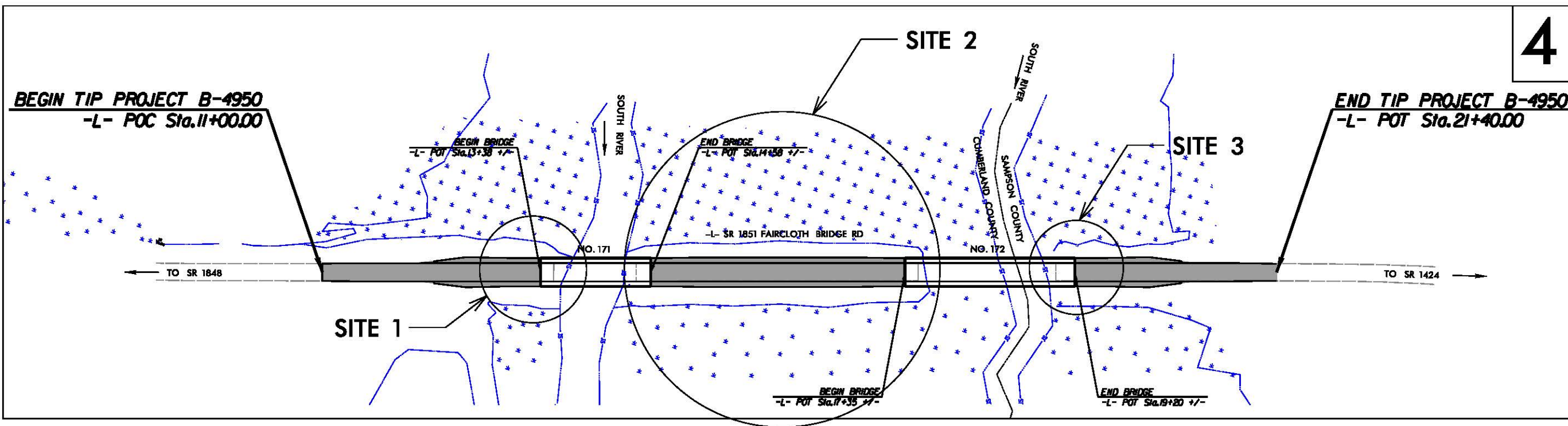
CUMBERLAND AND
SAMPSON COUNTIES

LOCATION: REPLACE BRIDGES 171 AND 172 OVER
SOUTH RIVER ON SR 1851/SR 1426
(FAIRCLOTH BRIDGE ROAD)

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

WETLAND AND SURFACE WATER IMPACTS PERMIT

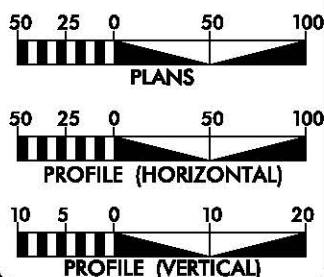
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4950	1	
STATE FUND NO.	F.A.P. PROJ. NO.	DESCRIPTION	
40108.1.1	BRZ-1851 (3)	PE	
40108.2.1	BRZ-1851 (3)	ROW, UTIL	



PERMIT DRAWING
SHEET 1 OF 10

THERE IS NO CONTROL OF ACCESS ON THIS PROJECT.
THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD ____.

GRAPHIC SCALES



DESIGN DATA

ADT 2017 = 654
ADT 2037 = 1,038
K = 10 %
D = 60 %
T = 3 % *
V = 60 MPH
*(TTST=1% + DUAL=2%)
FUNC CLASS = LOCAL
SUB-REGIONAL TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-4950 = 0.139 MILE
LENGTH STRUCTURE TIP PROJECT B-4950 = 0.058 MILE
TOTAL LENGTH TIP PROJECT B-4950 = 0.197 MILE

PLANS PREPARED BY:

RS&H

8601 SIX FORKS RD, SUITE 260
RALEIGH, NC 27615
919-926-4100

FOR THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
JULY 22, 2016

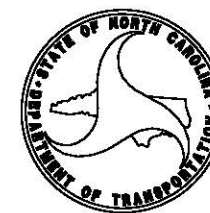
LETTING DATE:
MAY 16, 2017

JENNIFER FARINO, PE
PROJECT ENGINEER
JARED BOND, PE
PROJECT DESIGN ENGINEER
TATIA L. WHITE, PE, PLS
NCDOT CONTACT

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.
ROADWAY DESIGN
ENGINEER

SIGNATURE: _____ P.E.

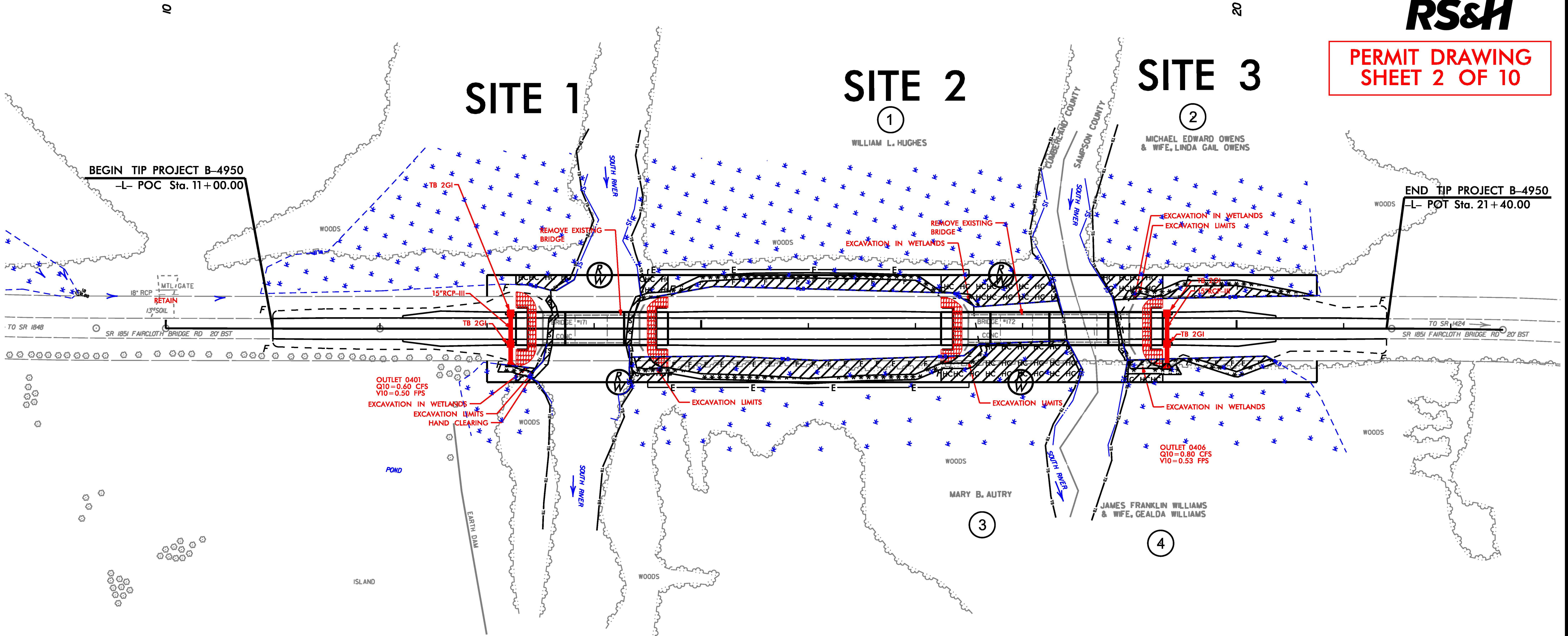
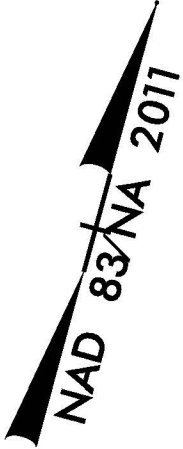


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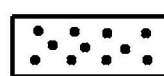
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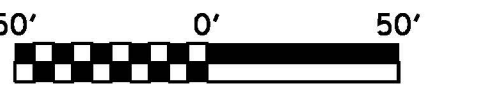
REVISIONS

PROJECT REFERENCE NO.		SHEET NO.	
B-4950		4	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
<div>INCOMPLETE PLANS</div> <div>DO NOT USE FOR R/W ACQUISITION</div>			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			



RS&H
PERMIT DRAWING
SHEET 2 OF 10

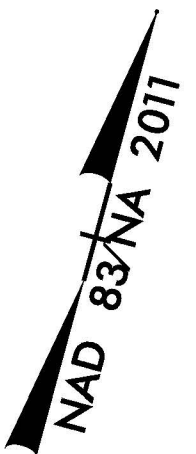
-  DENOTES EXCAVATION IN WETLANDS
-  DENOTES HAND CLEARING
-  DENOTES TEMPORARY IMPACTS IN SURFACE WATER
-  DENOTES FILL IN WETLAND
-  DENOTES MECHANIZED CLEARING



8/17/99

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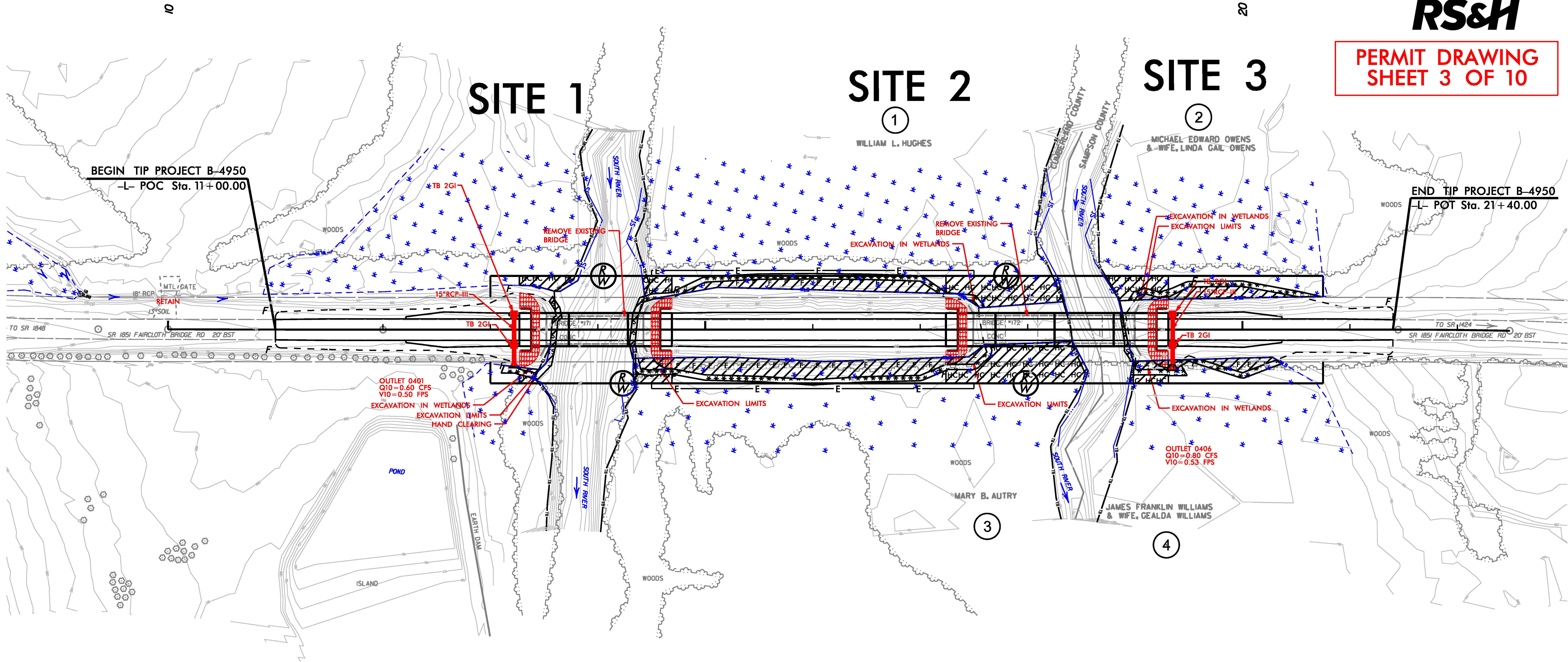
REVISIONS



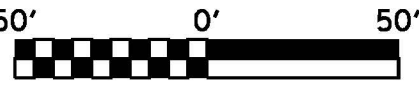
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B-4950		4	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
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DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

