



PAT McCRORY
Governor

NICHOLAS J. TENNYSON
Secretary

May 16, 2016

Wilmington Regulatory Field Office
US Army Corps of Engineers
69 Darlington Avenue
Wilmington, NC 28403

ATTN: Mr. Brad Shaver
NCDOT Coordinator

Subject: **Application for Section 404 Nationwide Permit 23 and Section 401 Water Quality Certification** for the proposed replacement of Bridges Nos. 102, 103 and 104 over Little Coharie Creek on SR 1233 (Autryville Road) in Sampson County, North Carolina; TIP No. B-4814; Federal Aid Project No. BRZ-1233(6); Debit \$270 from WBS No. 38584.2.1

Dear Sir,

The North Carolina Department of Transportation (NCDOT) proposes to replace the existing 36-foot bridge no. 102, 53-foot bridge no. 103 and 53-foot bridge no. 104. The replacement for bridge no. 102 will be 70 feet long, the replacement for bridges nos. 103 and 104 will be 80 feet long each. The roadway grade of the new structures will be approximately the same as the existing structures. Traffic will be maintained on an offsite detour. Permanent impacts to riparian wetlands total 0.42 acre, due to permanent fill, excavation and mechanized clearing in wetlands. There will also be <0.01 acre of permanent surface water impact due to the roadway embankment and rip rap embankment.

Please see enclosed copies of the Pre-Construction Notification (PCN), Preliminary Jurisdictional Determination, North Carolina Division of Mitigation Services acceptance letter, stormwater management plan, permit drawings, and design plans for the above referenced project. The Programmatic Categorical Exclusion (PCE) was completed in June 2015 and distributed shortly after. Additional copies are available at the NCDOT website:

<https://connect.ncdot.gov/resources/Environmental/>.

This project calls for a letting date of December 20, 2016 and a review date of November 1, 2016. The project schedule may be advanced if funding becomes available.

Regulatory Approvals

Section 404 Permit: We anticipate that the bridge replacement, including all approach work will be authorized under Section 404 Nationwide Permit (NWP) No. 23.

Section 401 Permit: We anticipate 401 Water Quality Certification number 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 Jason Dilday at (919) 707-6111 or jldilday@ncdot.gov

Sincerely,

A handwritten signature in black ink, appearing to read "Philip S. Harris III", with a horizontal line and a small flourish at the end.

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 1.3 Dec 10 2008

Pre-Construction Notification (PCN) Form

A. Applicant Information

1. Processing

1a. Type(s) of approval sought from the Corps:	<input checked="" type="checkbox"/> Section 404 Permit	<input type="checkbox"/> Section 10 Permit
1b. Specify Nationwide Permit (NWP) number: 23 or General Permit (GP) number:		
1c. Has the NWP or GP number been verified by the Corps?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
1d. Type(s) of approval sought from the DWQ (check all that apply):		
<input 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 No. 102, 103 and 104 on SR 1233 over Little Coharie Creek
2b. County:	Sampson
2c. Nearest municipality / town:	Salemburg
2d. Subdivision name:	<i>not applicable</i>
2e. NCDOT only, T.I.P. or state project no.:	B-4814

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) 707-6111
3g. Fax no.:	(919) 212-5785
3h. Email address:	jldilday@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: 35.0158 (DD.DDDDDD) Longitude: -78.5394 (-DD.DDDDDD)
1c. Property size:	2.64 acres
2. Surface Waters	
2a. Name of nearest body of water (stream, river, etc.) to proposed project:	Little Coharie Creek
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: The land use is mostly forested with a some residential properties and agricultural fields.	
3b. List the total estimated acreage of all existing wetlands on the property: 3.5	
3c. List the total estimated linear feet of all existing streams (intermittent and perennial) on the property: 750 feet perennial; 450 intermittent	
3d. Explain the purpose of the proposed project: To replace structurally deficient bridges.	
3e. Describe the overall project in detail, including the type of equipment to be used: The project involves replacing the 36-foot bridge 102, 53-foot bridge 103 and 53-foot bridge 104 with a 70-foot, 80-foot and 80-foot bridges, respectively. The bridges will be replaced on the existing alignment with an off-site detour. 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): Chris Manley	Agency/Consultant Company: NCDOT Other:
4d. If yes, list the dates of the Corps jurisdictional determinations or State determinations and attach documentation. April 11, 2012	
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 (Corps - 404, 10 DWQ – non-404, other)	2f. Area of impact (acres)	
Site 1 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Fill/Mechanized Clearing	Riparian	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	0.02	
Site 2 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Fill/Mechanized Clearing	Riparian	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	0.17	
Site 3 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Fill/Mechanized Clearing	Riparian	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	0.16	
Site 4 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Fill/Mechanized Clearing	Riparian	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	0.06	
Site <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Excavation	Riparian	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	0.01	
Site 1 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
2g. Total wetland impacts					0.42 Permanent 0 Temporary	
2h. Comments: See Wetland Permit Impact Summary sheet for details.						
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 2 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Toe Protection	Little Coharie Creek	<input checked="" type="checkbox"/> PER <input type="checkbox"/> INT	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	40	<0.01 ac
Site 2 <input type="checkbox"/> P <input checked="" type="checkbox"/> T	Toe Protection	Little Coharie Creek	<input checked="" type="checkbox"/> PER <input type="checkbox"/> INT	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	40	<0.01 ac
Site 4 <input checked="" type="checkbox"/> P <input type="checkbox"/> T	Ditch Tie-in	Little Coharie Creek	<input checked="" type="checkbox"/> PER <input type="checkbox"/> INT	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	40	<0.01 ac
Site 4 <input type="checkbox"/> P <input checked="" type="checkbox"/> T	Ditch Tie-in	Little Coharie Creek	<input checked="" type="checkbox"/> PER <input type="checkbox"/> INT	<input checked="" type="checkbox"/> Corps <input type="checkbox"/> DWQ	40	<0.01 ac
Site 5 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
Site 6 <input type="checkbox"/> P <input type="checkbox"/> T			<input type="checkbox"/> PER <input type="checkbox"/> INT	<input type="checkbox"/> Corps <input type="checkbox"/> DWQ		
3h. Total stream and tributary impacts					<0.01 ac P <0.01 ac T	
3i. Comments:						

4. Open Water Impacts

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

4a. Open water impact number – Permanent (P) or Temporary (T)	4b. Name of waterbody (if applicable)	4c. Type of impact	4d. Waterbody type	4e. Area of impact (acres)
O1 <input type="checkbox"/> P <input type="checkbox"/> T				
O2 <input type="checkbox"/> P <input type="checkbox"/> T				
O3 <input type="checkbox"/> P <input type="checkbox"/> T				
O4 <input type="checkbox"/> P <input type="checkbox"/> T				
4f. Total open water impacts				0 Permanent 0 Temporary

4g. Comments:

5. Pond or Lake Construction

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

5a. Pond ID number	5b. Proposed use or purpose of pond	5c. Wetland Impacts (acres)			5d. Stream Impacts (feet)			5e. Upland (acres)
		Flooded	Filled	Excavated	Flooded	Filled	Excavated	Flooded
P1								
P2								
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: Jordan
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		
B1 <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:					

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 bridges will be longer than the existing bridges; the replacement bridges will be a single spans, so no bents in the water; the proposed bridges will be at approximately the same grade and alignment as the existing structures; the new bridges will have no deck drains or direct discharge to Little Coharie Creek. An off-site detour will be used during construction. See Stormwater Management Plan for more measures.

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 implemented; Best Management Practices for the Protection of Surface Waters 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
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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): square feet

4e. Riparian wetland mitigation requested: 0.42 acres

4f. Non-riparian wetland mitigation requested: acres

4g. Coastal (tidal) wetland mitigation requested: acres

4h. Comments:

5. Complete if Using a Permittee Responsible Mitigation Plan

5a. If using a permittee responsible mitigation plan, provide a description of the proposed mitigation plan.

6. Buffer Mitigation (State Regulated Riparian Buffer Rules) – required by DWQ

6a. Will the project result in an impact within a protected riparian buffer that requires buffer mitigation? Yes No

6b. If yes, then identify the square feet of impact to each zone of the riparian buffer that requires mitigation. Calculate the amount of mitigation required.

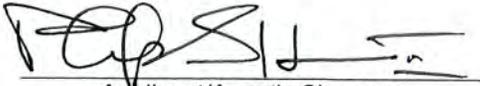
Zone	6c. Reason for impact	6d. Total impact (square feet)	Multiplier	6e. Required mitigation (square feet)
Zone 1			3 (2 for Catawba)	
Zone 2			1.5	
6f. Total buffer mitigation required:				

6g. If buffer mitigation is required, discuss what type of mitigation is proposed (e.g., payment to private mitigation bank, permittee responsible riparian buffer restoration, payment into an approved in-lieu fee fund).

