Sent 3-30-16

Corps Submittal Cover Sheet

Please provide the following info:

1. Project Name Bridge 310 on SR 1348 (Laurel Branch Road)
2. Name of Property Owner/Applicant: NC Department of Transportation
3. Name of Consultant/Agent: N/A

   *Agent authorization needs to be attached.
4. Related/Previous Action ID number(s): N/A
5. Site Address: N/A
6. Subdivision Name: N/A
7. City: White Oak Community near Maggie Valley
8. County: Haywood
9. Lat: 35.63524° N Long: -82.99932° W (Approx. Project Center)
10. Quadrangle Name: Cove Creek Gap (35083-F1-TF-024)
11. Waterway: Laurel Branch (C)
12. Watershed: French Broad River (06010106)
13. Requested Action:

    _X_ Nationwide Permit # _3_

    ___ General Permit # _____

    ___ Jurisdictional Determination Request

    ___ Pre-Application Request

The following information will be completed by Corps office:

AID: _____

_____Prepare File Folder _____ Assign number in ORM _____ Begin Date

Authorization: ____ Section 10 ____ Section 404

Project Description/ Nature of Activity/ Project Purpose:

_____

Site/Waters Name: _____

Keywords: _____

Transportation

PAT McCRORY
Governor

NICHOLAS J. TENNYSON
Secretary

March 29, 2016

Ms. Lori Beckwith, NCDOT Regulatory Project Manager
U. S. Army Corps of Engineers
151 Patton Avenue, Room 208
Asheville, NC 28801-2714

Subject: Nationwide 3 Permit Application
Replace Bridge No. 310 on SR 1348 (Laurel Branch Road) over Laurel Branch
Haywood County
State Project No. 17BP.14.R.128 (BD14A-430310)
(DWQ Minor Permit Fee $240.00)

Dear Ms. Beckwith:

The North Carolina Department of Transportation (NCDOT) is proposing to replace the subject bridge. The existing 20'W x 20.5' L timber bridge needs to be replaced due to deterioration and structural deficiency. The proposed replacement structure will be a 14' W x 2.5' H x 74' L bottomless reinforced concrete box culvert on the existing location and 145° skew. SR 1348 is a dead-end road, so stage construction will be used to route traffic during construction. A short channel relocation is proposed upstream of the bridge to eliminate a sharp bend in the stream channel that is near the road shoulder and to align the culvert inlet with the stream.

Enclosed are a PCN application, Preliminary Jurisdictional Form, SHPO forms, plan sheets showing the proposed work, a USGS quad map, photographs, and other pertinent project information.

The North Carolina Natural Heritage Program database was checked for records of threatened and endangered species. There are 51 species listed for Haywood County that have federal status. The bog turtle (*Glyptemys muhlenbergii*) is listed as threatened due to similarity of appearance to the listed northern bog turtle. Bald eagle (*Haliaeetus* leucocephalus) is listed under the Bald and Golden Eagle Protection Act (HGPA). Nine species, Carolina northern flying squirrel (*Glaucomys sabrinus coloratus*), gray bat (*Myotis grisescens*), Indiana bat (*Myotis sodalis*), northern long-eared bat (*Myotis septentrionalis*, NLEB), Appalachian elktoe (*Alasmidonta raveneliana),* spruce-fir moss spider (*Microhexura montivaga*), small whorled pogonia (*Isotria medeoloides*), spreading avens (*Geum radiatum*), and rock gnome lichen (*Gymnoderma lineare*), are known from current records and are listed as either threatened or endangered. According to the USFWS, Haywood County is now considered occupied summer range for Indiana bats and NLEB.

Appalachian elktoe are found in some well-oxygenated streams with moderate to fast flowing water and stable, mixed substrates of silt, sand, gravel, and/or cobble. Streams that support this mussel are typically much larger than Laurel Branch. The only records in Haywood County are from the Pigeon River and the lower portions of the East Fork Pigeon and West Fork Pigeon

State of North Carolina | Department of Transportation | Division 14
253 Webster Road | Sylva, North Carolina 28779
Phone 828-586-2141 | Fax 828-586-4043

rivers upstream of Canton; there are no records from any tributaries to these rivers. The bridge is 0.35 miles upstream of the Pigeon River and this reach of the river is over 17 river miles downstream of occupied mussel habitat.