RS&H

PERMIT DRAWING
SHEET 3 OF 10



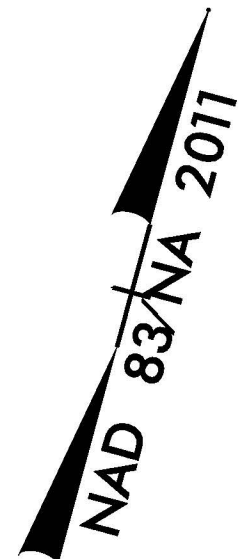
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- DENOTES HAND CLEARING
- DENOTES TEMPORARY IMPACTS IN SURFACE WATER
- DENOTES FILL IN WETLAND
- DENOTES MECHANIZED CLEARING



REVISIONS

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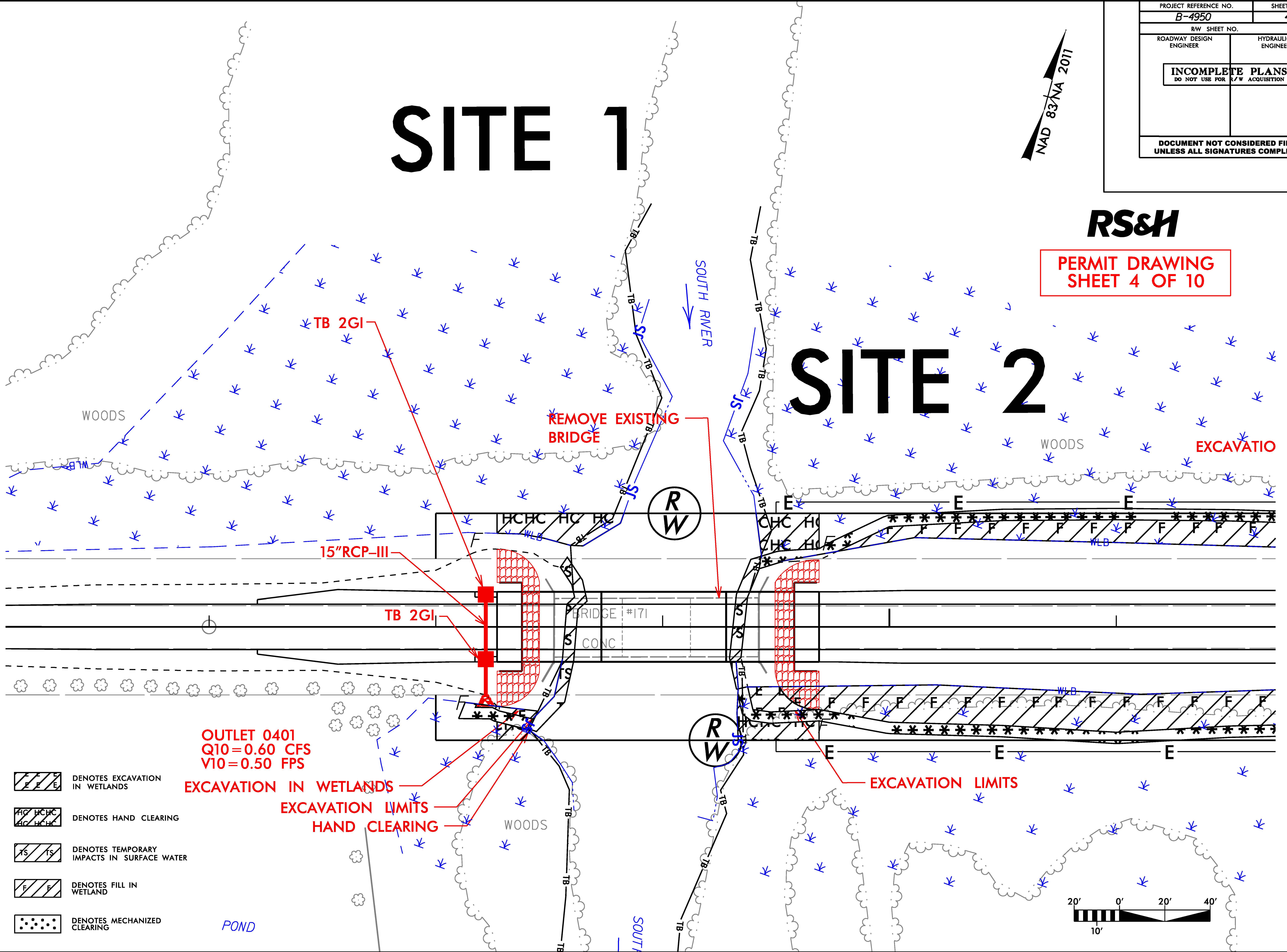
SITE 2



PROJECT REFERENCE NO.		SHEET NO.	
B-4950		4	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
<div>INCOMPLETE PLANS</div> <div>DO NOT USE FOR R/W ACQUISITION</div>			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

RS&H

**PERMIT DRAWING
SHEET 4 OF 10**

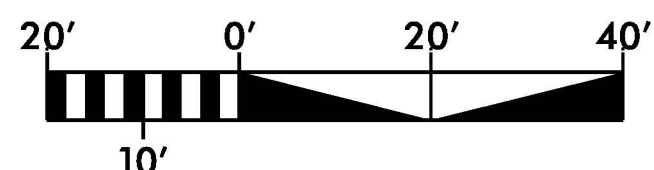


- DENOTES EXCAVATION IN WETLANDS
- DENOTES HAND CLEARING
- DENOTES TEMPORARY IMPACTS IN SURFACE WATER
- DENOTES FILL IN WETLAND
- DENOTES MECHANIZED CLEARING

OUTLET 0401
Q10=0.60 CFS
V10=0.50 FPS

EXCAVATION IN WETLANDS
EXCAVATION LIMITS
HAND CLEARING

EXCAVATION LIMITS



REVISIONS

SITE 1

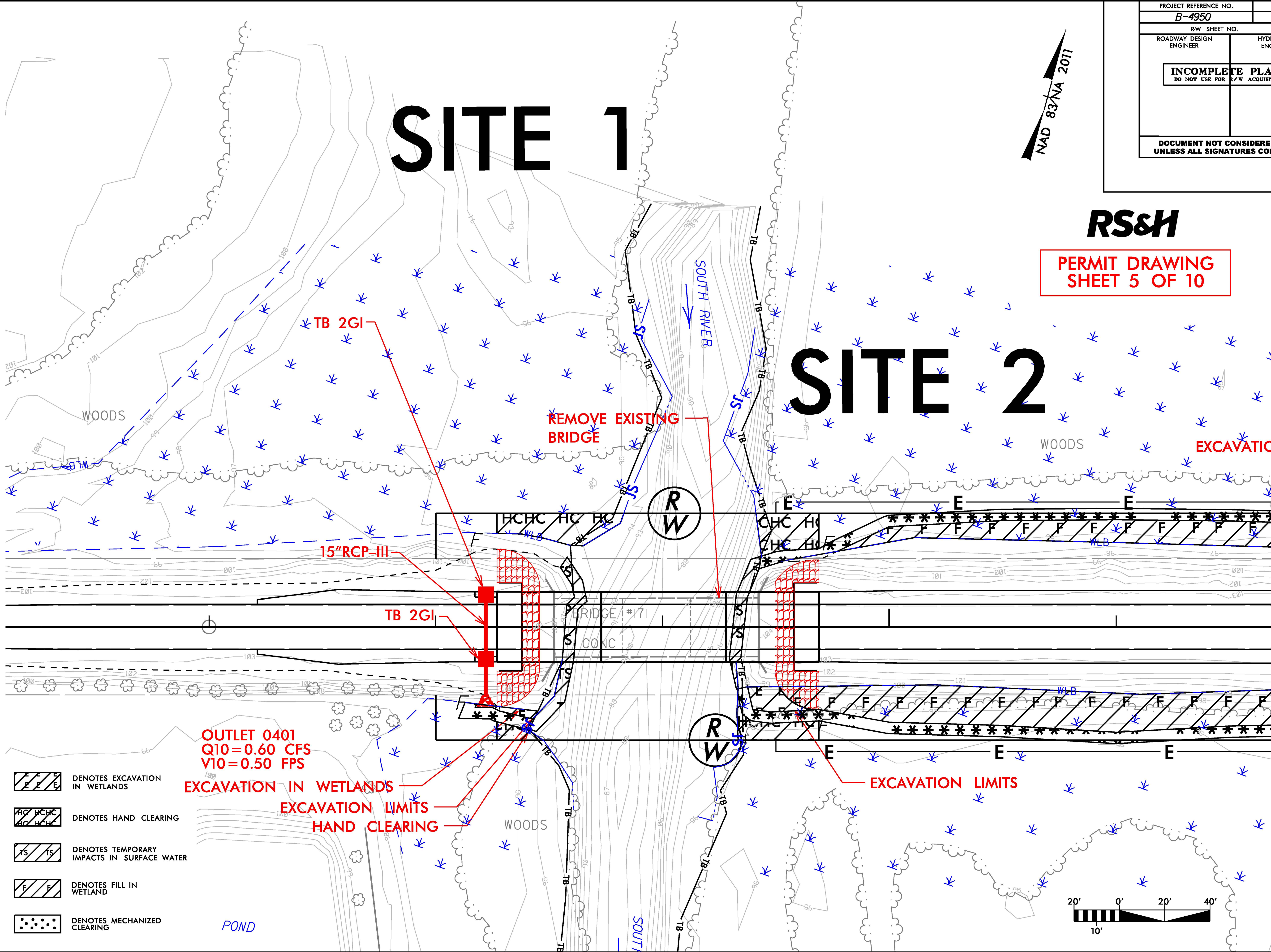
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NAD 83 NA 2011

PROJECT REFERENCE NO.	SHEET NO.
B-4950	4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR E/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

RS&H

**PERMIT DRAWING
SHEET 5 OF 10**

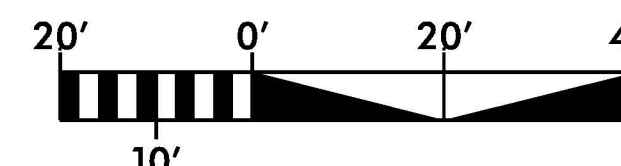


- DENOTES EXCAVATION IN WETLANDS
- DENOTES HAND CLEARING
- DENOTES TEMPORARY IMPACTS IN SURFACE WATER
- DENOTES FILL IN WETLAND
- DENOTES MECHANIZED CLEARING

OUTLET 0401
Q10=0.60 CFS
V10=0.50 FPS

EXCAVATION IN WETLANDS
EXCAVATION LIMITS
HAND CLEARING

EXCAVATION LIMITS



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REVISIONS

SITE 2

1

WILLIAM L. HUGHES

SITE 3

2

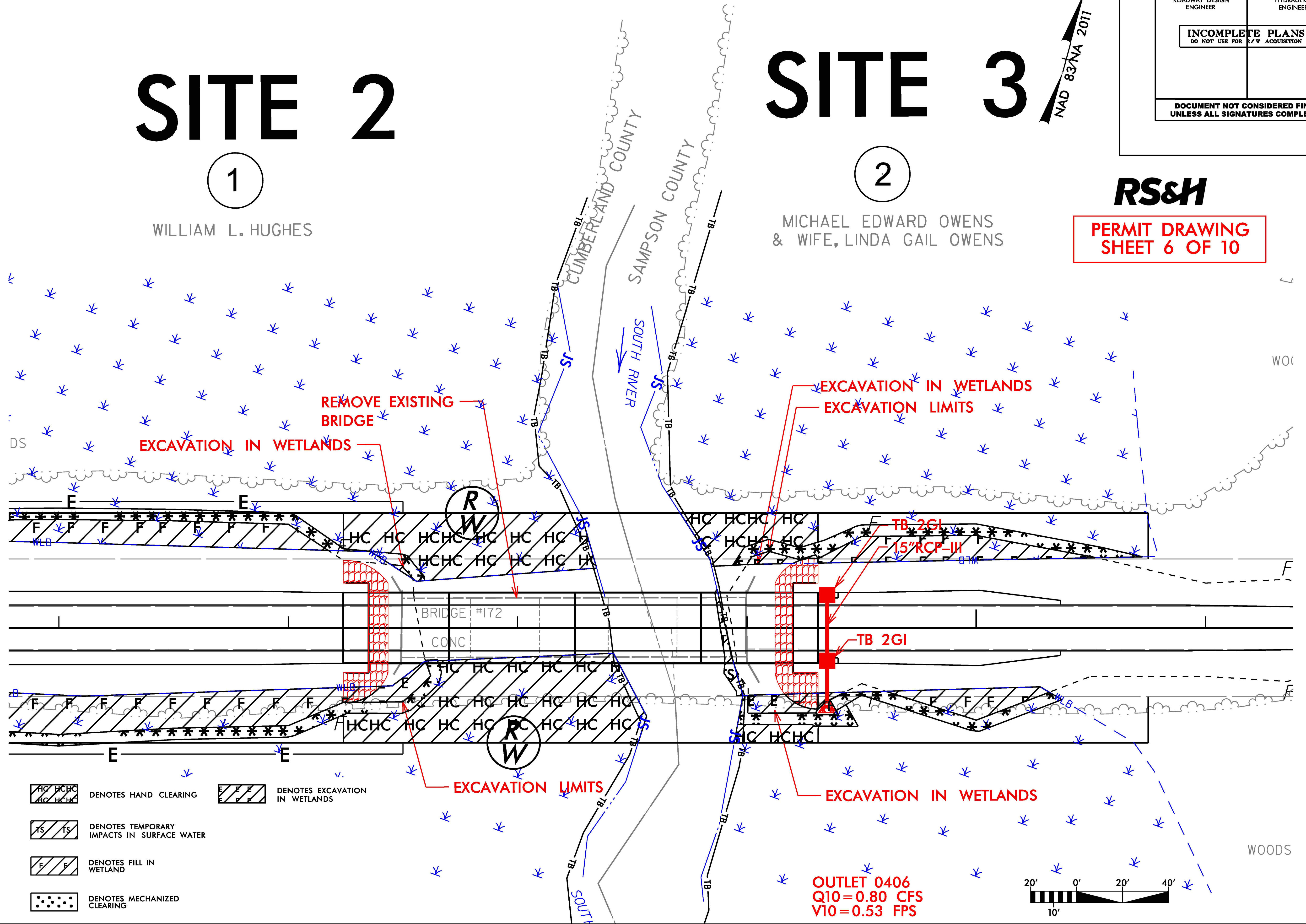
MICHAEL EDWARD OWENS
& WIFE, LINDA GAIL OWENS