6h. Comments:

E. Stormwater Management and Diffuse Flow Plan (required by DWQ)	
1. Diffuse Flow Plan	
1a. Does the project include or is it adjacent to protected riparian buffers identified within one of the NC Riparian Buffer Protection Rules?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1b. If yes, then is a diffuse flow plan included? If no, explain why. Comments: See attached permit drawings.	<input checked="" 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?	N/A
3b. Which of the following locally-implemented stormwater management programs apply (check all that apply):	<input type="checkbox"/> Phase II <input type="checkbox"/> NSW <input type="checkbox"/> USMP <input type="checkbox"/> Water Supply Watershed <input type="checkbox"/> Other:
3c. Has the approved Stormwater Management Plan with proof of approval been attached?	<input type="checkbox"/> Yes <input type="checkbox"/> No
4. DWQ Stormwater Program Review	
4a. Which of the following state-implemented stormwater management programs apply (check all that apply):	<input type="checkbox"/> Coastal counties <input type="checkbox"/> HQW <input type="checkbox"/> ORW <input type="checkbox"/> Session Law 2006-246 <input type="checkbox"/> Other:
4b. Has the approved Stormwater Management Plan with proof of approval been attached?	<input type="checkbox"/> Yes <input type="checkbox"/> No
5. DWQ 401 Unit Stormwater Review	
5a. Does the Stormwater Management Plan meet the appropriate requirements?	<input 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 this bridge replacement, this project will neither influence nearby land uses nor stimulate growth. Therefore, a detailed indirect or cumulative effects study will not be necessary.	
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? N.C. Natural Heritage Program database; USFWS-Raleigh Field Office website; biological surveys for protected species listed for Sampson County, which includes american alligator, red-cockaded woodpecker, wood stork and pondberry. The species received a Biological Conclusions of "No Effect". No habitat was present for the listed species.		
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		
Philip S. Harris III, P.E., C.P.M. Applicant/Agent's Printed Name	 Applicant/Agent's Signature (Agent's signature is valid only if an authorization letter from the applicant is provided.)	5/16/2016 Date

U.S. ARMY CORPS OF ENGINEERS
WILMINGTON DISTRICT

RECEIVED

APR 18 2012

Action Id. 2011 2376

County: Sampson

U.S.G.S. Quad: Salemburg

DIVISION OF HIGHWAYS
AREA OFFICE OF NATURAL ENVIRONMENT

NOTIFICATION OF JURISDICTIONAL DETERMINATION

Applicant: NCDOT - Natural Environment Section
Address: attn: Chris Manly
1598 Mail Service Center
Raleigh, NC 27699-1598

Property description:

Size (acres) linear, approximate 0.5 mile Nearest Town Salemburg
Nearest Waterway Little Coharrie Creek River Basin Cape Fear
USGS HUC 03030006 Coordinates N 34.992641 W 78.521840
Location description The site (B 4814) is located along SR 1233 just east of the intersection with SR 1002 west of Salemburg crossing Little Coharrie Creek, Sampson County.

Indicate Which of the Following Apply:

A. Preliminary Determination

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

B. Approved Determination

- There are Navigable Waters of the United States within the above described property subject to the permit requirements of Section 10 of the Rivers and Harbors Act and Section 404 of the Clean Water Act. Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.
- There are wetlands on the above described property subject to the permit requirements of Section 404 of the Clean Water Act (CWA)(33 USC § 1344). Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.
- We strongly suggest you have the wetlands on your property delineated. Due to the size of your property and/or our present workload, the Corps may not be able to accomplish this wetland delineation in a timely manner. For a more timely delineation, you may wish to obtain a consultant. To be considered final, any delineation must be verified by the Corps.
- The wetland on your property have been delineated and the delineation has been verified by the Corps. We strongly suggest you have this delineation surveyed. Upon completion, this survey should be reviewed and verified by the Corps. Once verified, this survey will provide an accurate depiction of all areas subject to CWA jurisdiction on your property which, provided there is no change in the law or our published regulations, may be relied upon for a period not to exceed five years.
- The wetlands have been delineated and surveyed and are accurately depicted on the plat signed by the Corps Regulatory Official identified below on _____. Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.
- There are no waters of the U.S., to include wetlands, present on the above described property which are subject to the permit requirements of Section 404 of the Clean Water Act (33 USC 1344). Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.

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

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

C. Basis For Determination

The features reviewed during this preliminary determination exhibited both an ordinary high water mark and had characteristics of wetlands as described in the 1987 Corps Delineation Manual.

D. Remarks

This determination is based on a preliminary jurisdictional determination package submitted on behalf of the Department of Transportation from Michael Baker Engineering Inc. received March 16, 2012. The jurisdictional areas are displayed on attached map.

Corps Regulatory Official: _____



Date 4/11/2012

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

cc: Michael Baker Engineering Inc., attn: Richard Darling 8000 Regency Pkwy., Suite 600 Cary, NC 27518
NCDENR, DWQ attn: Mason Herndon (electronic copy)
NCDOT, Division 3 DEO, Stonewall Mathis (electronic copy)

B-4814

PRELIMINARY JURISDICTIONAL DETERMINATION FORM

BACKGROUND INFORMATION

- A. REPORT COMPLETION DATE FOR PRELIMINARY JURISDICTIONAL DETERMINATION (JD): 4/11/2012
- B. NAME AND ADDRESS OF PERSON REQUESTING PRELIMINARY JD:
Chris Manley, Environmental Program Consultant
NC DOT Natural Environment Section, 1598 Mail Service Center, Raleigh, NC 27699-1598
- C. DISTRICT OFFICE, FILE NAME, AND NUMBER: WILMINGTON FIELD OFFICE,
B4814, 2011 2376
- D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION: (TIP B-4814)
(USE THE ATTACHED TABLE TO DOCUMENT MULTIPLE WATERBODIES AT DIFFERENT SITES)

State: NC County/parish/borough: Sampson City: Salemburg

Center coordinates of site (lat/long in degree decimal format):

Lat. 35.015657 N, Long. 78.538223 W.

Universal Transverse Mercator: _____

Name of nearest waterbody: Little Coharie Creek

Identify (estimate) amount of waters in the review area:

Non-wetland waters: 1072 linear feet, 40 width (ft), and/or 0.61 acres.

Cowardin Class: Riverine

Stream Flow: Perennial

Wetlands: 3.49 acres.

Cowardin Class: Forested

Name of any water bodies on the site that have been identified as

Section 10 waters:

Tidal: _____

Non-Tidal: _____

- E. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

Office (Desk) Determination. Date: 4/11/2012

Field Determination. Date(s): _____

B-484

1. The Corps of Engineers believes that there may be jurisdictional waters of the United States on the subject site, and the permit applicant or other affected party who requested this preliminary JD is hereby advised of his or her option to request and obtain an approved jurisdictional determination (JD) for that site. Nevertheless, the permit applicant or other person who requested this preliminary JD has declined to exercise the option to obtain an approved JD in this instance and at this time.

2. In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "pre-construction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an approved JD for the activity, the permit applicant is hereby made aware of the following: (1) the permit applicant has elected to seek a permit authorization based on a preliminary JD, which does not make an official determination of jurisdictional waters; (2) that the applicant has the option to request an approved JD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an approved JD could possibly result in less compensatory mitigation being required or different special conditions; (3) that the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) that the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) that undertaking any activity in reliance upon the subject permit authorization without requesting an approved JD constitutes the applicant's acceptance of the use of the preliminary JD, but that either form of JD will be processed as soon as is practicable; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a preliminary JD constitutes agreement that all wetlands and other water bodies on the site affected in any way by that activity are jurisdictional waters of the United States, and precludes any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an approved JD or a preliminary JD, that JD will be processed as soon as is practicable. Further, an approved JD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331, and that in any administrative appeal, jurisdictional issues can be raised (see 33 C.F.R. 331.5(a)(2)). If, during that administrative appeal, it becomes necessary to make an official determination whether CWA jurisdiction exists over a site, or to provide an official delineation of jurisdictional waters on the site, the Corps will provide an approved JD to accomplish that result, as soon as is practicable. This preliminary JD finds that there "may be" waters of the United States on the subject project site, and identifies all aquatic features on the site that could be affected by the proposed activity, based on the following information:

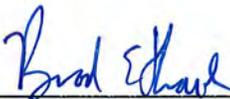
SUPPORTING DATA.

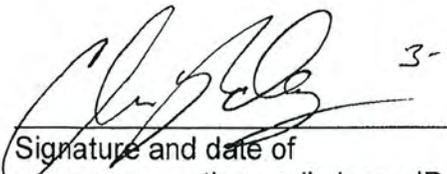
Data reviewed for preliminary JD (check all that apply - checked items should be included in case file and, where checked and requested, appropriately reference sources below):

- Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant:

- Data sheets prepared/submitted by or on behalf of the applicant/consultant.
 - Office concurs with data sheets/delineation report.
 - Office does not concur with data sheets/delineation report.
- Data sheets prepared by the Corps: _____.
- Corps navigable waters' study: _____.
- U.S. Geological Survey Hydrologic Atlas: _____.
 - USGS NHD data.
 - USGS 8 and 12 digit HUC maps.
- U.S. Geological Survey map(s). Cite scale & quad name: 7.5' Salemburg, NC.
- USDA Natural Resources Conservation Service Soil Survey. Citation: Sampson Co.
- National wetlands inventory map(s). Cite name: Salemburg.
- State/Local wetland inventory map(s): _____.
- FEMA/FIRM maps: _____.
- 100-year Floodplain Elevation is: _____ (National Geodetic Vertical Datum of 1929)
- Photographs: Aerial (Name & Date): _____
or Other (Name & Date): _____.
- Previous determination(s). File no. and date of response letter: _____.
- Other information (please specify): _____.