With rare exception, gray bats roost in caves year-round and Indiana bats and NLEB winter in caves or mines with stable, but not freezing, cold temperatures. This project only involves a small bridge replacement, so construction work will not extend far from the existing right-of-way into areas where caves could occur. There are no caves or mines visible near the bridge and, according to USGS data, the nearest underground mine is over 3.2 miles away. Therefore, gray bats and hibernating Indiana bats and NLEB will not be affected by the project.

In summer, Indiana bats and NLEB generally roost on structures or under the loose bark of trees, either dead with peeling bark or cavities, or live trees with shaggy bark such as white oak, maples, sycamore and hickories. The bridge was surveyed on June 1, 2015 and there were no roosting bats or any evidence of bat usage (i.e. staining or guano). The structure is only 2-3 feet above the water surface and very cool underneath. There are no known NLEB hibernacula or maternity roost trees within 0.25 mile or 150 feet, respectively, of the bridge site. Therefore, the project should be consistent with exceptions for incidental take outlined in the NLEB Final 4(d) rule which went into effect February 16, 2016. The construction work may require the removal of 6 large bradford pear trees near the bridge. To protect Indiana bats, any obstructing trees will be removed from October 15 to April 15 (winter clearing). With this measure, we recommend a "**may affect, not likely to adversely affect**" determination for Indiana bat.

Small whorled pagonia generally occurs in open, dry, deciduous woods with acid soil, though habitats can include slopes along streams and mesic forest with white pine and rhododendron. Land use adjacent to the bridge consists of maintained road shoulders, a lawn, a driveway, and a goat pasture. There is a narrow fringe of wooded habitat along the stream downstream of the bridge, but this area is damp and heavily shaded with rhododendron. No small whorled pagonia were seen on site visits. And, the nearest record for this plant is over 8 miles from the project.

The Carolina northern flying squirrel, rock gnome lichen, spruce-fir moss spider and spreading avens are found in spruce-fir forests and other isolated high elevation locations in western North Carolina. However, rock gnome lichen is an exception because it can occasionally be found at lower elevations in deep river gorges with high humidity or on some vertical rock faces that are periodically wet. The bridge site has an elevation of only 2,440 feet and lacks rock faces and other habitat conditions required by these species.

The project is limited in scope. Erosion and sedimentation control measures will be implemented to minimize adverse effects of the work on aquatic habitats. Habitats for listed species appear lacking at the project site and none of these species were observed during field visits. For these reasons and those discussed above, we recommend that a determination of "**no effect**" on listed species apply to this project, except for NLEB and Indiana bat as described above.

This project was reviewed by NCDOT's Human Environment Unit in 2011. Surveys were not required for historic architecture or archaeology with determinations of "**no effect**" (see attached forms).

NCDOT best management practices will be used to minimize and control sedimentation and erosion on this project. The construction foreman will review all erosion control measures daily to ensure sedimentation and erosion controls are being effectively controlled. If the devices are not functioning as intended, they will be replaced immediately with better devices.

Impacts to Waters of the United States

Laurel Branch (DWQ Class: C) is shown on the USGS topographic map as a perennial stream. The channel is well defined with a substrate of sand, silt, cobble and bedrock and is approximately 8 feet in width. The stream has sufficient flow to support fish and other aquatic life. Laurel Branch flows to the Pigeon River. The Pigeon River meets the definition of a Traditional Navigable Water (TNW). For these reasons, we believe Laurel Branch is a Relatively Permanent Water (RPW) and is under the jurisdiction of the U.S. Army Corps of Engineers. In order to construct the project, it will be necessary to impact waters of the United States in the French Broad River Basin (CU 06010106). Specifically, NCDOT is requesting to replace Bridge No. 310 with a bottomless concrete culvert. Listed below is a summary of the proposed impacts.