NAD 83 NA 2011

PROJECT REFERENCE NO.	SHEET NO.
B-4950	4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR L/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

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PERMIT DRAWING
SHEET 6 OF 10



REVISIONS

SITE 2

1

WILLIAM L. HUGHES

SITE 3

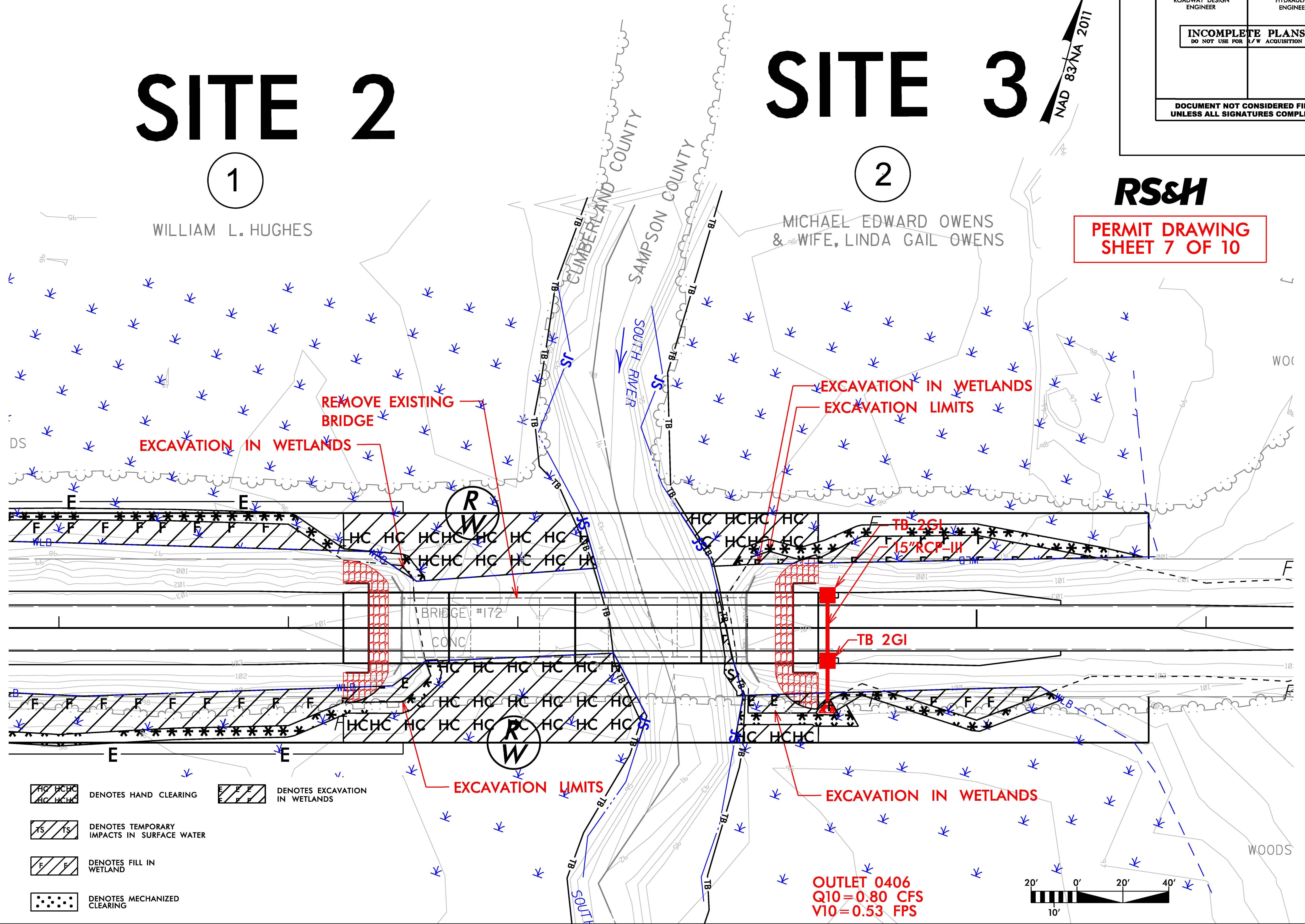
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MICHAEL EDWARD OWENS
& WIFE, LINDA GAIL OWENS

RS&H

PERMIT DRAWING
SHEET 7 OF 10

PROJECT REFERENCE NO.	SHEET NO.
B-4950	4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
INCOMPLETE PLANS DO NOT USE FOR E/W ACQUISITION	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



5/14/99

REVISIONS

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PROJECT REFERENCE NO. B-4950		SHEET NO. 5	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			



STRUCTURE HYDRAULIC DATA
DA= 203 SQ.MI.

DESIGN DISCHARGE	= 6100	CFS
DESIGN FREQUENCY	= 25	YRS
DESIGN HW ELEVATION	= 101.8	FT
BASE DISCHARGE	= 8900	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 103.6	FT
OVERTOPPING DISCHARGE	= 9700	CFS
OVERTOPPING FREQUENCY	= 100+	YRS
OVERTOPPING ELEVATION	= 104.0	FT

STRUCTURE HYDRAULIC DATA
DA= 203 SQ.MI.

DESIGN DISCHARGE	= 6100	CFS
DESIGN FREQUENCY	= 25	YRS
DESIGN HW ELEVATION	= 101.8	FT
BASE DISCHARGE	= 8900	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 103.6	FT
OVERTOPPING DISCHARGE	= 9700	CFS
OVERTOPPING FREQUENCY	= 100+	YRS
OVERTOPPING ELEVATION	= 104.0	FT

BRIDGE STA. = 13+98.00 -L-
1@35' 2" CORED SLAB, 1@55' 2" CORED SLAB,
1@30' 2" CORED SLAB, WITH 4" END BENT CAPS
SKEW = 90°
C ELEV. = 104.62'

BRIDGE STA. = 18+27.50 -L-
1@35' 2" CORED SLAB, 2@55' 2" CORED SLAB,
1@40' 2" CORED SLAB
WITH 4" END BENT CAPS
SKEW = 90°
C ELEV. = 104.70'

PI = 12+00.00
EL = 103.82'
VC = 200'
K = 286

PI = 15+95.00
EL = 105.40'
VC = 200'
K = 285

PI = 20+30.00
EL = 104.09'
VC = 200'
K = 328

BEGIN PROPOSED GRADE
-L- STA. 11+00.00
ELEV. = 104.16'

BEGIN BRIDGE
-L- STA. 13+38 +/-

END BRIDGE
-L- STA. 14+58 +/-

BEGIN BRIDGE
-L- STA. 17+35 +/-

END BRIDGE
-L- STA. 19+20 +/-

END PROPOSED GRADE
-L- STA. 21+40.00
ELEV. = 104.48'

BM #1
RAILROAD SPIKE IN 2" PINE
-L- STA 10+00.00
N 85° 11' 43.7" W DIST 196.79
ELEV. = 104.14'

NWS ELEV. = 94.2 ±

NWS ELEV. = 94.6 ±

EXCAVATE TO
ELEV. 96.0'
CLASS "II"
RIP RAP (TYP.)

EXCAVATE TO
ELEV. 96.0'
CLASS "II"
RIP RAP (TYP.)

EXCAVATE TO
ELEV. 96.0'
CLASS "II"
RIP RAP (TYP.)

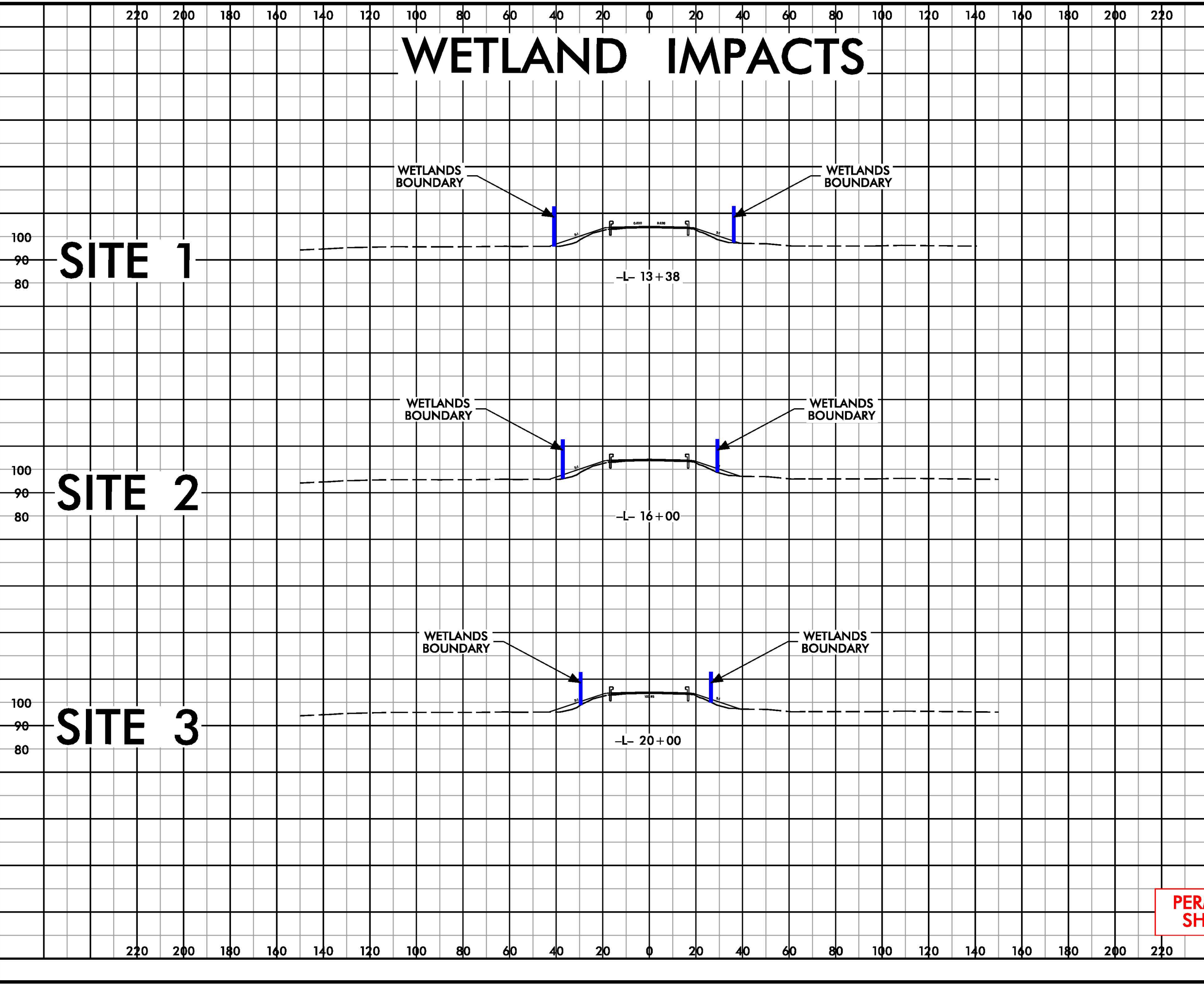
EXCAVATE TO
ELEV. 96.0'
CLASS "II"
RIP RAP (TYP.)