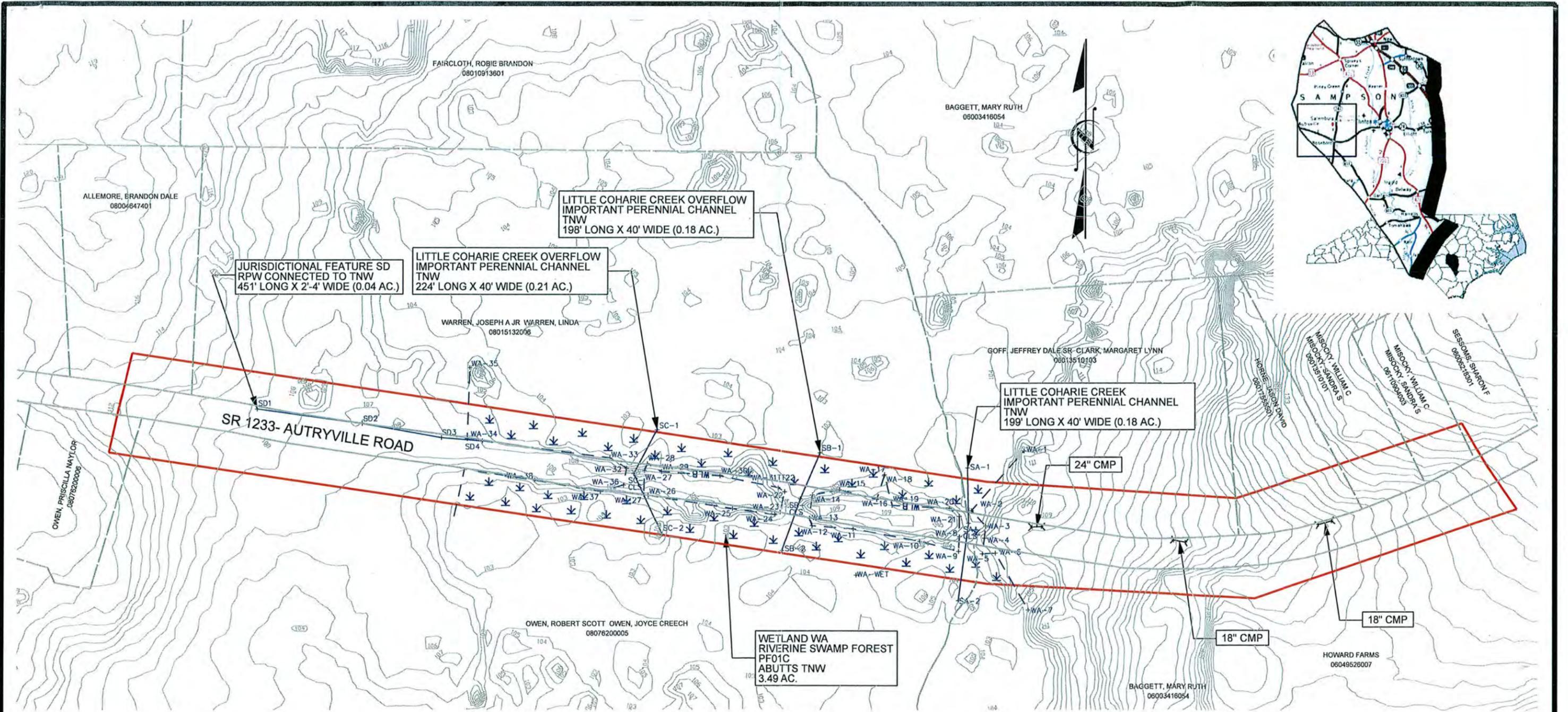
IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations.

 4/11/2012
Signature and date of
Regulatory Project Manager
(REQUIRED)

 3-26-12
Signature and date of
person requesting preliminary JD
(REQUIRED, unless obtaining
the signature is impracticable)

MULTIPLE WATERBODIES

Site	Latitude	Longitude	Cowardin Class	Aquatic Resource in Review Area	Class of Aquatic Resource
Little Coharie Creek	35.015637	-78.538174	Riverine	199 linear feet	Non-Section 10 - non-wetland
SB	35.015765	-78.539332	Riverine	198 linear feet	
SC	35.015369	-78.538174	Riverine	224 linear feet	
SD	35.016087	-78.541242	Riverine	451 linear feet	
Wetland WA	35.015655	-78.539910	Forested	3.49 acres	Non-Section 10 - wetland



Wetland WA	Latitude	Longitude
WA-01	35.005783	-78.321624
WA-02	35.005667	-78.321749
WA-03	35.005638	-78.321715
WA-04	35.005614	-78.321718
WA-05	35.005584	-78.321724
WA-07	35.005474	-78.321615
WA-06	35.005585	-78.321692
WA-08	35.005617	-78.321778
WA-09	35.005589	-78.321780
WA-10	35.005608	-78.321872
WA-11	35.005633	-78.322031
WA-12	35.005639	-78.322128
WA-13	35.005654	-78.322134
WA-14	35.005699	-78.322127
WA-16	35.005690	-78.321975
WA-17	35.005738	-78.321956
WA-15	35.005709	-78.322062
WA-18	35.005736	-78.321957
WA-19	35.005678	-78.321938

Wetland WA	Latitude	Longitude
WA-20	35.005672	-78.321801
WA-21	35.005656	-78.321778
WA-22	35.005705	-78.322193
WA-23	35.005666	-78.322204
WA-24	35.005661	-78.322218
WA-25	35.005673	-78.322319
WA-26	35.005699	-78.322521
WA-27	35.005701	-78.322531
WA-27	35.005748	-78.322529
WA-28	35.005761	-78.322522
WA-29	35.005746	-78.322489
WA-30	35.005737	-78.322349
WA-31	35.005714	-78.322208
WA-32	35.005753	-78.322572
WA-33	35.005773	-78.322612
WA-34	35.005811	-78.322949
WA-35	35.005949	-78.322942
WA-38	35.005730	-78.322788
WA-37	35.005708	-78.322634
WA-36	35.005720	-78.322579
WA-WET	35.005543	-78.322024

Little Coharie Creek	Latitude	Longitude
SA-01	35.005750	-78.321758
SA-CLS	35.005643	-78.321756
SA-02	35.005493	-78.321781
Channel B	Latitude	Longitude
SB-01	35.005781	-78.322108
SB-CLS	35.005692	-78.322155
SB-02	35.005591	-78.322200
Channel C	Latitude	Longitude
SC-01	35.005827	-78.322499
SC-CLS	35.005742	-78.322555
SC-02	35.005624	-78.322488
Channel D	Latitude	Longitude
SD-01	35.005871	-78.323449
SD-02	35.005842	-78.323199
SD-03	35.005813	-78.323011
SD-04	35.005807	-78.322913

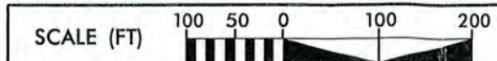
This certifies that this copy of this plat accurately depicts the boundary of the jurisdiction of Section 404 of the Clean Water Act as determined by the undersigned on this date. Unless there is a change in the law or our published regulations, this determination of Section 404 jurisdiction may be relied upon for a period not to exceed five years from this date. This determination was made utilizing the 1987 Corps of Engineers Wetlands Delineation Manual.

Regulatory Official _____
 Title _____
 Date _____
 USACE Action ID _____

I, William Kent, certify that this plat was drawn under my supervision from an actual Class C (or better) LIS/GIS survey made under my supervision on February 28, 2012; that real time kinematic differential GPS observations were made using a Topcon GRS-1 Mobil GNSS Receiver, and that local reference station network corrections (NC Geodetic Survey) were utilized via an internal modem; that all wetland boundary lines were surveyed and are clearly indicated; that the horizontal datum for this survey is NAD 83 (NSRS 2007).

Witness my original signature, registration number and seal this _____ day of _____, A.D., _____.

William Kent, PLS (L-3708)



NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PROJECT DEVELOPMENT AND ENVIRONMENTAL ANALYSIS UNIT

SAMPSON COUNTY
REPLACE BRIDGE NOS. 102, 103, AND 104
ON SR 1233
OVER LITTLE COHARIE CREEK
B-4814

WATERS OF THE U.S.
INCLUDING WETLANDS



PAT MCCRORY
Governor

DONALD R. VAN DER VAART
Secretary

April 6, 2016

Mr. Philip S. Harris, III, P.E., PLS
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-4814, Replace Bridges 102, 103 and 104 on Autryville Road over Little Coharie Creek, Sampson County

The purpose of this letter is to notify you that the Division of Mitigation Services (DMS) will provide the compensatory riparian wetland mitigation for the subject project. Based on the information supplied by you on April 4, 2016, the impacts are located in CU 03030006 of the Cape Fear River basin in the Southern Inner Coastal Plain (SICP) 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	0.42	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.

Some of the impacts and associated mitigation needs were under projected by the NCDOT in the 2016 impact data. DMS will commit to implement sufficient compensatory riparian 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: Mr. Brad Shaver, USACE – Wilmington Regulatory Field Office
Ms. Amy Chapman, NCDWR
File: B-4814





North Carolina Department of Transportation

Highway Stormwater Program
STORMWATER MANAGEMENT PLAN
FOR NCDOT PROJECTS



(Version 2.02; Released April 2015)

WBS Element: 38584.1.2 TIP No.: B-4814 County(ies): Sampson Page 1 of 2

General Project Information

WBS Element:	38584.1.2	TIP Number:	B-4814	Project Type:	Bridge Replacement	Date:	1/20/2016
NCDOT Contact:	Linda Johns		Contractor / Designer:				
Address:	North Carolina Department of Transportation		Address:				
	1590 Mail Service Center						
	Raleigh, NC 27699-1590						
Phone:	919-707-6728		Phone:				
Email:	lmjohns@ncdot.gov		Email:				
City/Town:	unincorporated areas of Sampson County		County(ies):	Sampson			
River Basin(s):	Cape Fear		CAMA County?	No			
Wetlands within Project Limits?	Yes						