Site No.	Existing Condition	Proposed Condition	Net Impacts (feet)
1	20'W x 20.5' L Timber Bridge	14' W x 2.5' H x 74' L **Bottomless** Reinforced Concrete Box Culvert	0
1A	Free Flowing Stream	Impervious Dikes and Flow Diversions	200
1B	Free Flowing Stream (Existing 40')	Channel Change/Relocation (New 30')	30
1C	Free Flowing Stream	Floodplain Bench and Riprap Bank Stabilization (Inlet End)	48'
1D	Free Flowing Stream	Floodplain Bench Riprap Bank Stabilization (Outlet End)	65'

Total Permanent Stream and Tributary Impacts for Bottomless Culvert 0'
Total Temporary Stream Impacts for Impervious Dike and Flow Diversion 200'
Total Permanent Stream and Tributary Impact for Channel Change 30'
Total Permanent Impact for Bank Stabilization and Floodplain Benches 113'

Permits Requested

NCDOT is hereby requesting authorization under Section 404 of the Clean Water Act to proceed with the construction project outlined above. By copy of this letter, I am asking Ms. Marla Chambers, Western NCDOT Review Coordinator, of the North Carolina Wildlife Resources Commission (NCWRC) to comment directly to you concerning the 404 Nationwide Permit request.

I am also requesting authorization under Section 401 of the Clean Water Act from the North Carolina Department of Environmental Quality (DEQ), Division of Water Resources (DWR). In addition, I am asking Ms. Chambers and Mr. Ben DeWit, EI, Roadside Environmental Field Operations Engineer (NCDOT), to comment directly to me concerning this permit request.

If you have any questions or need additional information, please contact Mr. Josh Deyton at (828) 488-2131 or me at (828) 586-2141. Your early review and consideration will be greatly appreciated.

Sincerely,

Dave McHenry
Division 14 Environmental Specialist

Enclosures

cc: Ms. Amy Chapman, Division of Water Resources – DEQ, Raleigh
Ms. Kristi Carpenter, Division of Water Resources – DEQ, Raleigh
Mr. Kevin Barnett, Division of Water Resources – DEQ, Asheville
Mr. Andrew Henderson, Biologist, US Fish &Wildlife Service, Asheville
Ms. Marla Chambers, Western NCDOT Review Coordinator, NCWRC, Albemarle
Mr. Josh Deyton, PE, Division 14 Bridge Program Manager, NCDOT, Bryson City
Mr. Ben DeWit, PE, Roadside Environmental Field Operations Engineer, NCDOT
Mr. Michael J. Shumsky, PE, Design-Build Engineer, NCDOT, Raleigh

Office Use Only:
Corps action ID no. _____
DWQ project no. _____
Form Version 1.3 Dec 10 2008

Pre-Construction Notification (PCN) Form

A. Applicant Information

1. Processing

1a. Type(s) of approval sought from the Corps:	☒ Section 404 Permit	☐ Section 10 Permit
1b. Specify Nationwide Permit (NWP) number: 3	or General Permit (GP) number:	
1c. Has the NWP or GP number been verified by the Corps?	☐ Yes	☒ No

1d. Type(s) of approval sought from the DWQ (check all that apply):

☒ 401 Water Quality Certification – Regular ☐ Non-404 Jurisdictional General Permit

☐ 401 Water Quality Certification – Express ☐ Riparian Buffer Authorization

1e. Is this notification solely for the record because written approval is not required?	For the record only for DWQ 401 Certification: ☐ Yes ☒ No	For the record only for Corps Permit: ☐ Yes ☒ No
1f. Is payment into a mitigation bank or in-lieu fee program proposed for mitigation of impacts? If so, attach the acceptance letter from mitigation bank or in-lieu fee program. **(NC Division of Mitigation Services)**		☐ Yes ☒ No
1g. Is the project located in any of NC's twenty coastal counties. If yes, answer 1h below.		☐ Yes ☒ No
1h. Is the project located within a NC DCM Area of Environmental Concern (AEC)?		☐ Yes ☒ No

2. Project Information

2a. Name of project:	Replace Bridge No. 310 on SR 1348 (Laurel Branch Road) over Laurel Branch
2b. County:	Haywood
2c. Nearest municipality / town:	White Oak Community near Maggie Valley
2d. Subdivision name:	N/A
2e. NCDOT only, T.I.P. or **State Project No:**	17BP.14.R.128 (Design Build Contract)

3. Owner Information

3a. Name(s) on Recorded Deed:	North Carolina Department of Transportation
3b. Deed Book and Page No.	N/A
3c. Responsible Party (for LLC if applicable):	Dave McHenry, Division 14 Environmental Specialist
3d. Street address:	253 Webster Rd.
3e. City, state, zip:	Sylva, NC 28779
3f. Telephone no.:	828-586-2141
3g. Fax no.:	828-586-4043
3h. Email address:	dgmchenry@ncdot.gov