**PERMIT DRAWING
SHEET 8 OF 10**

FOR -L- ALIGNMENT, SEE SHEET NO. 4

5/14/99
K:\72016
B-4950\Drawings\B4950_Hyd.prm_xpl_04.dgn
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REVISIONS



PROJECT REFERENCE NO.		SHEET NO.	
B-4950			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
<div>INCOMPLETE PLANS</div> <div>DO NOT USE FOR R/W ACQUISITION</div>			
<div>DOCUMENT NOT CONSIDERED FINAL</div> <div>UNLESS ALL SIGNATURES COMPLETED</div>			

RS&H

PERMIT DRAWING
SHEET 9 OF 10

WETLAND PERMIT IMPACT SUMMARY

			WETLAND IMPACTS					SURFACE WATER IMPACTS				
Site No.	Station (From/To)	Structure Size / Type	Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
1/2	-L- 13+10 TO 14+71	Bridge 171	< 0.01		< 0.01	0.01	0.03		0.02		80	
2	-L- 14+71 TO 17+23	Roadway Fill Slope	0.14			0.06						
2/3	-L- 17+23 TO 19+33	Bridge 172	< 0.01		0.01	0.02	0.18		< 0.01		48	
3	-L- 19+33 TO 20+73	Roadway Fill Slope	0.03			0.03						
TOTALS*:			0.18		0.02	0.12	0.21		0.02		128	

*Rounded totals are sum of actual impacts

NOTES:

Proposed Bridge Impacts from SMU

Bridge 171: <.01 acres for all permanent bents. No temporary impacts will be required.

Bridge 172: <.01 acres for all permanent bents. No temporary impacts will be required.

NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
11/7/2016
Cumberland / Sampson
B-4950
40108.1.1

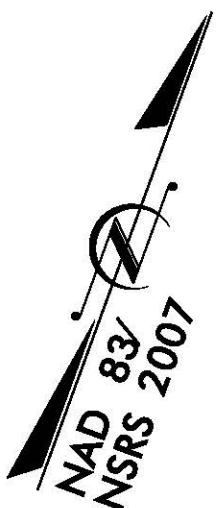
SHEET	10	OF	10
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T.I.P. NO.	SHEET NO.
B-4950	UE-1

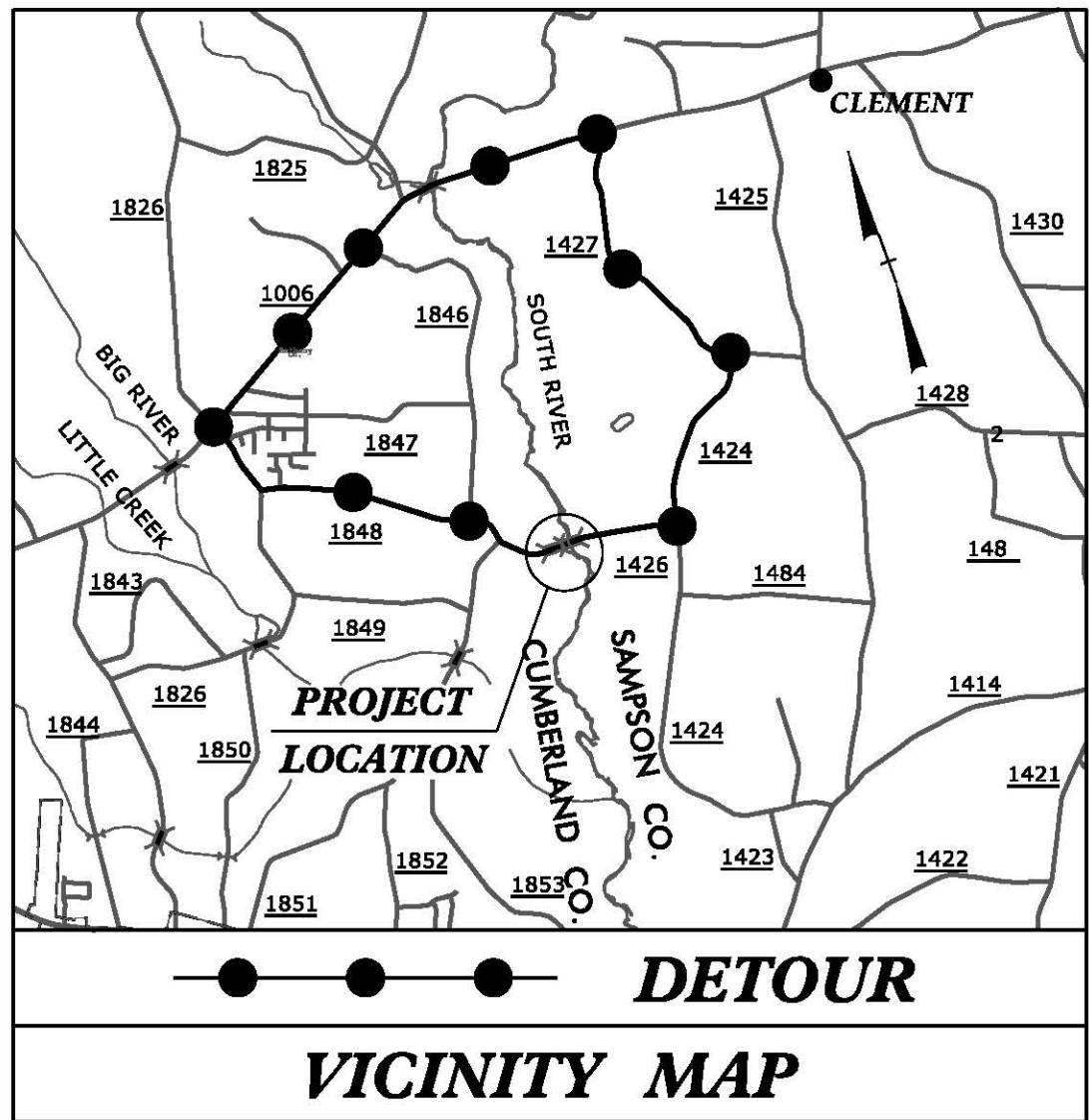


1223 Jones Franklin Road
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION



UE-2 4

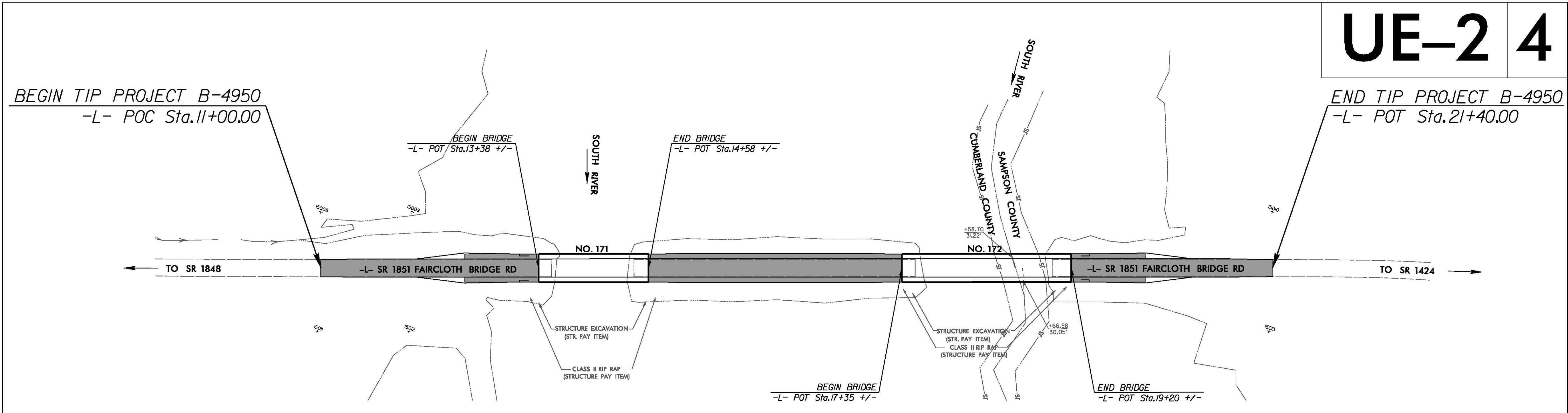


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

NEU PERMIT PLANS
CUMBERLAND AND
SAMPSON COUNTIES

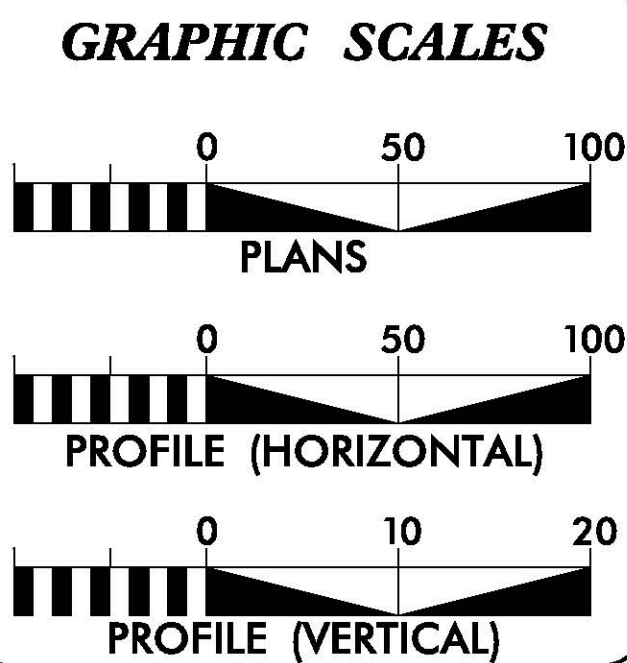
LOCATION: REPLACE BRIDGES 171 AND 172 OVER
SOUTH RIVER ON SR 1851/SR 1426
(FAIRCLOTH BRIDGE ROAD)

TYPE OF WORK: POWER LINE RELOCATION



PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

THERE IS NO CONTROL OF ACCESS ON THIS PROJECT.
THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II (MODIFIED).



INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
UE-1	TITLE SHEET
UE-2	UTILITY BY OTHERS PLAN SHEETS

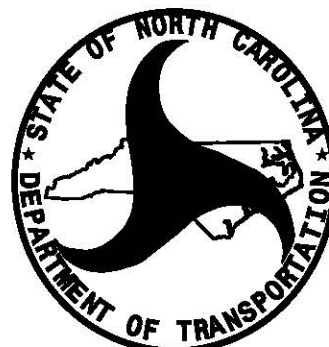
UTILITY OWNERS ON PROJECT

(A) SOUTH RIVER EMC (POWER)

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
22 JULY 2016

LETTING DATE:
16 MAY 2017



PREPARED IN THE OFFICE OF:
DIVISION OF HIGHWAYS
UTILITIES UNIT
UTILITIES ENGINEERING

1555 MAIL SERVICES CENTER
RALEIGH, NC 27609-1555
PHONE (919) 707-6690
FAX (919) 259-4151

Roger Worthington, P.E. UTILITIES SECTION ENGINEER
Bo Hemphill UTILITIES SQUAD LEADER PROJECT ENGINEER
John D. Schriner, PLS UTILITIES PROJECT DESIGNER