Project Description

Project Length (lin. miles or feet):	0.218 miles	Surrounding Land Use:	predominantly forested and marshlands					
Project Built-Up Area (ac.)		Proposed Project		Existing Site				
		0.7 ac.		0.6 ac.				
Typical Cross Section Description:	two eleven-foot lanes with six-foot shoulder (two-foot paved and four-foot vegetated)			two ten- to eleven-foot lanes with varying shoulder widths				
Annual Avg Daily Traffic (veh/hr/day):	Design/Future:	2,740	Year:	2036	Existing:	1,960	Year:	2016
General Project Narrative: (Description of Minimization of Water Quality Impacts)	<p>This project proposes to replace bridges 102, 103, and 104 over Little Coharie Creek and its overflows and to construct associated roadway grade improvements along SR 1233, Autryville Road, in Sampson County. The existing structures are of timber and of various spans: 1@17'-9", 1@17'-10" (bridge 102), 1@17'-9", 1@17'-2", 1@17'-8" (bridge 103), and 1@17'-10", 1@17'-1", 1@17'-9" (bridge 104). The proposed replacement structures are of single-span design: a 1@70'-0" cored slab (bridge 102) and a 1@80'-0" box beam (bridges 103 and 104) at their respective existing locations.</p> <p>The existing bridges discharged runoff directly into the creek(s) via deck drains; however, spread calculations indicate deck drains will not be required for the proposed bridges. Instead, runoff will collect via shoulder berm gutters into a storm drain system and discharge onto rip rap pads to dissipate energy before entering the surrounding wetlands. In addition, the proposed design does not require interior bents and reduces surface water impacts by removing all existing bents in the channels. Roadway improvements are designed to minimize water quality impacts by promoting sheet flow and infiltration along grassed shoulders, and the proposed guardrail decreases the embankment footprint. In addition, mechanized clearing within the surrounding wetlands are typically kept within five feet of the toe of the proposed roadway embankment and within ten feet of excavation limits at the bridge sites to minimize wetland impacts.</p> <p>Surface water impacts occur within a small backwater pool of SC at the northwest quadrant of bridge 102 where toe protection is anticipated and at the outfall end of a base ditch entering SA at the northeast quadrant of bridge 104. The cumulative total area of impacts equals less than 0.01 acres of permanent and less than 0.01 acres of temporary surface water impacts. Existing channel impacts equals approximately 21 linear feet of permanent and 15 feet of temporary impacts.</p>							

Waterbody Information

Surface Water Body (1):	Little Coharie Creek		NCDWR Stream Index No.:	18-68-1-17			
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?	No	Comments:					
NRTR Stream ID:	SA		Buffer Rules in Effect:		N/A		
Project Includes Bridge Spanning Water Body?	Yes	Deck Drains Discharge Over Buffer?	N/A		Dissipator Pads Provided in Buffer?		
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 2.02; Released April 2015)

WBS Element: 38584.1.2 **TIP No.:** B-4814 **County(ies):** Sampson **Page** 2 **of** 2

Additional Waterbody Information

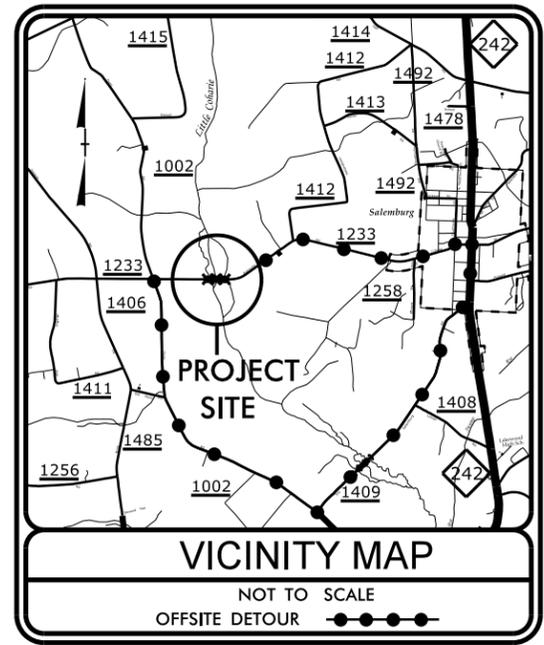
Surface Water Body (2):	Little Coharie Creek Overflow		NCDWR Stream Index No.:	18-68-1-17	
NCDWR Surface Water Classification for Water Body	Primary Classification:		Class C		
	Supplemental Classification:		Swamp Waters (Sw)		
Other Stream Classification:	None				
Impairments:	None				
Aquatic T&E Species?	No	Comments:			
NRTR Stream ID:	SB		Buffer Rules in Effect:	N/A	
Project Includes Bridge Spanning Water Body?	Yes	Deck Drains Discharge Over Buffer?	N/A	Dissipator Pads Provided in Buffer?	
		(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)	
Deck Drains Discharge Over Water Body?	No				
	(If yes, provide justification in the General Project Narrative)				

Surface Water Body (3):	Little Coharie Creek Overflow		NCDWR Stream Index No.:	18-68-1-17	
NCDWR Surface Water Classification for Water Body	Primary Classification:				
	Supplemental Classification:				
Other Stream Classification:	None				
Impairments:	None				
Aquatic T&E Species?	No	Comments:			
NRTR Stream ID:	SC		Buffer Rules in Effect:	N/A	
Project Includes Bridge Spanning Water Body?	Yes	Deck Drains Discharge Over Buffer?	N/A	Dissipator Pads Provided in Buffer?	
		(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)	
Deck Drains Discharge Over Water Body?	No				
	(If yes, provide justification in the General Project Narrative)				

Surface Water Body (4):	UT to Little Coharie Creek		NCDWR Stream Index No.:	18-68-1-17	
NCDWR Surface Water Classification for Water Body	Primary Classification:				
	Supplemental Classification:				
Other Stream Classification:	None				
Impairments:	None				
Aquatic T&E Species?	No	Comments:			
NRTR Stream ID:	SD		Buffer Rules in Effect:	N/A	
Project Includes Bridge Spanning Water Body?	No	Deck Drains Discharge Over Buffer?	N/A	Dissipator Pads Provided in Buffer?	
		(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)	
Deck Drains Discharge Over Water Body?	N/A				
	(If yes, provide justification in the General Project Narrative)				

09/06/14

See Sheet 1A For Index of Sheets
See Sheet 1B For Conventional Symbols



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
SAMPSON COUNTY

LOCATION: BRIDGES NO. 102, 103, AND 104 OVER
LITTLE COHARIE CREEK ON SR 1233 (AUTRYVILLE RD.)

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

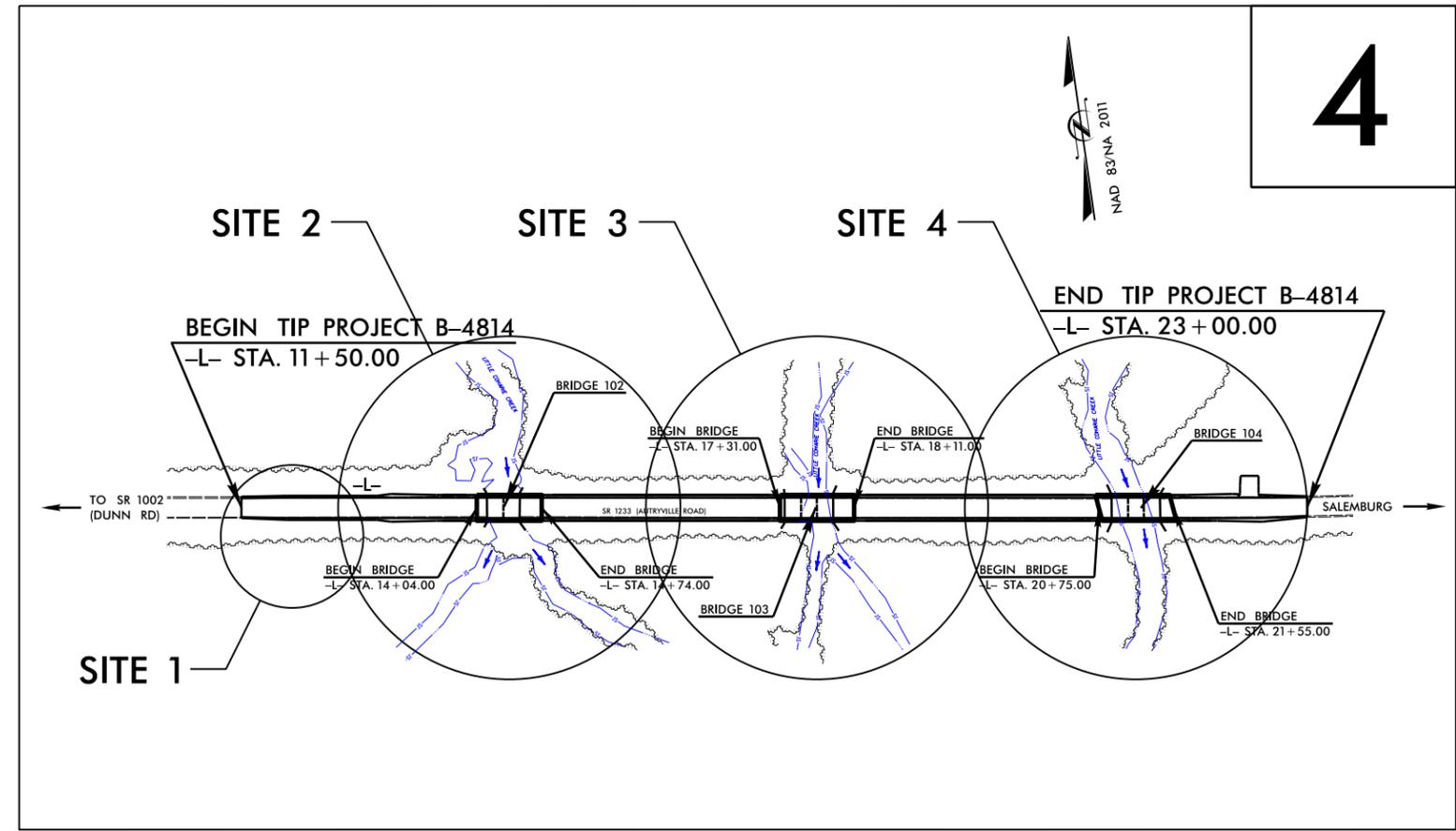
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4814	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
38584.1.2	BRZ-1233 (6)	PE	
38584.2.1	BRZ-1233 (6)	R\W & UTIL.	