4. Applicant Information (if different from owner)	
4a. Applicant is:	☐ Agent ☐ Other, specify:
4b. Name:	N/A
4c. Business name (if applicable):	N/A
4d. Street address:	N/A
4e. City, state, zip:	N/A
4f. Telephone no.:	N/A
4g. Fax no.:	N/A
4h. Email address:	N/A
5. Agent/Consultant Information (if applicable)	
5a. Name:	N/A
5b. Business name (if applicable):	N/A
5c. Street address:	N/A
5d. City, state, zip:	N/A
5e. Telephone no.:	N/A
5f. Fax no.:	N/A
5g. Email address:	N/A

B. Project Information and Prior Project History		
1. Property Identification		
1a. Property identification no. (tax PIN or parcel ID):	N/A	
1b. Site coordinates (in decimal degrees):	Latitude: 35.63524	Longitude: -82.99932
1c. Property size:	N/A acres	
2. Surface Waters		
2a. Name of nearest body of water (stream, river, etc.) to proposed project:	Laurel Branch	
2b. Water Quality Classification of nearest receiving water:	C	
2c. River basin:	French Broad River Basin (HUC 06010106)	
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 site includes a timber bridge on a paved secondary road. Landscape is primarily forest, small farms, and single-family residential.		
3b. List the total estimated acreage of all existing wetlands on the property: N/A		
3c. List the total estimated linear feet of all existing streams (intermittent and perennial) on the property: 200		
3d. Explain the purpose of the proposed project: To replace the existing structurally deficient timber bridge no. 430310 with a 14' W x 2.5' H x 74' L bottomless box culvert on existing location.		
3e. Describe the overall project in detail, including the type of equipment to be used: The culvert will be stage constructed to the upstream side of the old bridge in order to maintain traffic during construction. Erosion and sedimentation measures will be installed. A short channel reach will be changed to protect the road shoulder and better align with the culvert inlet. Once complete, traffic will be placed on part of the new culvert and the old bridge will be removed. The new culvert will then be completed downstream. Track hoes, heavy equipment, sandbags, diversion pipe and various hand tools 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: N/A	☐ Yes ☒ No ☐ Unknown	
4b. If the Corps made the jurisdictional determination, what type of determination was made?	☐ Preliminary ☐ Final	
4c. If yes, who delineated the jurisdictional areas? Name (if known): N/A	Agency/Consultant Company: N/A Other: N/A	
4d. If yes, list the dates of the Corps jurisdictional determinations or State determinations and attach documentation. N/A		
5. Project History		
5a. Have permits or certifications been requested or obtained for this project (including all prior phases) in the past?	☐ Yes ☒ No ☐ Unknown	
5b. If yes, explain in detail according to "help file" instructions.		
6. Future Project Plans		
6a. Is this a phased project?	☐ Yes ☒ No	
6b. If yes, explain.		

C. Proposed Impacts Inventory

1. Impacts Summary

1a. Which sections were completed below for your project (check all that apply):

☐ Wetlands ☒ Streams - tributaries ☐ Buffers

☐ Open Waters ☐ Pond Construction

2. Wetland Impacts

If there are wetland impacts proposed on the site, then complete this question for each wetland area impacted.

2a. Wetland impact number – Permanent (P) or Temporary (T)	2b. Type of impact	2c. Type of wetland (if known)	2d. Forested	2e. Type of jurisdiction (Corps - 404, 10 DWQ – non-404, other)	2f. Area of impact (acres)
W1 ☐ P ☐ T	N/A	N/A	☐ Yes ☐ No	☐ Corps ☐ DWQ	N/A
W2 ☐ P ☐ T			☐ Yes ☐ No	☐ Corps ☐ DWQ	
W3 ☐ P ☐ T			☐ Yes ☐ No	☐ Corps ☐ DWQ	
W4 ☐ P ☐ T			☐ Yes ☐ No	☐ Corps ☐ DWQ	
W5 ☐ P ☐ T			☐ Yes ☐ No	☐ Corps ☐ DWQ	
W6 ☐ P ☐ T			☐ Yes ☐ No	☐ Corps ☐ DWQ	
				2g. Total wetland impacts	N/A

2h. Comments: N/A

3. Stream Impacts

If there are perennial or intermittent stream impacts (including temporary impacts) proposed on the site, then complete this question for all stream sites impacted.