5/14/99

5:09:34 PM
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29-Jun-16

REVISIONS

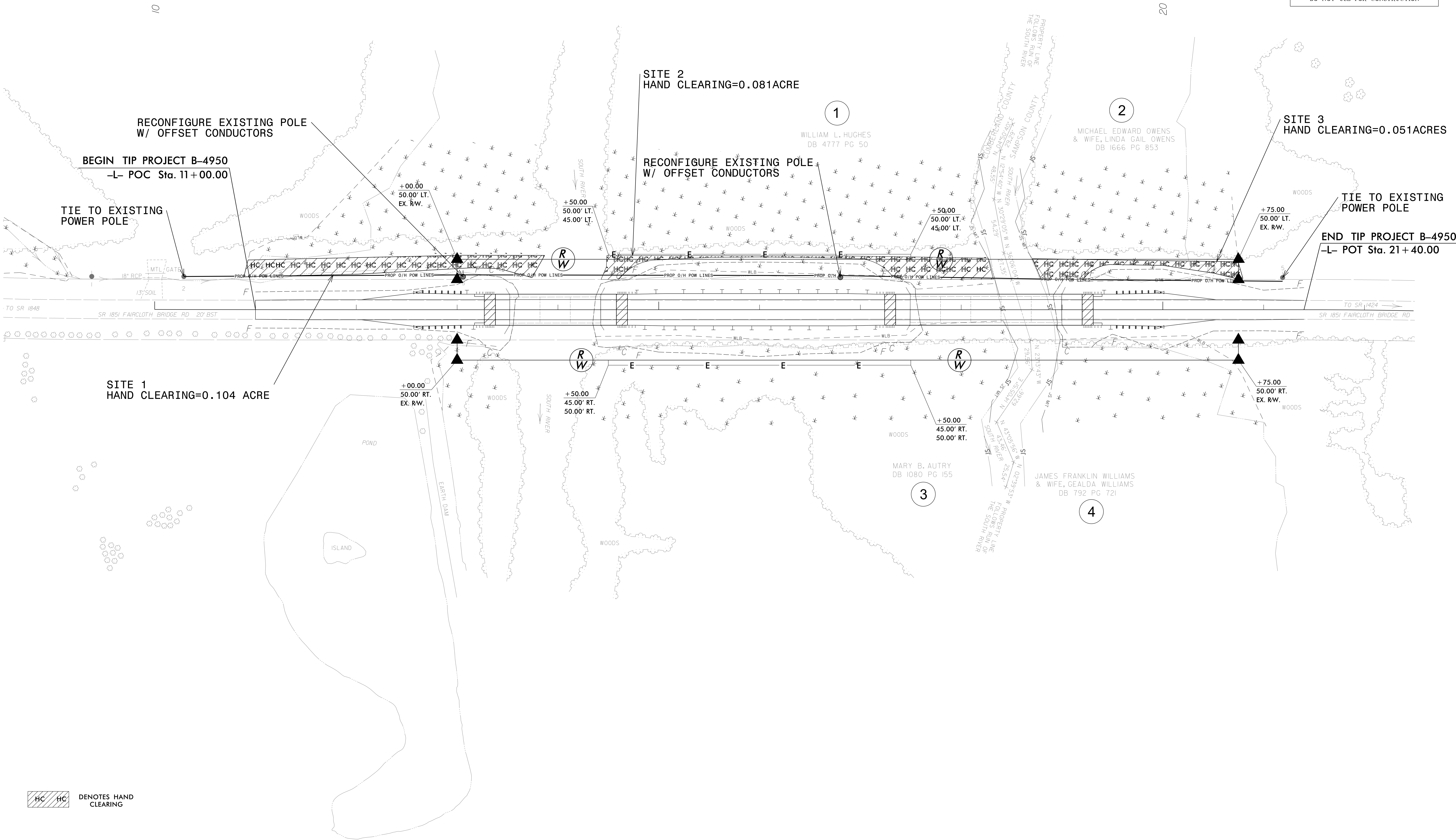
WETLAND AND SURFACE WATER IMPACTS PERMIT

PROJECT REFERENCE NO.	SHEET NO.
B-4950	UE-2

UTILITIES BY OTHERS

NOTE:
ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR PROPOSED UTILITY WORK SHOWN ON THIS SHEET.

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION



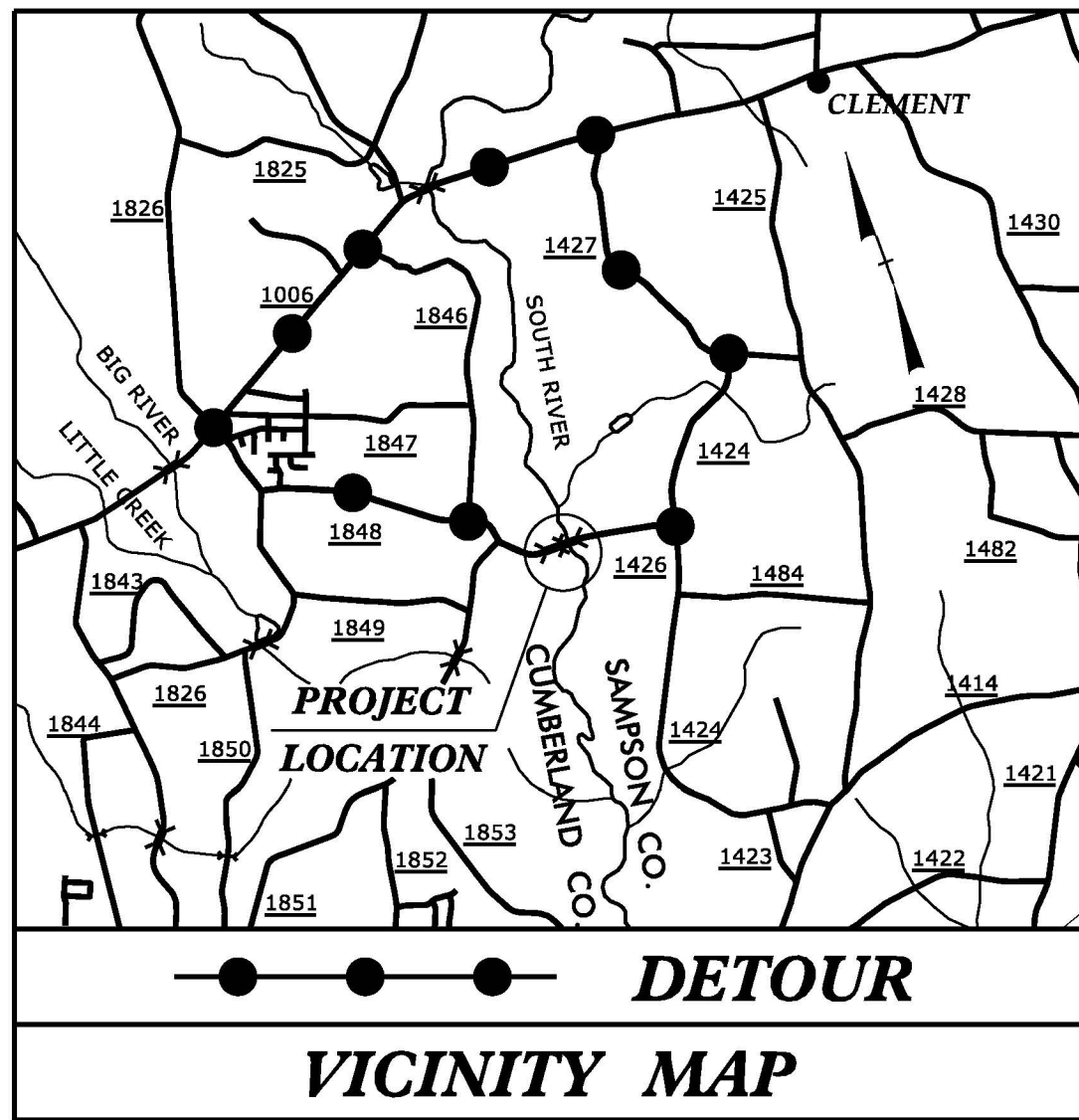
NAD 83 NRS 2007

Utility Summary Sheet												
			WETLAND IMPACTS					SURFACE WATER IMPACTS				
Site No.	Station (From/To)	Structure Size / Type	Permanent Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation in Wetlands (ac)	Mechanized Clearing in Wetlands (ac)	Hand Clearing in Wetlands (ac)	Permanent SW impacts (ac)	Temp. SW impacts (ac)	Existing Channel Impacts Permanent (ft)	Existing Channel Impacts Temp. (ft)	Natural Stream Design (ft)
1	10+88 to 13+87	Power Lines					0.10					
2	14+43 to 18+32	Power Lines					0.09					
3	18+71 to 20+79	Power Lines					0.05					
TOTALS:							0.24					

Note: Clearing for utility relocation will not exceed the current clear zone being maintained for the existing utilities.

09/08/19

See Sheet 1A For Index of Sheets
See Sheet 1B For Conventional Symbols
See Sheet 1C-1 For Survey Control Sheet



ROW PLANS

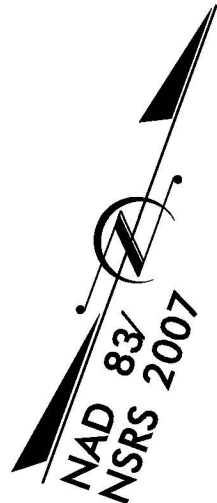
STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

CUMBERLAND AND SAMPSON COUNTIES

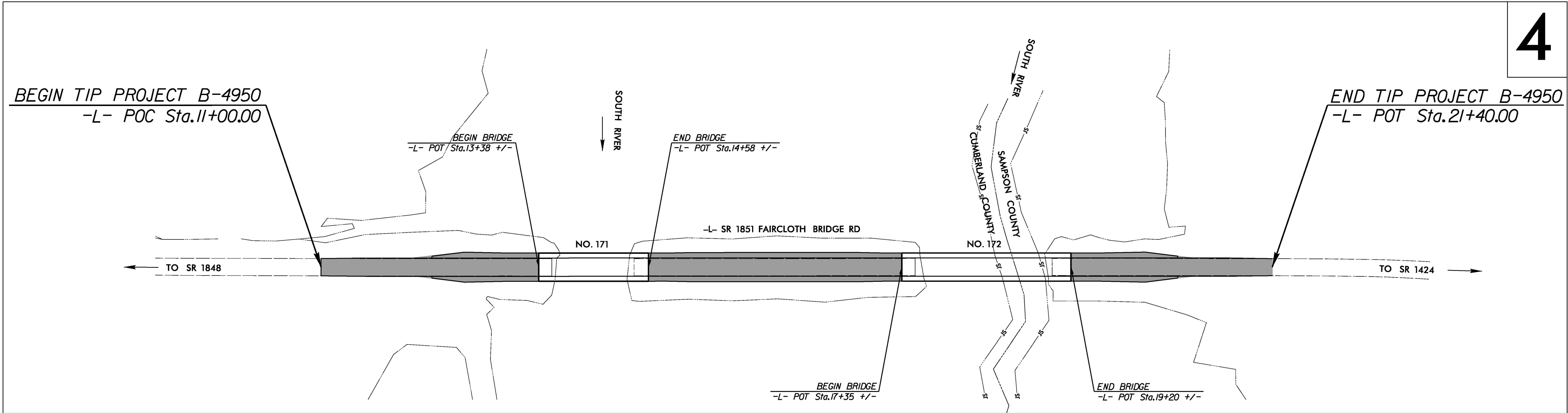
**LOCATION: REPLACE BRIDGES 171 AND 172 OVER
SOUTH RIVER ON SR 1851/SR 1426
(FAIRCLOTH BRIDGE ROAD)**

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

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4950	1	
STATE PROJ. NO.	P.A. PROJ. NO.	DESCRIPTION	
40108.1.1	BRZ-1851 (3)	PE	
40108.2.1	BRZ-1851 (3)	ROW, UTIL	



TIP PROJECT: B-4950

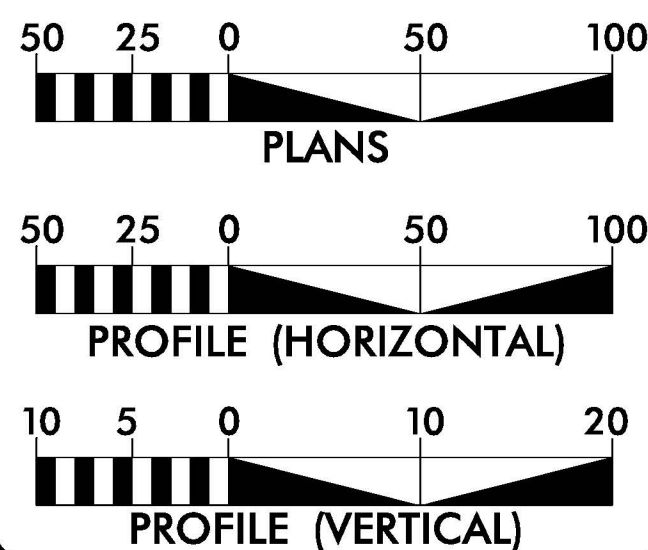


4

THERE IS NO CONTROL OF ACCESS ON THIS PROJECT.
THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III "MODIFIED" W/HAND CLEARING BEYOND THE SLOPE STAKES.

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES



DESIGN DATA

ADT 2017 = 654
ADT 2037 = 1,038
K = 10 %
D = 60 %
T = 3 % *
V = 60 MPH
*(TTST=1% + DUAL=2%)
FUNC CLASS = LOCAL
SUB-REGIONAL TIER

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-4950 = 0.139 MILE
LENGTH STRUCTURE TIP PROJECT B-4950 = 0.058 MILE
TOTAL LENGTH TIP PROJECT B-4950 = 0.197 MILE

PLANS PREPARED BY:

RS&H

8601 SIX FORKS RD, SUITE 260
RALEIGH, NC 27615
919-926-4100

FOR THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
JULY 21, 2016

LETTING DATE:
MAY 16, 2017

JENNIFER FARINO, PE
PROJECT ENGINEER

JARED BOND, PE
PROJECT DESIGN ENGINEER

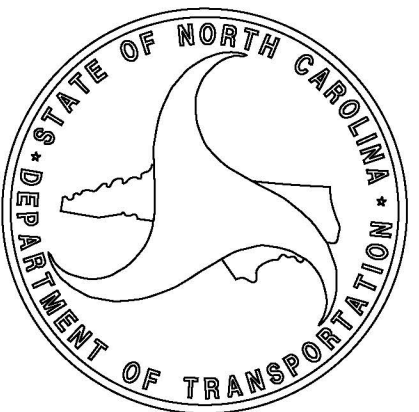
TATIA L. WHITE, PE, PLS
NCDOT CONTACT

HYDRAULICS ENGINEER

SIGNATURE: P.E.