PERMIT DRAWING
SHEET 1 OF 15



WETLAND AND SURFACE WATER IMPACTS PERMIT

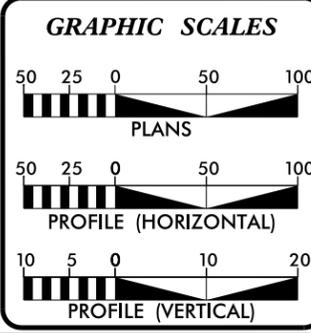
TIP PROJECT: B-4814



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

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

CONTRACT:



DESIGN DATA

ADT 2016	=	1,960
ADT 2036	=	2,740
K	=	12 %
D	=	55 %
T	=	7 % *
V	=	60 MPH

* (TTST 2% + DUALS 5%)
FUNC CLASS =
MINOR COLLECTOR
SUBREGIONAL TIER

PROJECT LENGTH

LENGTH OF ROADWAY PROJECT B-4814	=	0.174 MI
LENGTH OF STRUCTURE PROJECT B-4814	=	0.044 MI
LENGTH OF TOTAL PROJECT B-4814	=	0.218 MI

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

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
DECEMBER 31, 2015

LETTING DATE:
DECEMBER 20, 2016

GARY LOVERING, PE
PROJECT ENGINEER

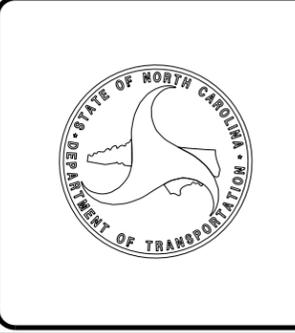
SUSAN C. LANCASTER, PE
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

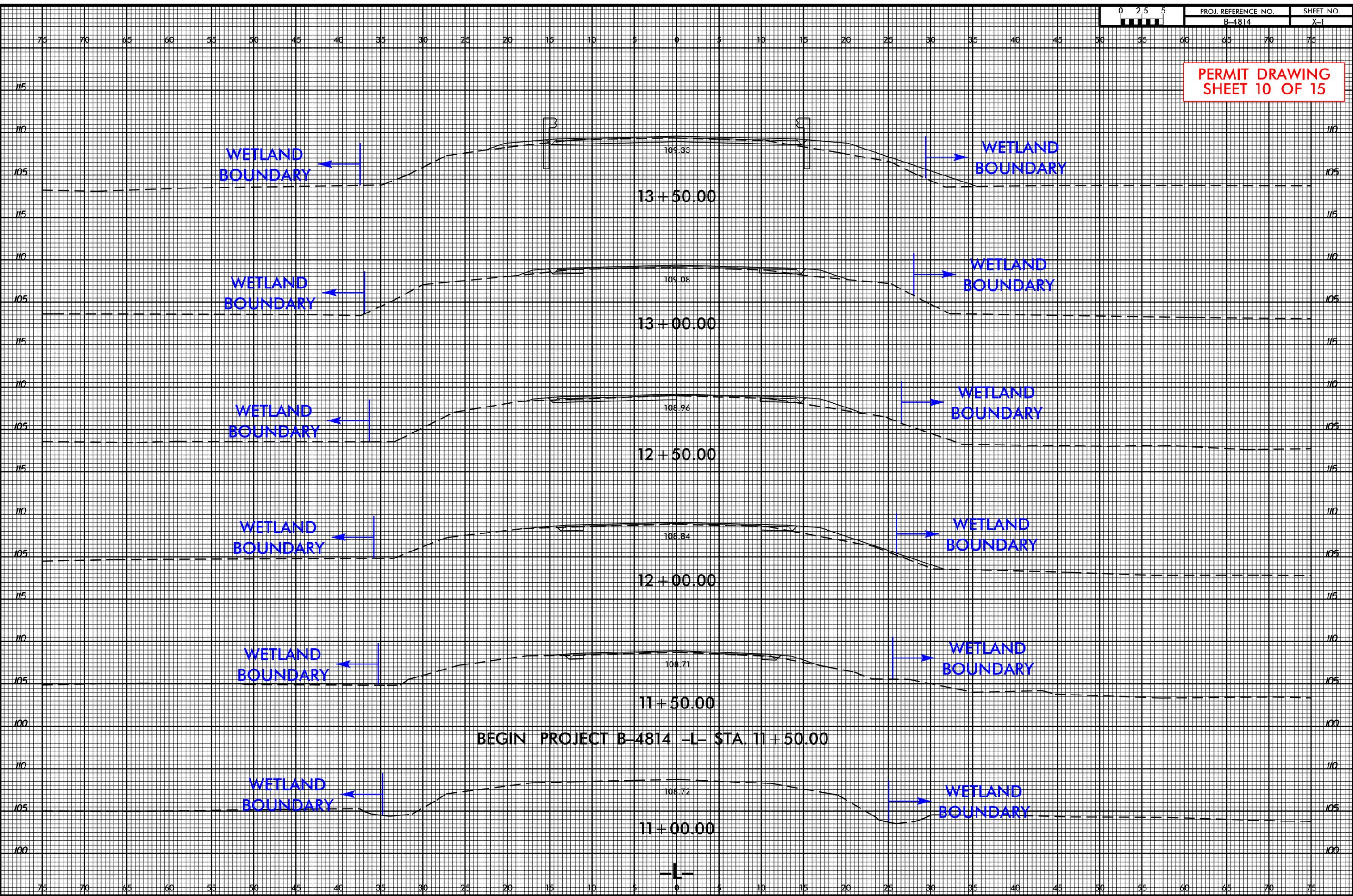
SIGNATURE: _____ P.E.