ROADWAY DESIGN
ENGINEER

SIGNATURE: P.E.



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CONTRACT:

STATE OF NORTH CAROLINA, DIVISION OF HIGHWAYS
CONVENTIONAL PLAN SHEET SYMBOLS

Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

PROJECT REFERENCE NO.	SHEET NO.
B-4950	1B

BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	○ EIP
Property Corner	-----*
Property Monument	□ ECM
Parcel/Sequence Number	(123)
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---
Existing Historic Property Boundary	---HPB---
Known Contamination Area: Soil	☠☠
Potential Contamination Area: Soil	☠☠
Known Contamination Area: Water	☠☠
Potential Contamination Area: Water	☠☠
Contaminated Site: Known or Potential	☠☠

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	○
Wetland	✕
Proposed Lateral, Tail, Head Ditch	→
False Sump	◇

RAILROADS:

Standard Gauge	-----
RR Signal Milepost	○ MILEPOST 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	○ R W
Proposed Right of Way Line with Iron Pin and Cap Marker	○ R W ▲
Proposed Right of Way Line with Concrete or Granite RW Marker	○ R W
Proposed Control of Access Line with Concrete C/A Marker	○ C A
Existing Control of Access	○ C A
Proposed Control of Access	○ C A
Existing Easement Line	---E---
Proposed Temporary Construction Easement	---E---
Proposed Temporary Drainage Easement	---TDE---
Proposed Permanent Drainage Easement	---PDE---
Proposed Permanent Drainage /Utility Easement	---DUE---
Proposed Permanent Utility Easement	---PUE---
Proposed Temporary Utility Easement	---TUE---
Proposed Aerial Utility Easement	---AUE---
Proposed Permanent Easement with Iron Pin and Cap Marker	◆

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	---C---
Proposed Slope Stakes Fill	---F---
Proposed Curb Ramp	○ CR
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	---S---

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	●●
U/G Power Line LOS B (S.U.E.*)	---P---
U/G Power Line LOS C (S.U.E.*)	---P---
U/G Power Line LOS D (S.U.E.*)	---P---

TELEPHONE:

Existing Telephone Pole	●
Proposed Telephone Pole	○
Telephone Manhole	⊙
Telephone Pedestal	⊠
Telephone Cell Tower	⊠
U/G Telephone Cable Hand Hole	-----
U/G Telephone Cable LOS B (S.U.E.*)	---T---
U/G Telephone Cable LOS C (S.U.E.*)	---T---
U/G Telephone Cable LOS D (S.U.E.*)	---T---
U/G Telephone Conduit LOS B (S.U.E.*)	---TC---
U/G Telephone Conduit LOS C (S.U.E.*)	---TC---
U/G Telephone Conduit LOS D (S.U.E.*)	---TC---
U/G Fiber Optics Cable LOS B (S.U.E.*)	---TFO---
U/G Fiber Optics Cable LOS C (S.U.E.*)	---TFO---
U/G Fiber Optics Cable LOS D (S.U.E.*)	---TFO---

WATER:

Water Manhole	⊙
Water Meter	○
Water Valve	⊗
Water Hydrant	⊙
U/G Water Line LOS B (S.U.E.*)	---W---
U/G Water Line LOS C (S.U.E.*)	---W---
U/G Water Line LOS D (S.U.E.*)	---W---
Above Ground Water Line	A/G Water

TV:

TV Pedestal	⊠
TV Tower	⊗
U/G TV Cable Hand Hole	⊠
U/G TV Cable LOS B (S.U.E.*)	---TV---
U/G TV Cable LOS C (S.U.E.*)	---TV---
U/G TV Cable LOS D (S.U.E.*)	---TV---
U/G Fiber Optic Cable LOS B (S.U.E.*)	---TVFO---
U/G Fiber Optic Cable LOS C (S.U.E.*)	---TVFO---
U/G Fiber Optic Cable LOS D (S.U.E.*)	---TVFO---

GAS:

Gas Valve	◇
Gas Meter	◇
U/G Gas Line LOS B (S.U.E.*)	---G---
U/G Gas Line LOS C (S.U.E.*)	---G---
U/G Gas Line LOS D (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
SS Forced Main Line LOS B (S.U.E.*)	---FSS---
SS Forced Main Line LOS C (S.U.E.*)	---FSS---
SS Forced Main Line LOS D (S.U.E.*)	---FSS---

MISCELLANEOUS:

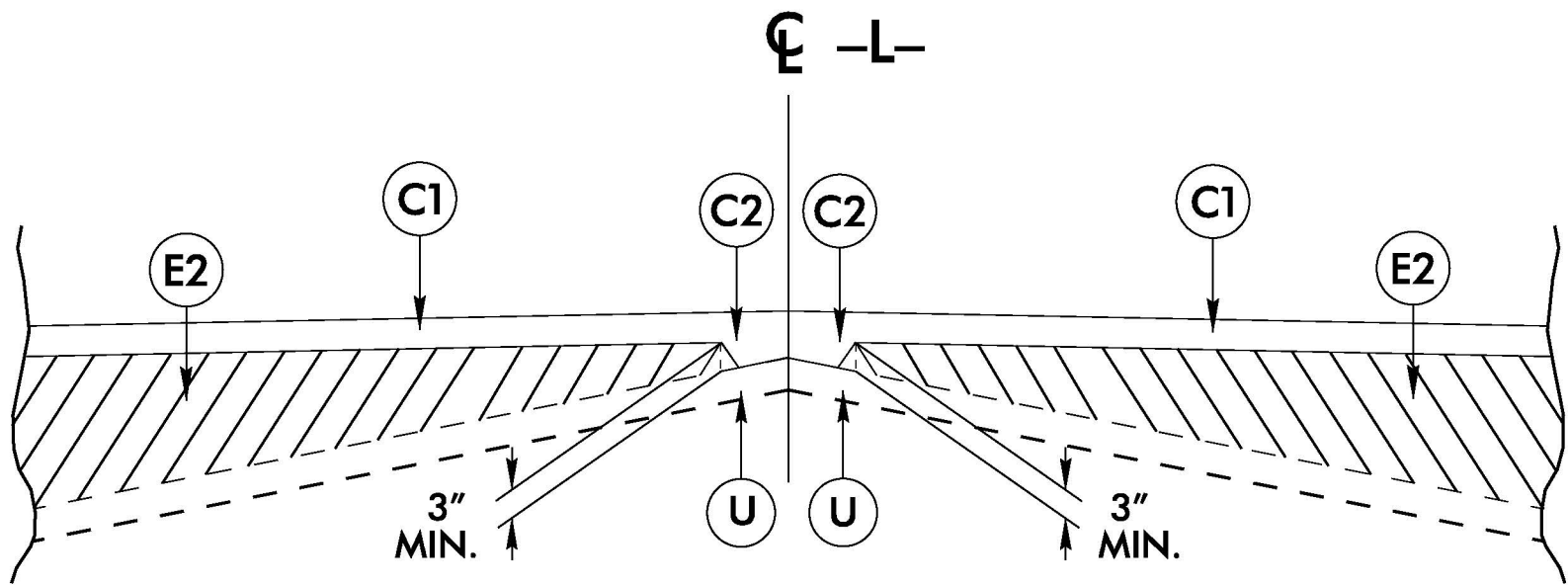
Utility Pole	●
Utility Pole with Base	□
Utility Located Object	○
Utility Traffic Signal Box	⊠
Utility Unknown U/G Line LOS B (S.U.E.*)	---UTL---
U/G Tank; Water, Gas, Oil	□
Underground Storage Tank, Approx. Loc.	UST
A/G Tank; Water, Gas, Oil	□
Geoenvironmental Boring	⊙
U/G Test Hole LOS A (S.U.E.*)	⊙
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.

6/2/99

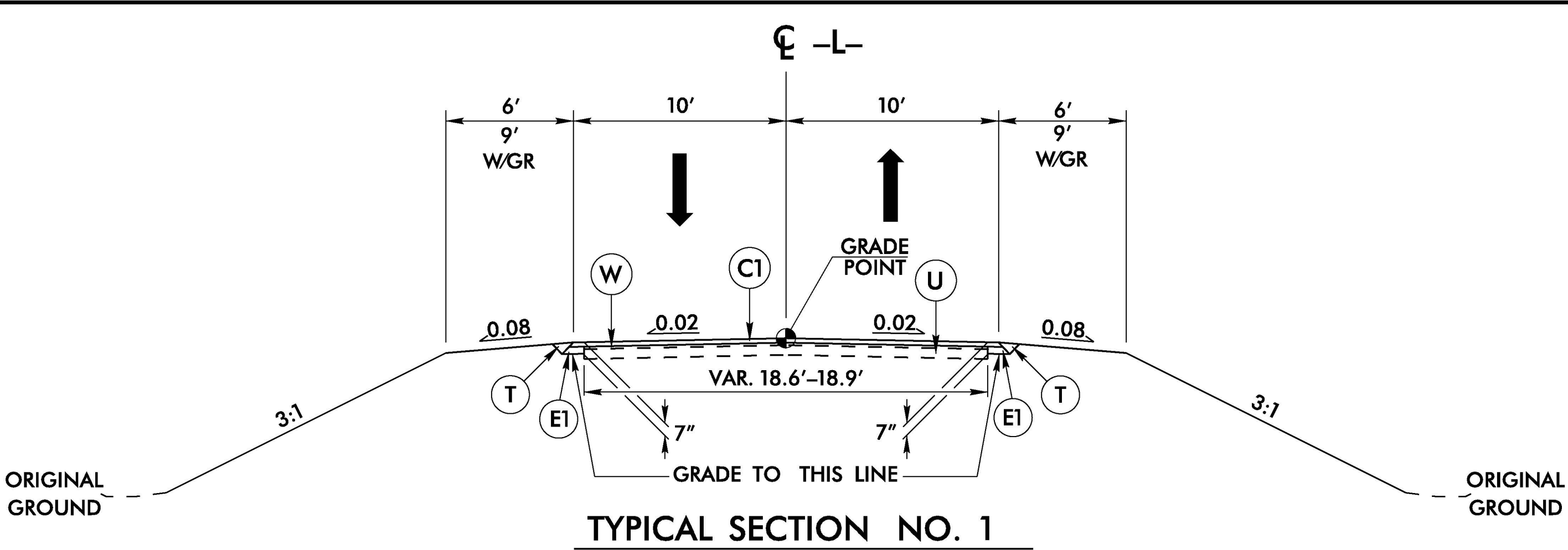
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PAVEMENT SCHEDULE (FINAL PAVEMENT DESIGN)	
C1	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
C2	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD. PER 1" DEPTH TO BE PLACED IN LAYERS NOT TO EXCEED 1½" IN DEPTH.
E1	PROP. APPROX. 4" 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 5½" IN DEPTH.
T	EARTH MATERIAL
U	EXISTING PAVEMENT
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE WEDGING DETAIL)

NOTE: ALL PAVEMENT SLOPES 1:1 UNLESS NOTED OTHERWISE

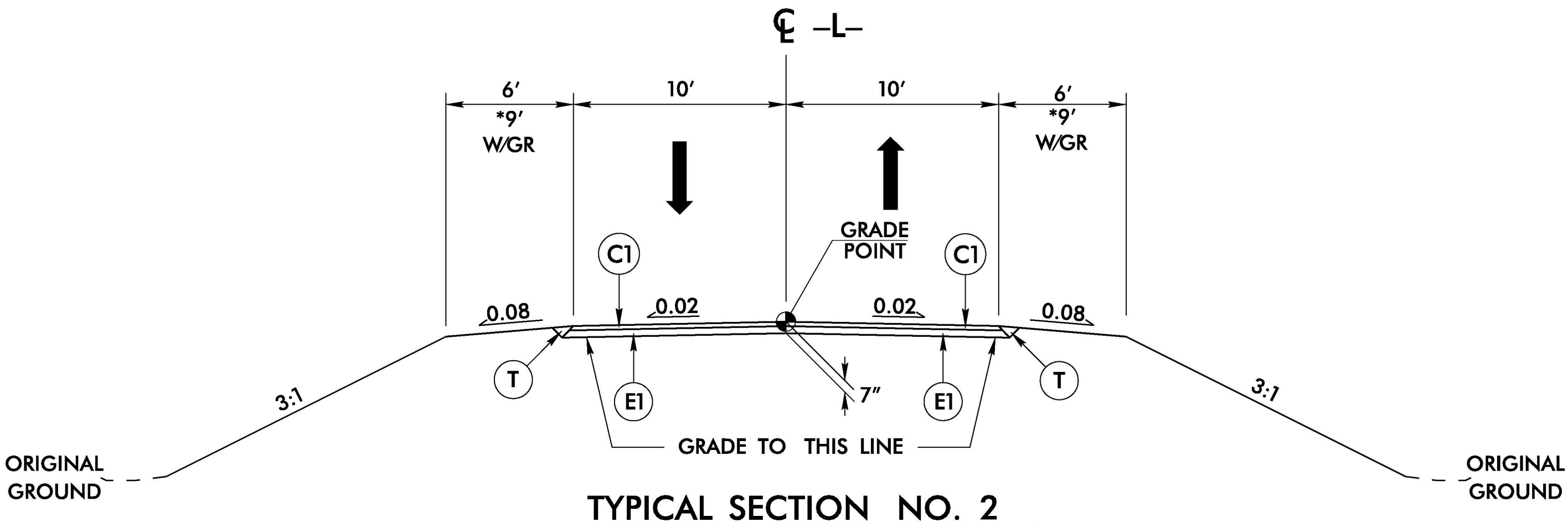


STANDARD WEDGING DETAIL



TYPICAL SECTION NO. 1

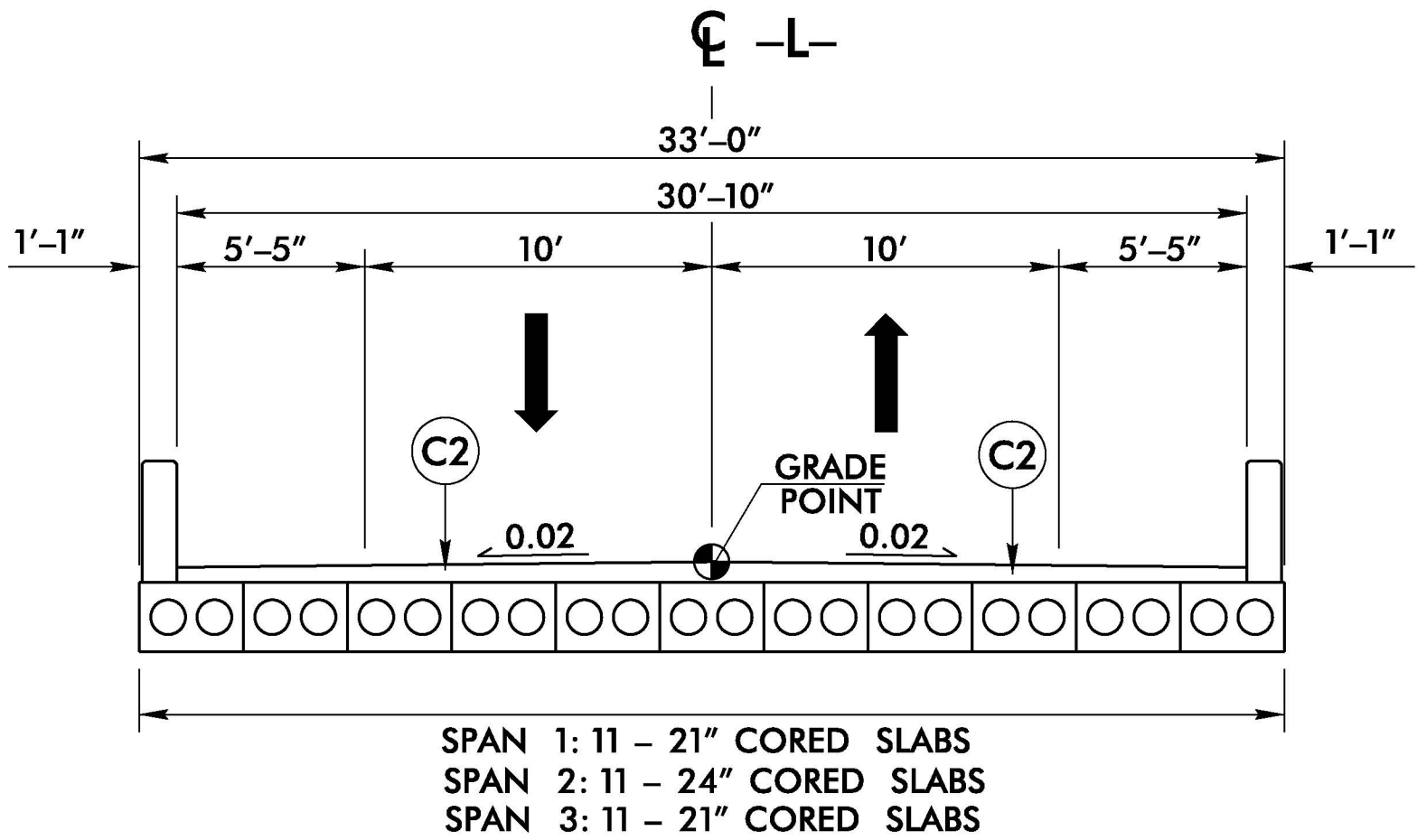
USE TYPICAL SECTION NO. 1
-L- STA. 11+00.00 TO -L- STA. 11+50.00
-L- STA. 20+90.00 TO -L- STA. 21+40.00



TYPICAL SECTION NO. 2

USE TYPICAL SECTION NO. 2
-L- STA. 11+50.00 TO -L- STA. 13+38 +/-
-L- STA. 14+58 +/- TO -L- STA. 17+35 +/-
-L- STA. 19+20 +/- TO -L- STA. 20+90.00

* PAVE TO FACE OF GUARDRAIL



TYPICAL SECTION NO. 3

USE TYPICAL SECTION NO. 3
-L- STA. 13+38 +/- TO -L- STA. 14+58 +/-
-L- STA. 17+35 +/- TO -L- STA. 19+20 +/-

PROJECT REFERENCE NO.	SHEET NO.
B-4950	2A-1
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

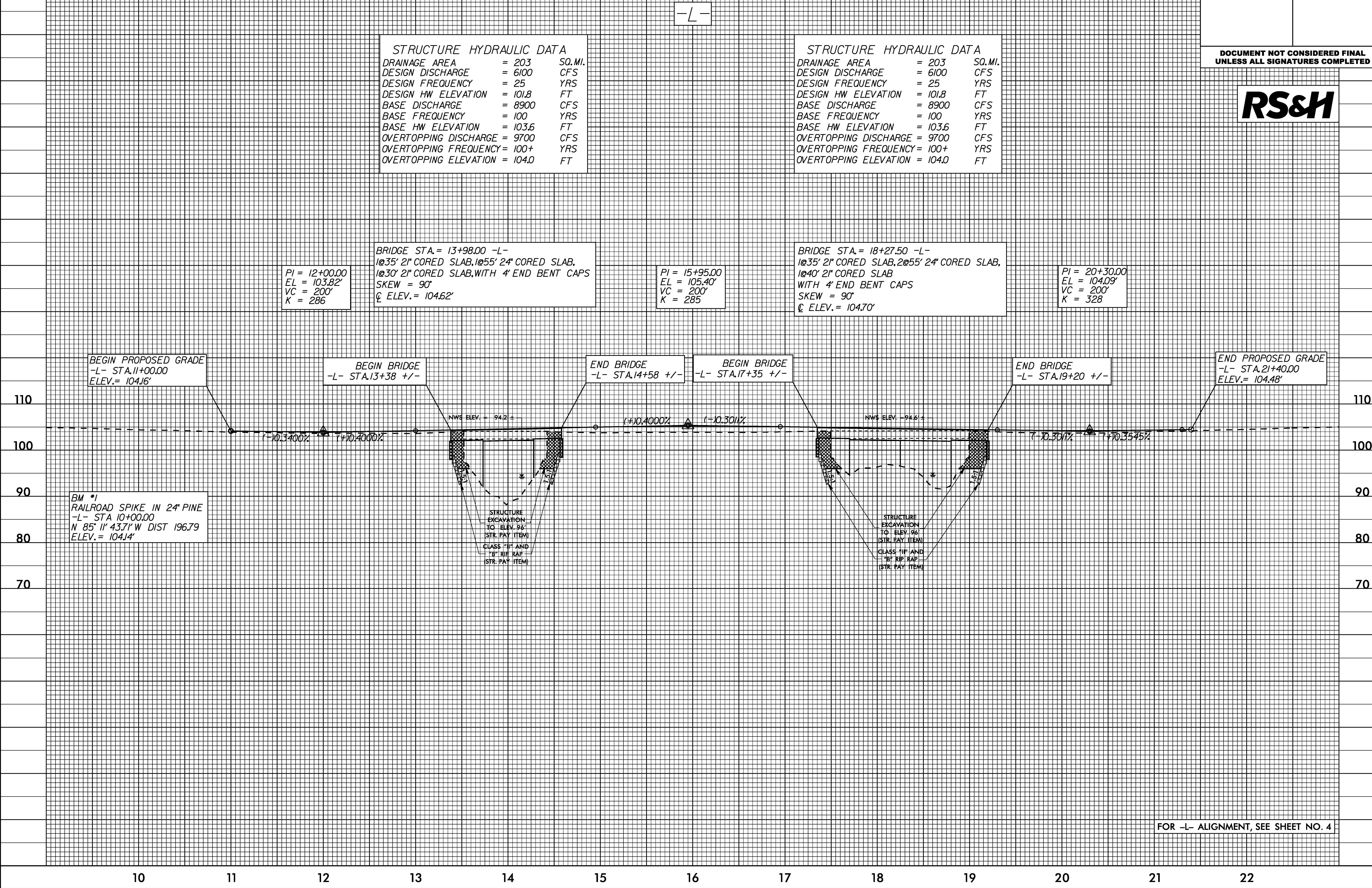
RS&H

5/14/99

13 JUL 2016 15:00
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PROJECT REFERENCE NO.		SHEET NO.
B-4950		5
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