1/20/2016
ejhahn
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8/23/99

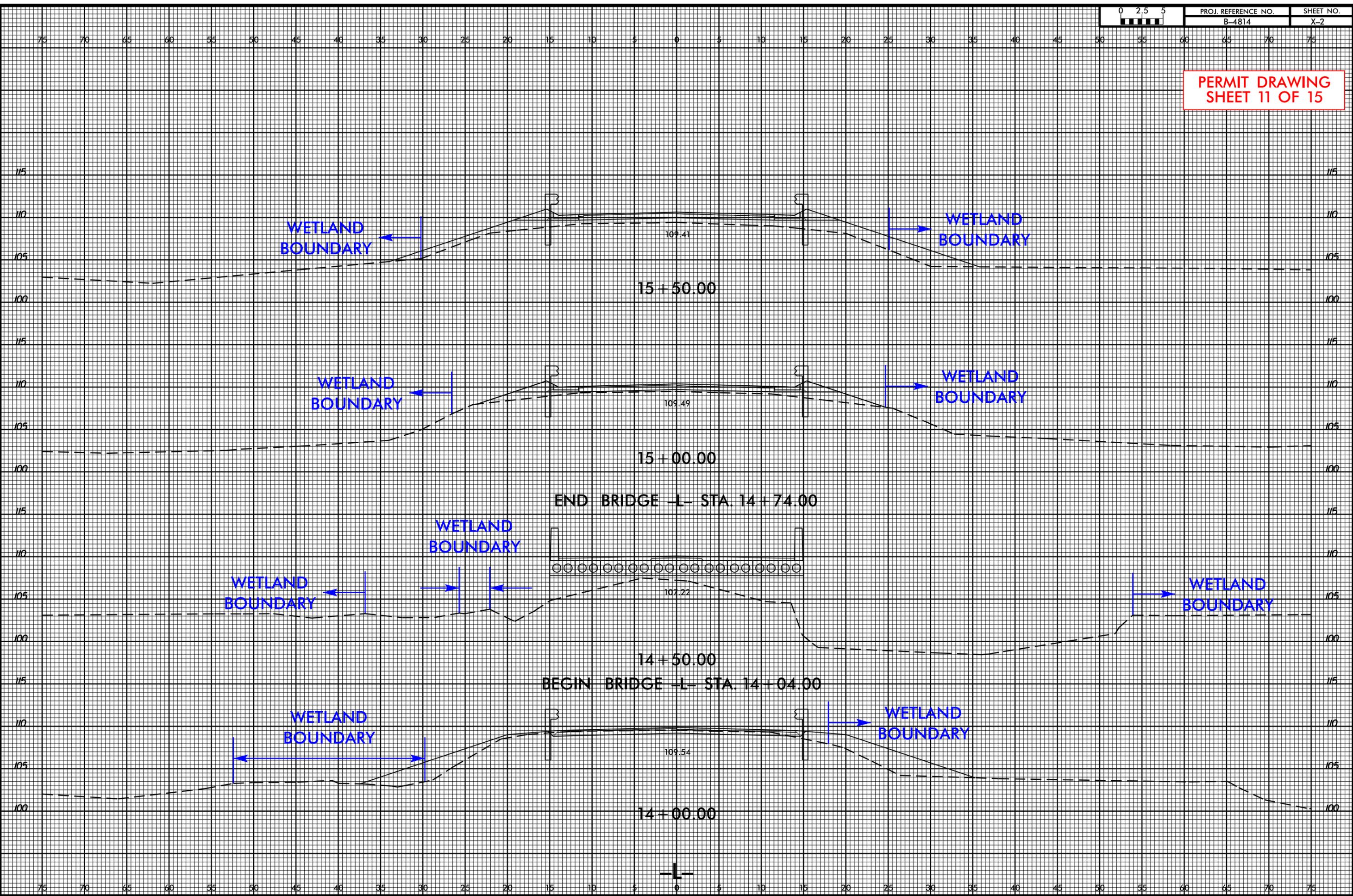
PERMIT DRAWING
SHEET 10 OF 15



12/02/06
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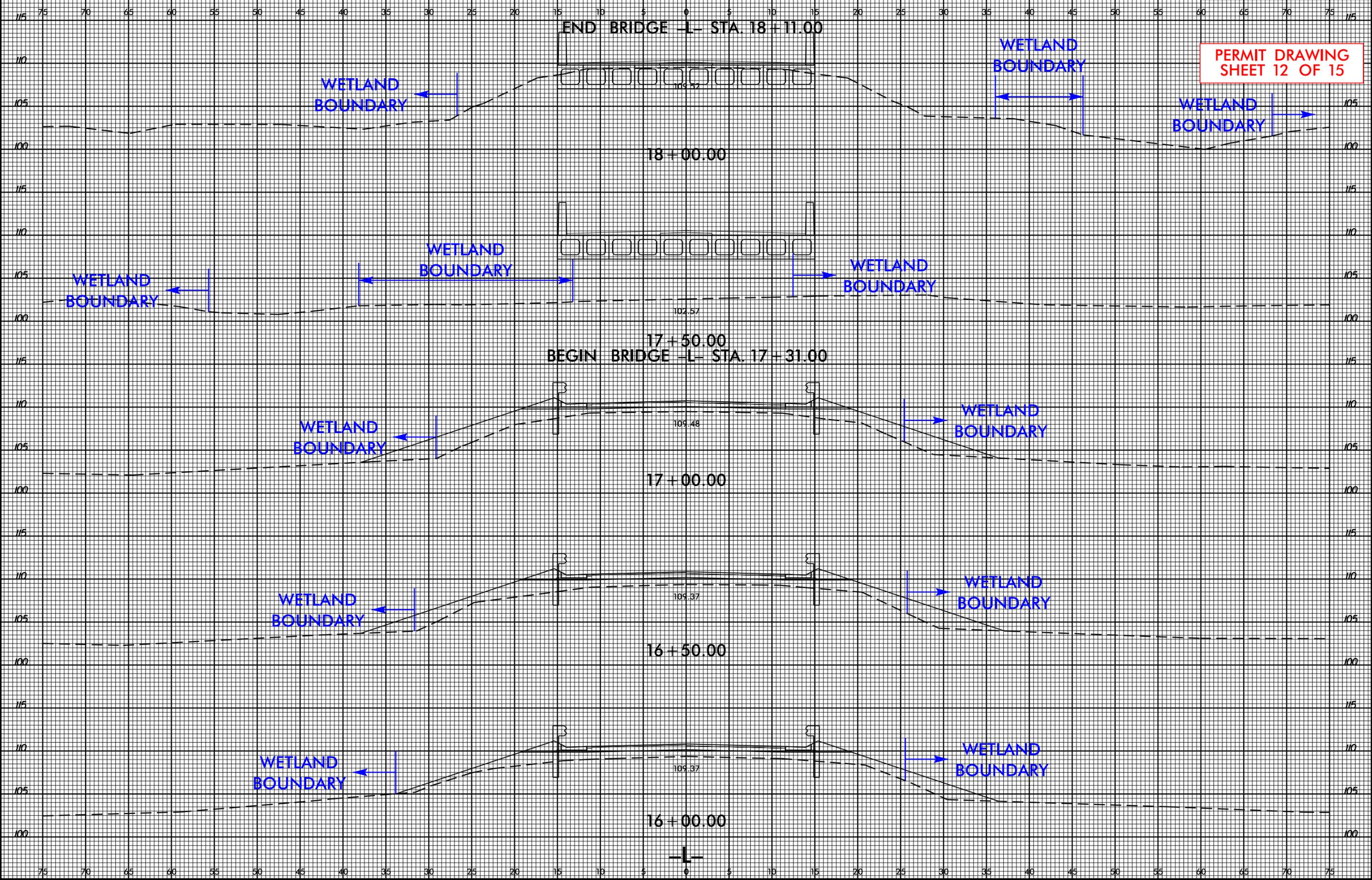
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PERMIT DRAWING
SHEET 11 OF 15



1/20/2016
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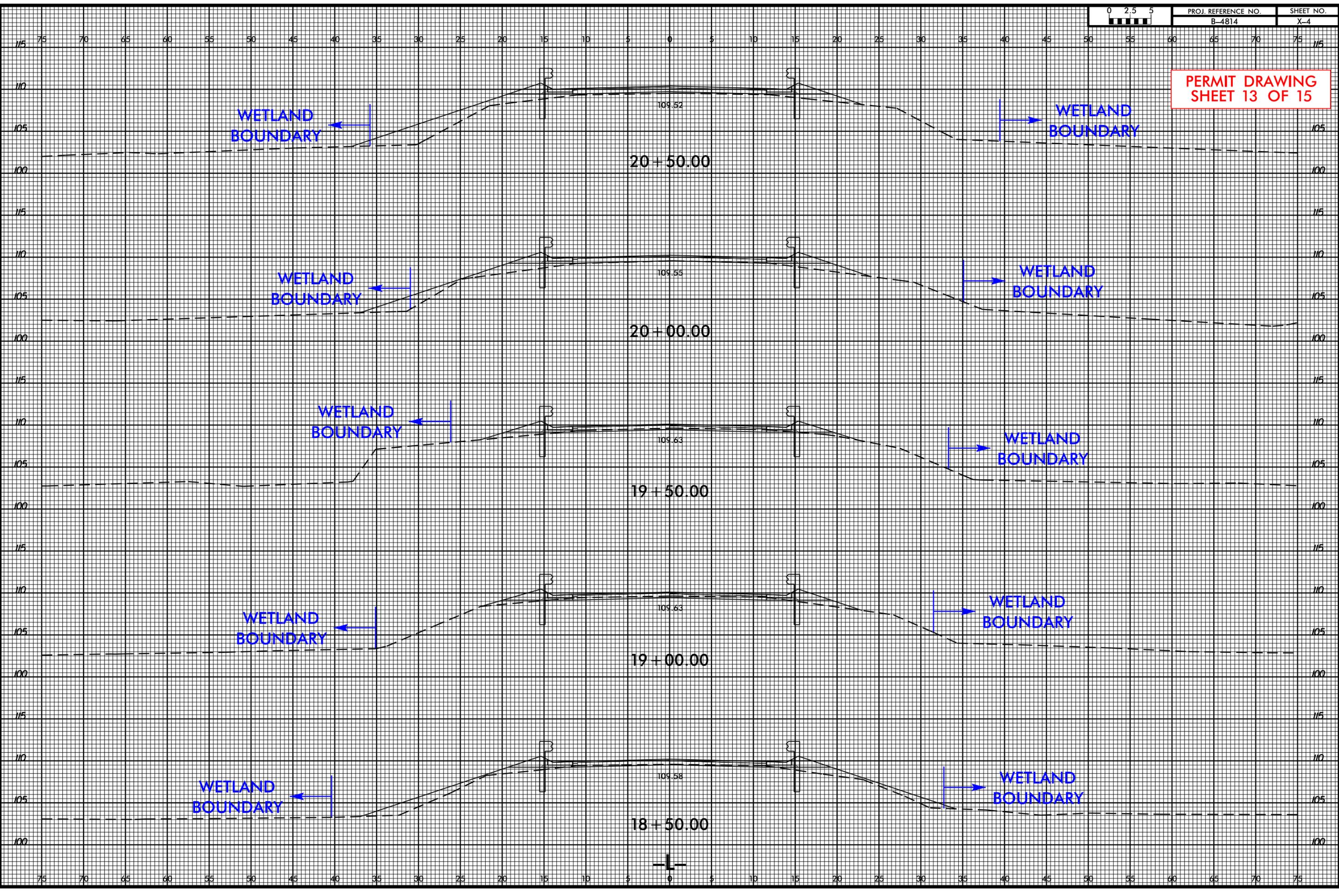


PERMIT DRAWING
SHEET 12 OF 15

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PERMIT DRAWING
SHEET 13 OF 15