RS&H



8/23/99

75

70

65

60

55

50

45

40

35

30

25

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65

70

75

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

110

105

100

95

110

105

100

110

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105

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95

3:1

0.020

0.020

3:1

103.69

12 + 50.00

3:1

0.020

0.020

3:1

103.62

12 + 00.00

3:1

0.020

0.020

3:1

103.77

11 + 50.00

3:1

0.023

0.005

3:1

103.91

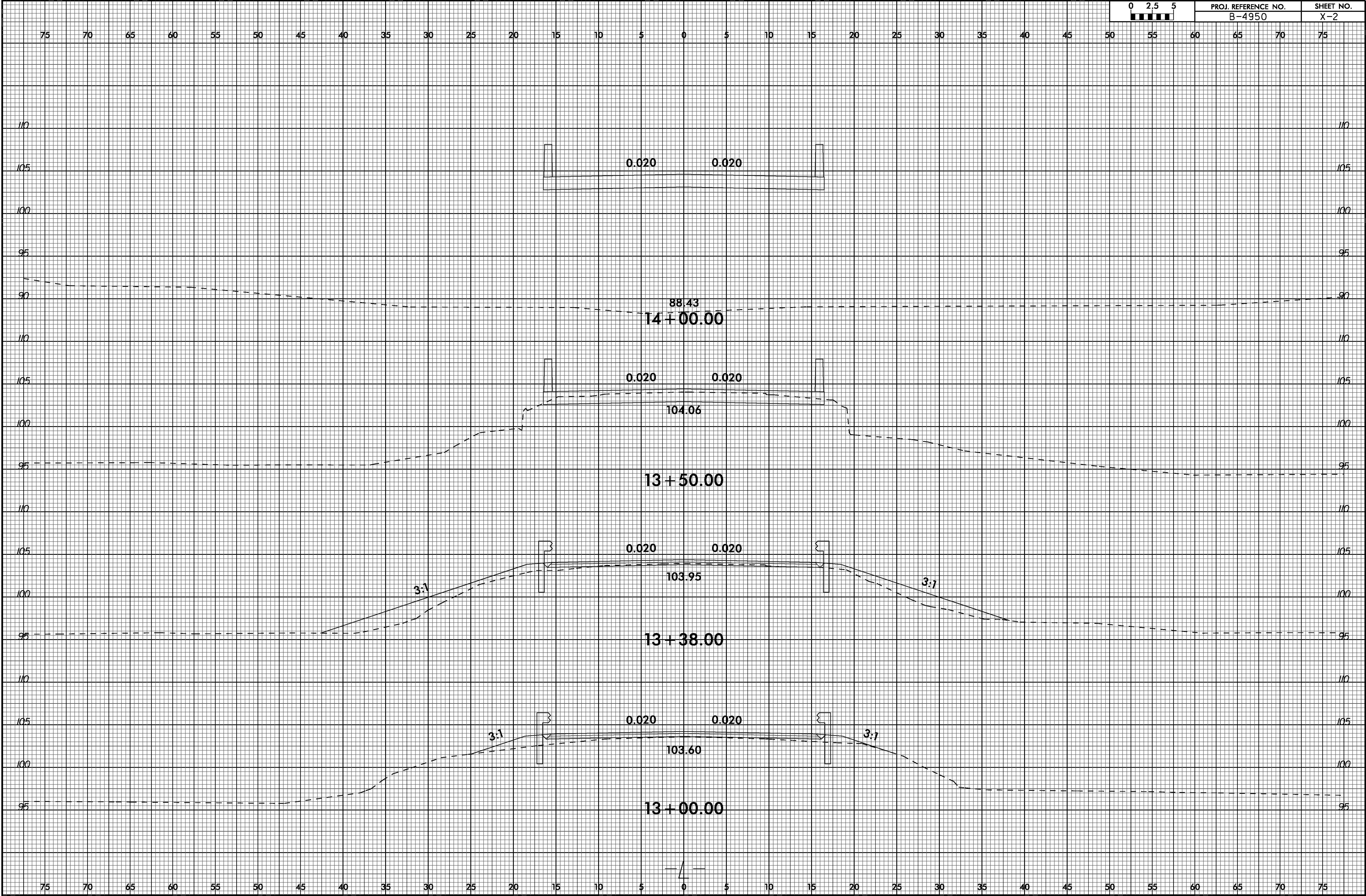
11 + 00.00

104.23

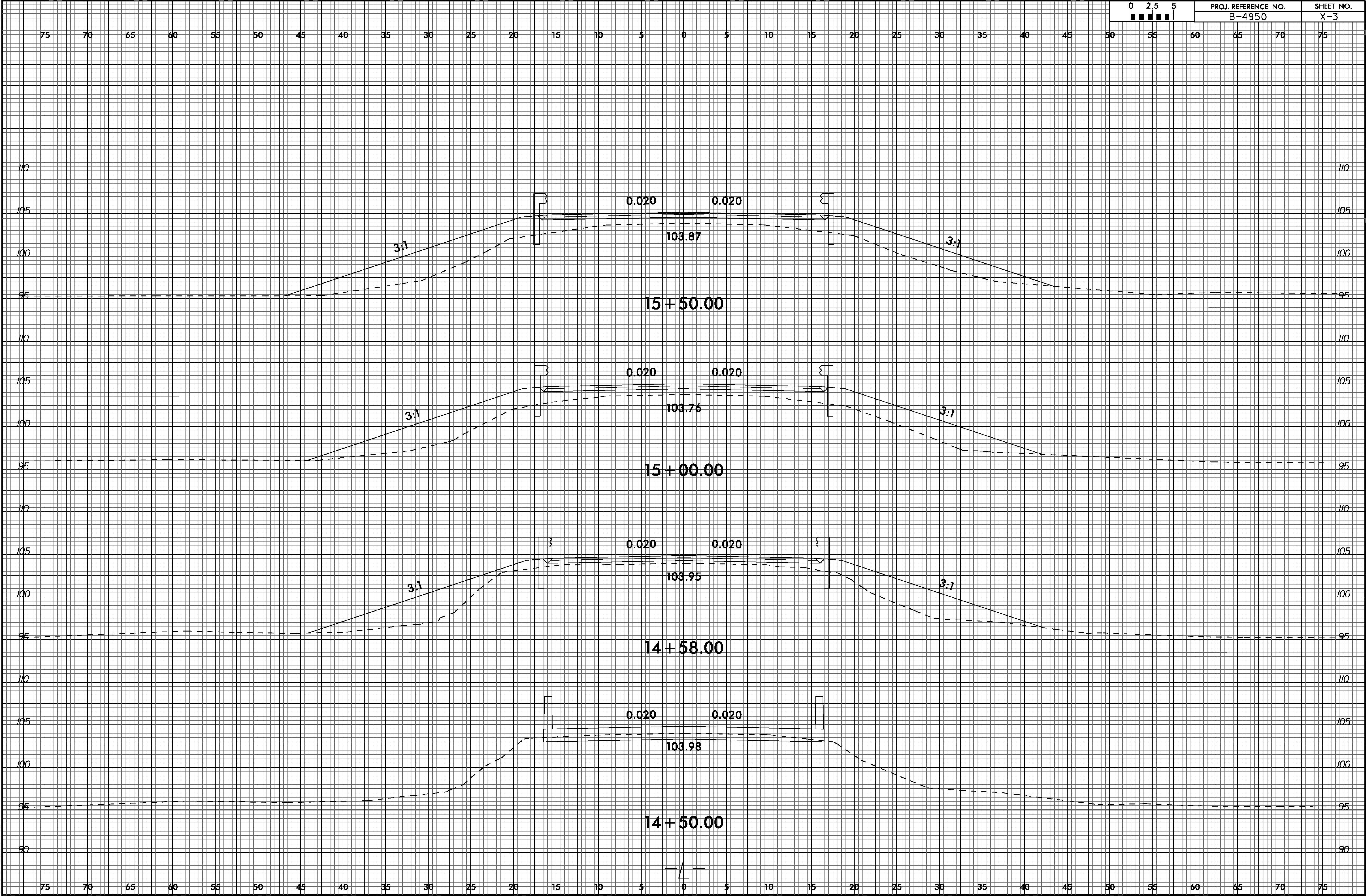
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1

8/23/99

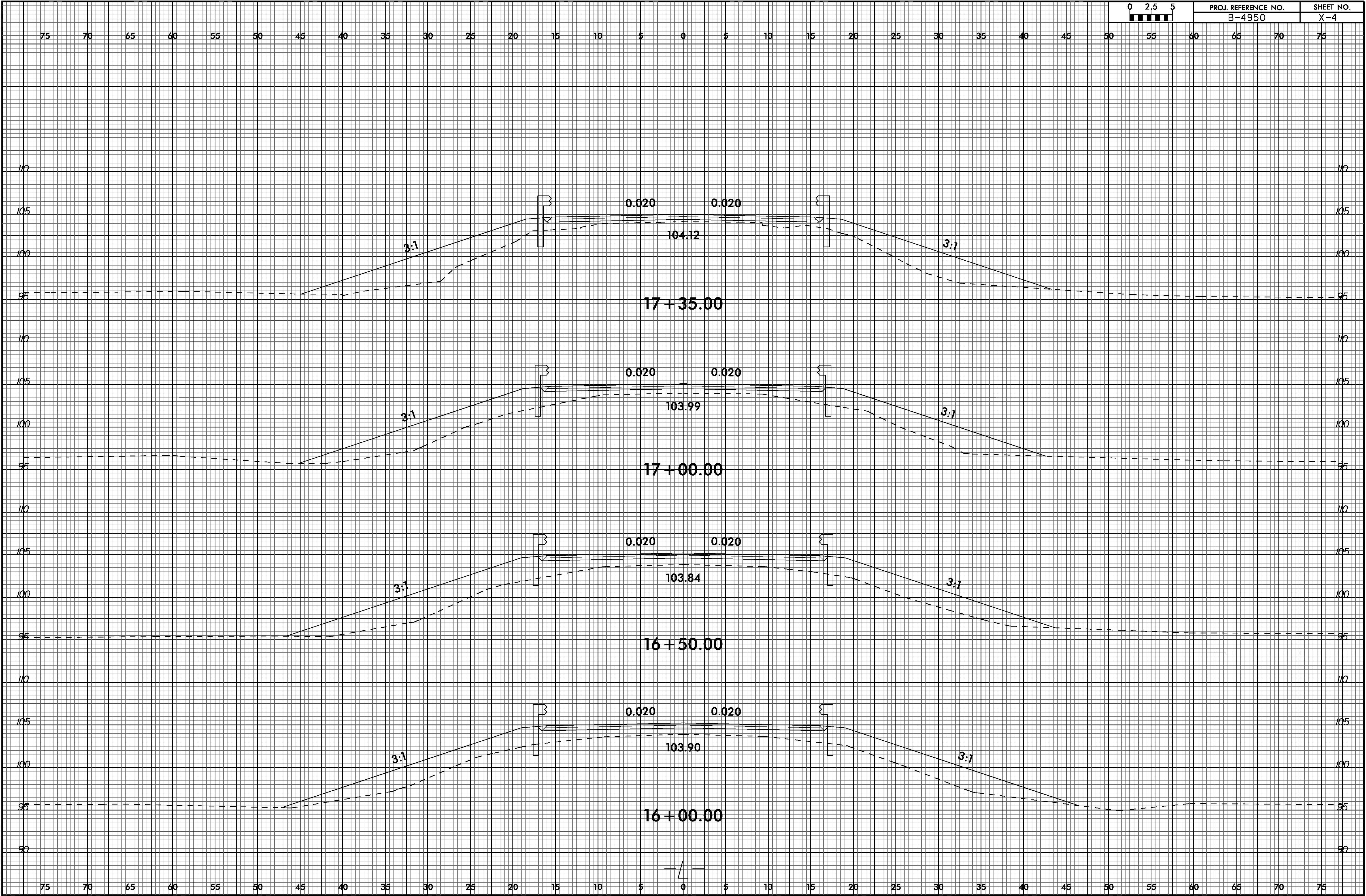


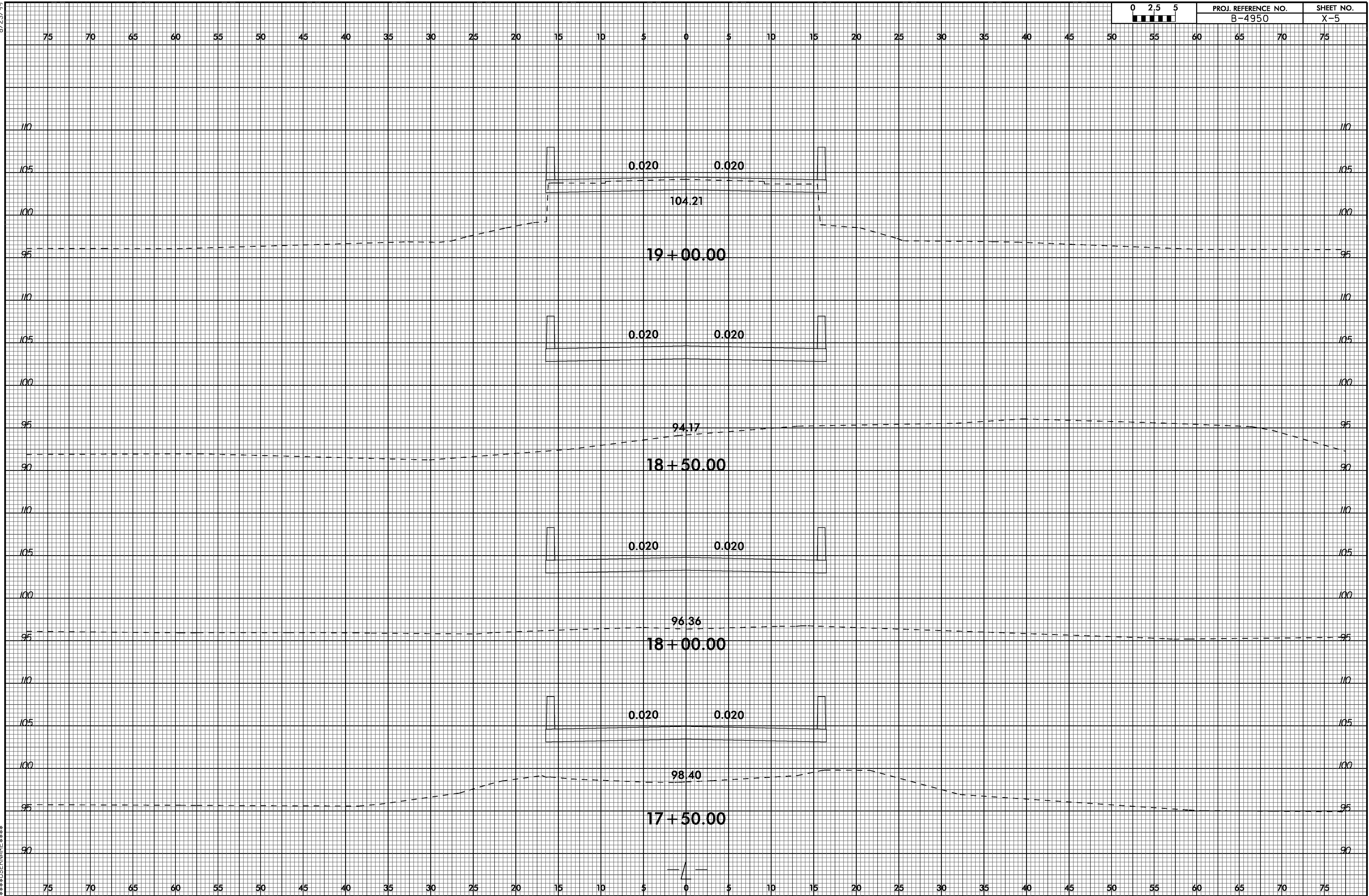
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0 2.5 5	PROJ. REFERENCE NO.	SHEET NO.
	B-4950	X-4





8/23/99