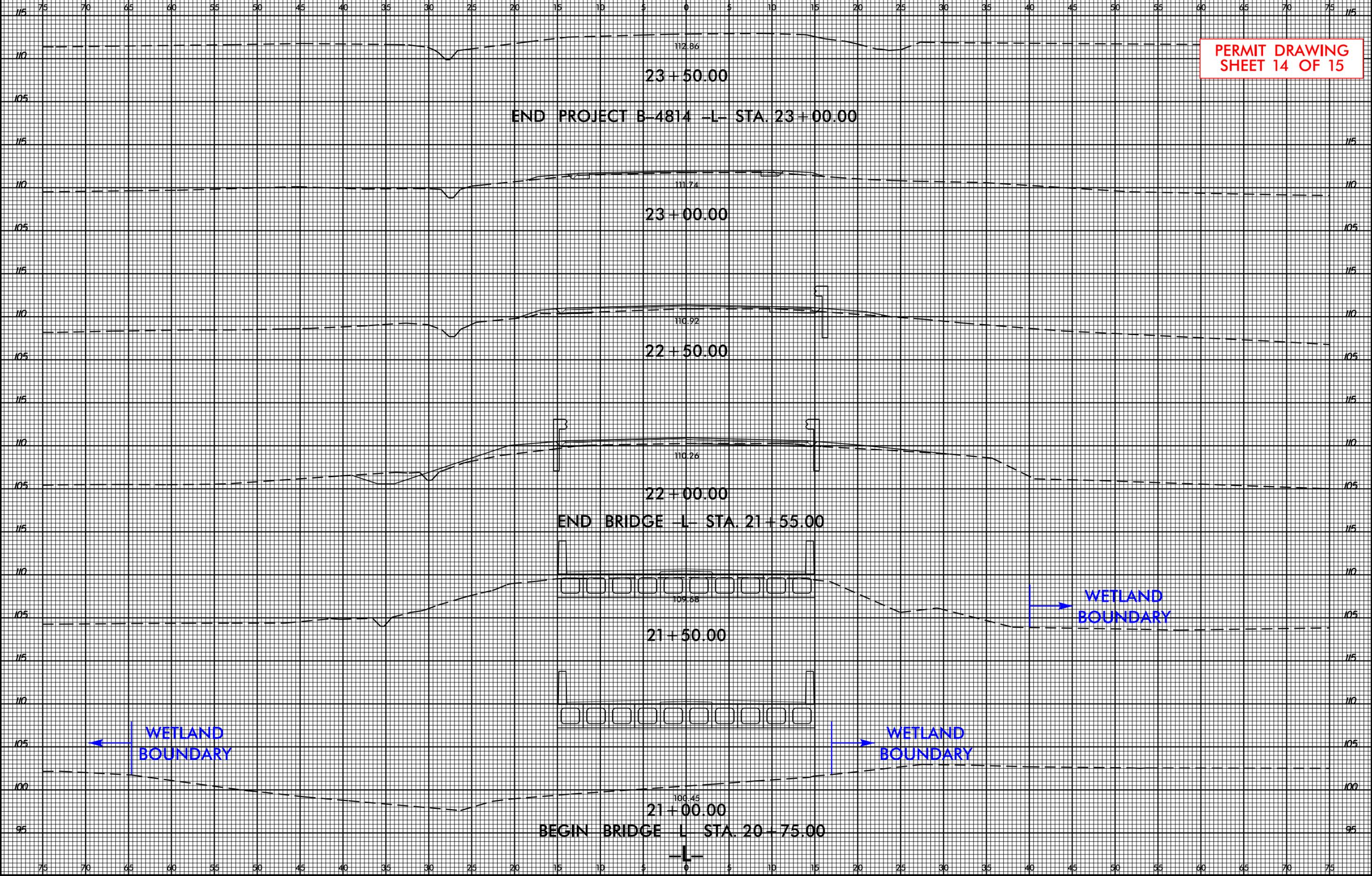


12/02/06
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 \$\$\$\$\$\$DGN\$\$\$\$\$\$
 \$\$\$\$\$\$USER\$\$\$\$\$\$

8/23/99



PROJ. REFERENCE NO.	SHEET NO.
B-4814	X-5



PERMIT DRAWING
 SHEET 14 OF 15

12/02/06
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WETLAND PERMIT IMPACT SUMMARY												
Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS					SURFACE WATER IMPACTS				
			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	-L- 11+60 to 12+60 RT	roadway embankment	< 0.01			0.01						
2	-L- 12+97 to 14+04 RT	roadway embankment	0.02			0.01						
	-L- 13+72 to 14+04 LT	roadway embankment	< 0.01			< 0.01		< 0.01	< 0.01			
	-L- 14+04 to 14+22 LT	bridge 102	< 0.01			< 0.01						
	-L- 14+04 to 14+26 RT	bridge 102	< 0.01		< 0.01	< 0.01						
	-L- 14+45 to 14+74 LT	bridge 102	< 0.01		< 0.01	< 0.01						
	-L- 14+58 to 14+74 RT	bridge 102	< 0.01		< 0.01	< 0.01						
	-L- 14+74 to 16+37 LT	roadway embankment	0.03			0.02						
	-L- 14+74 to 16+37 RT	roadway embankment	0.05		< 0.01	0.02						
3	-L- 16+37 to 17+31 LT	roadway embankment	0.02			0.01						
	-L- 16+37 to 17+31 RT	roadway embankment	0.03			0.01						
	-L- 17+31 to 17+62 LT	bridge 103	< 0.01			< 0.01						
	-L- 17+31 to 17+68 RT	bridge 103	< 0.01		< 0.01	< 0.01						
	-L- 17+81 to 18+11 LT	bridge 103			< 0.01	< 0.01						
	-L- 17+86 to 18+11 RT	bridge 103			< 0.01	< 0.01						
	-L- 18+11 to 19+19 LT	roadway embankment	0.01			0.01						
	-L- 18+11 to 18+99 RT	roadway embankment	< 0.01			0.01						
	-L- 19+06 to 19+27 RT	15-inch CMP	< 0.01			< 0.01						
4	-L- 19+47 to 20+65 LT	roadway embankment	0.01			0.01						
	-L- 20+60 to 20+88 RT	roadway embankment				< 0.01						
	-L- 20+62 to 20+93 LT	bridge 104				< 0.01						
	-L- 20+62 to 21+12 RT	bridge 104				< 0.01						
	-L- 21+05 to 21+17 LT	rip rap at embankment						< 0.01	< 0.01			
	-L- 21+11 to 21+68 LT	bridge 104			< 0.01	< 0.01						
	-L- 21+33 to 21+68 RT	bridge 104				< 0.01						
	-L- 21+65 to 21+76 RT	roadway embankment				< 0.01						
TOTALS*:			0.20		0.01	0.21		< 0.01	< 0.01			

*Rounded totals are sum of actual impacts

NOTES:

The division between sites two and three occurs at the proposed crest: approximate station 16+37 -L-

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 January 20, 2016
 Sampson County
 B-4814
 38584.1.2

09/08/99

See Sheet 1A For Index of Sheets
See Sheet 1B For Conventional Symbols

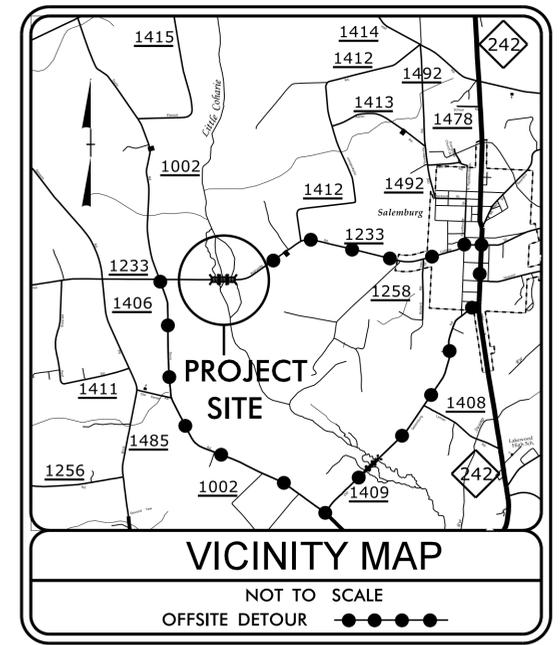
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SAMPSON COUNTY

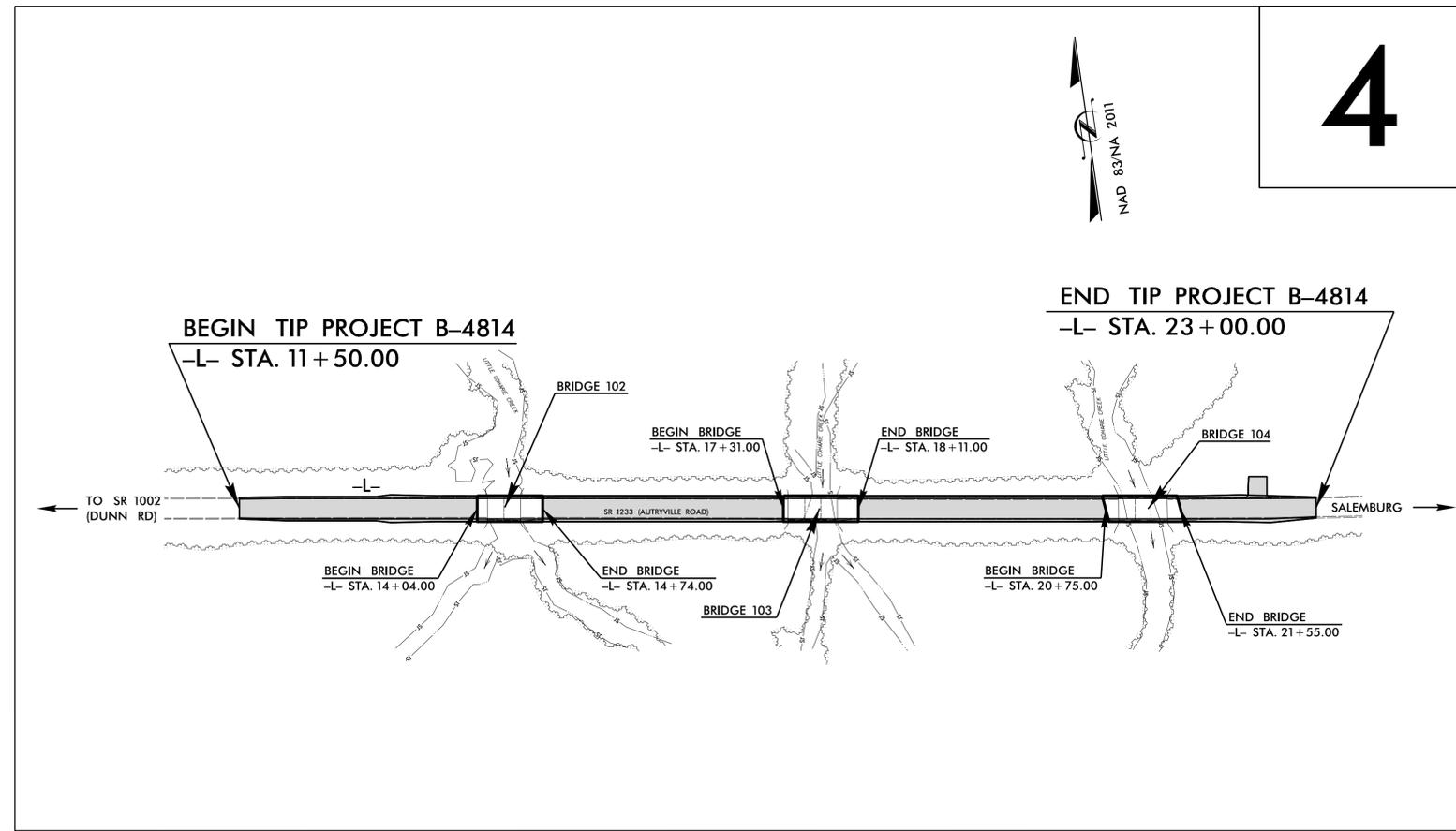
**LOCATION: BRIDGES NO. 102, 103, AND 104 OVER
LITTLE COHARIE CREEK ON SR 1233 (AUTRYVILLE RD.)**

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

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4814	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
38584.1.2	BRZ-1233 (6)	PE	
38584.2.1	BRZ-1233 (6)	R\W & UTIL.	



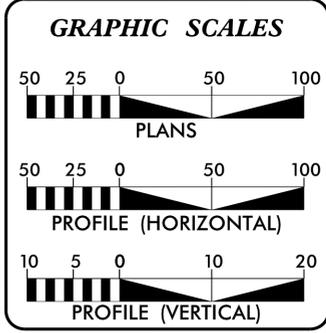
TIP PROJECT: B-4814



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

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

CONTRACT:



DESIGN DATA

ADT 2016 =	1,960
ADT 2036 =	2,740
K =	12 %
D =	55 %
T =	7 % *
V =	60 MPH
* (TTST 2% + DUALS 5%)	
FUNC CLASS =	MINOR COLLECTOR
	SUBREGIONAL TIER

PROJECT LENGTH

LENGTH OF ROADWAY PROJECT B-4814	=	0.174 MI
LENGTH OF STRUCTURE PROJECT B-4814	=	0.044 MI
LENGTH OF TOTAL PROJECT B-4814	=	0.218 MI

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

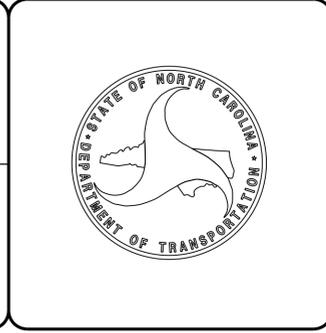
2012 STANDARD SPECIFICATIONS	
RIGHT OF WAY DATE: DECEMBER 31, 2015	GARY LOVERING, PE PROJECT ENGINEER
LETTING DATE: DECEMBER 20, 2016	SUSAN C. LANCASTER, PE PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: _____ P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: _____ P.E.



11-JAN-2016 10:23
R:\Roadway\Proj\B4814_Rdy_Tsh.dgn
\$\$\$\$\$USERNAME\$\$\$\$\$

12/05/11

Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	○ EP
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 ---
Known Soil Contamination: Area or Site	☠ ☠
Potential Soil Contamination: Area or Site	☠ ? ☠ ?

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	← FLOW
False Sump	▽

RAILROADS:

Standard Gauge	-----
RR Signal Milepost	○ CSX TRANSPORTATION 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	----- (RW)
Proposed Right of Way Line with Iron Pin and Cap Marker	----- (RW) ▲
Proposed Right of Way Line with Concrete or Granite RW Marker	----- (RW) ●
Proposed Control of Access Line with Concrete CA Marker	----- (CA) ●
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 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	□

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:

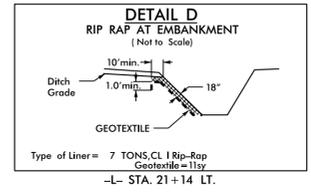
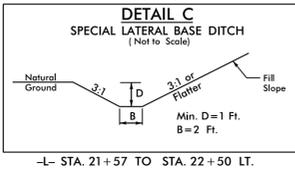
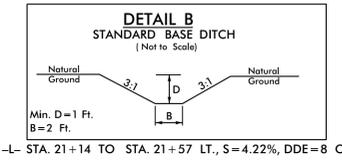
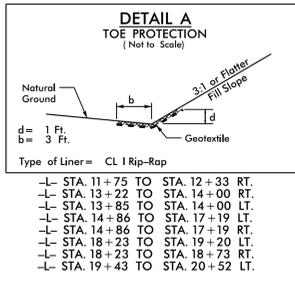
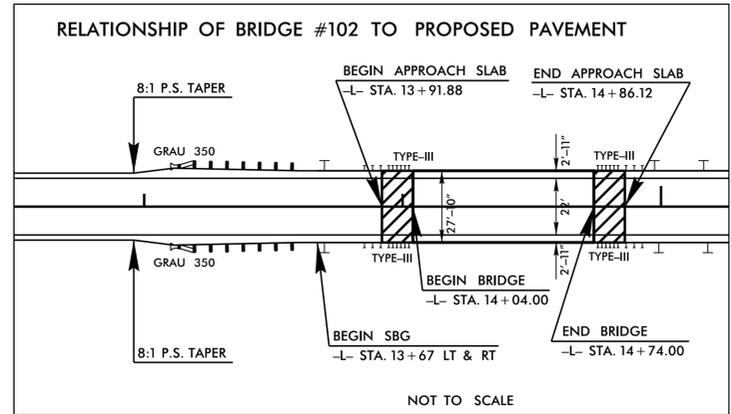
Gas Valve	◇
Gas Meter	⊕
Recorded U/G Gas Line	----- G
Designated U/G Gas Line (S.U.E.*)	----- G
Above Ground Gas Line	----- A/G Gas

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	----- ?U/L
U/G Tank; Water, Gas, Oil	□
Underground Storage Tank, Approx. Loc.	⊕
A/G Tank; Water, Gas, Oil	□
Geoenvironmental Boring	⊕
U/G Test Hole (S.U.E.*)	⊕
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.

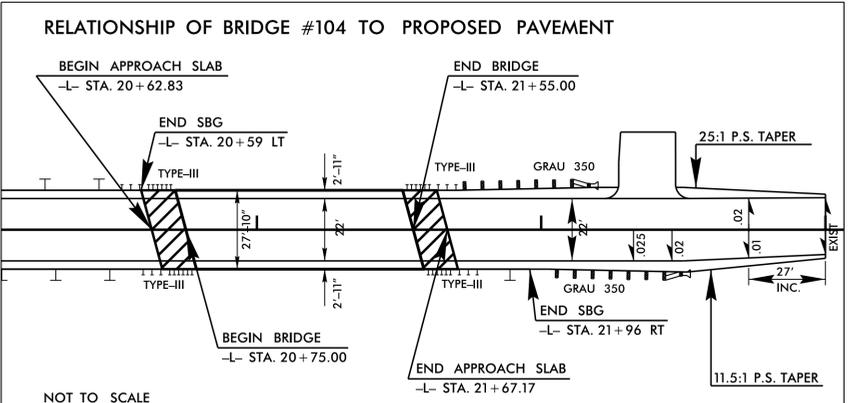
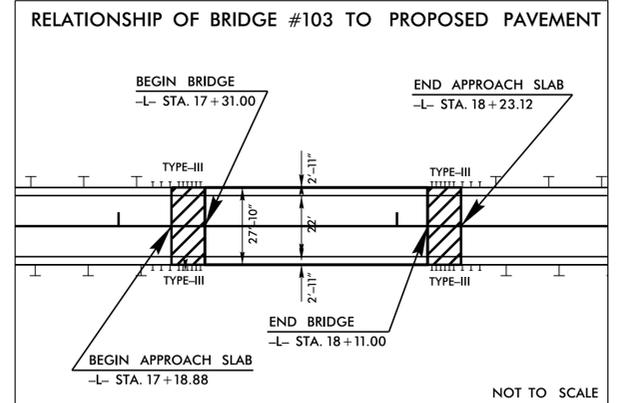
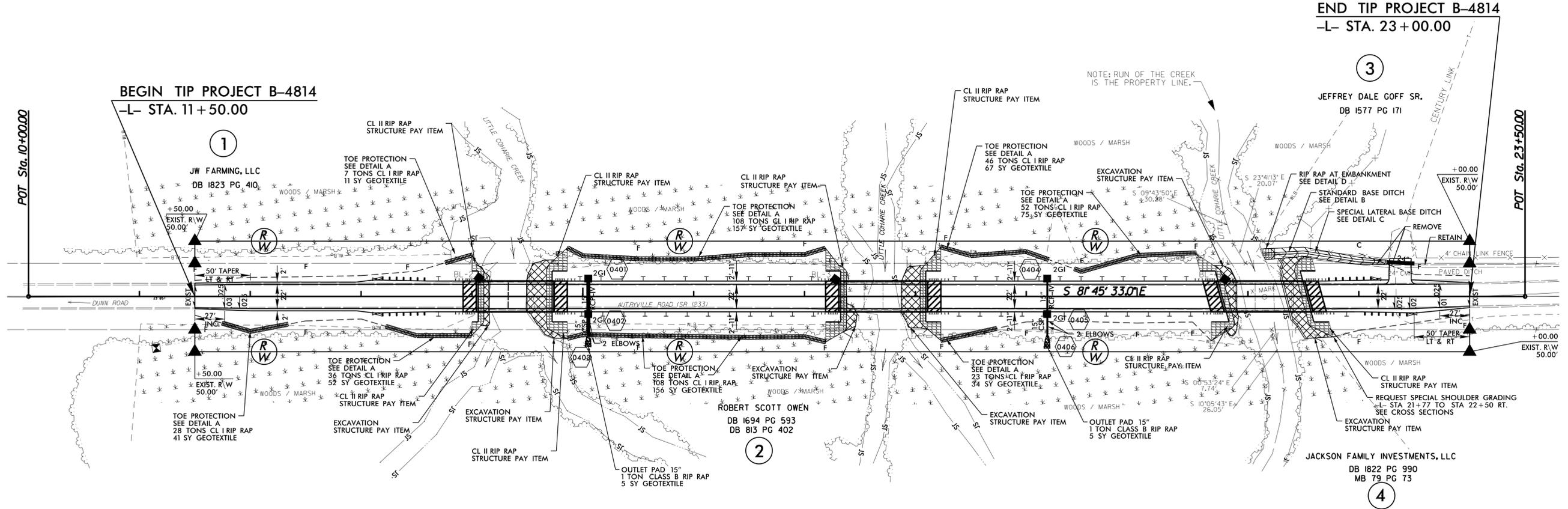


10

15

20

NAD 83 / NA 2011



FOR -L- PROFILE, SEE SHEET 5

BRIDGE APPROACH SLAB

FOR STRUCTURE PLANS, SEE SHEET S-1 THROUGH S-XX

REVISIONS

8/17/99
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