3a. Stream impact number - Permanent (P) or Temporary (T)	3b. Type of impact	3c. Stream name	3d. Perennial (PER) or intermittent (INT)?	3e. Type of jurisdiction (Corps - 404, 10 DWQ – non-404, other)	3f. Average stream width (feet)	3g. Impact length (linear feet)
S1 ☒ P ☐ T	Bottomless Culvert	Laurel Branch	☒ PER ☐ INT	☒ Corps ☒ DWQ	8	0
S1A ☐ P ☒ T	Impervious Dikes and Flow Diversions	Laurel Branch	☒ PER ☐ INT	☒ Corps ☒ DWQ	8	200
S1B ☒ P ☐ T	Channel Relocation (Culvert)	Laurel Branch	☒ PER ☐ INT	☒ Corps ☒ DWQ	8	30
S1C ☒ P ☐ T	Floodplain Benches/Rip Rap (Inlet)	Laurel Branch	☒ PER ☐ INT	☒ Corps ☒ DWQ	8	48
S1D ☒ P ☐ T	Floodplain Benches/Rip Rap (Outlet)	Laurel Branch	☒ PER ☐ INT	☒ Corps ☒ DWQ	8	65

3h. Total Permanent Stream and Tributary Impacts for Bottomless Culvert **0'**
Total Temporary Stream Impacts for Impervious Dike and Flow Diversion **200'**
Total Permanent Stream and Tributary Impact for Channel Change **30'**
Total Permanent Impact for Bank Stabilization and Floodplain Benches **113'**

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 ☐ P ☐ T	N/A	N/A	N/A	N/A
O2 ☐ P ☐ T				
O3 ☐ P ☐ T				
O4 ☐ P ☐ T				
			4f. Total open water impacts	N/A

4g. Comments: N/A

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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
P2								
	5f. Total	N/A	N/A	N/A	N/A	N/A	N/A	N/A

5g. Comments: N/A

5h. Is a dam high hazard permit required?	☐ Yes ☒ No If yes, permit ID no: N/A
5i. Expected pond surface area (acres):	N/A
5j. Size of pond watershed (acres):	N/A
5k. Method of construction:	N/A

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? N/A	☐ Neuse ☐ Catawba ☐ Tar-Pamlico ☐ Randleman ☐ Other:

6b. Buffer impact number – Permanent (P) or Temporary (T)	6c. Reason for impact	6d. Stream name	6e. Buffer mitigation required?	6f. Zone 1 impact (square feet)	6g. Zone 2 impact (square feet)
B1 ☐ P ☐ T	N/A	N/A	☐ Yes ☐ No	N/A	N/A
B2 ☐ P ☐ T			☐ Yes ☐ No		
B3 ☐ P ☐ T			☐ Yes ☐ No		
		6h. **Total buffer impacts**		N/A	N/A

6i. Comments: N/A

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 bottomless culvert was designed to meet the hydraulic needs of the site. This culvert should not impede or impair aquatic life passage because a roughened channel will remain.		
1b. Specifically describe measures taken to avoid or minimize the proposed impacts through construction techniques. All instream work will be performed in a dry work area using impervious dikes and diversions to divert the water around the project site. Appropriate BMPs according to the approved erosion and sedimentation control plan will be installed on the project prior to culvert installation.		
2. Compensatory Mitigation for Impacts to Waters of the U.S. or Waters of the State		
2a. Does the project require Compensatory Mitigation for impacts to Waters of the U.S. or Waters of the State?	☐ Yes ☒ No	
2b. If yes, mitigation is required by (check all that apply):	☐ DWQ ☐ Corps	
2c. If yes, which mitigation option will be used for this project?	☐ Mitigation bank ☐ Payment to in-lieu fee program **(NCDMS)** ☐ Permittee Responsible Mitigation	
3. Complete if Using a Mitigation Bank		
3a. Name of Mitigation Bank: N/A		
3b. Credits Purchased (attach receipt and letter)	Type N/A	Quantity N/A
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):	N/A square feet	
4e. Riparian wetland mitigation requested:	N/A acres	
4f. Non-riparian wetland mitigation requested:	N/A acres	
4g. Coastal (tidal) wetland mitigation requested:	N/A acres	
4h. Comments: N/A		
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. N/A		

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	N/A	N/A	3 (2 for Catawba)	N/A
Zone 2			1.5	
	6f. **Total buffer mitigation required:**			N/A

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).

N/A

6h. Comments: N/A

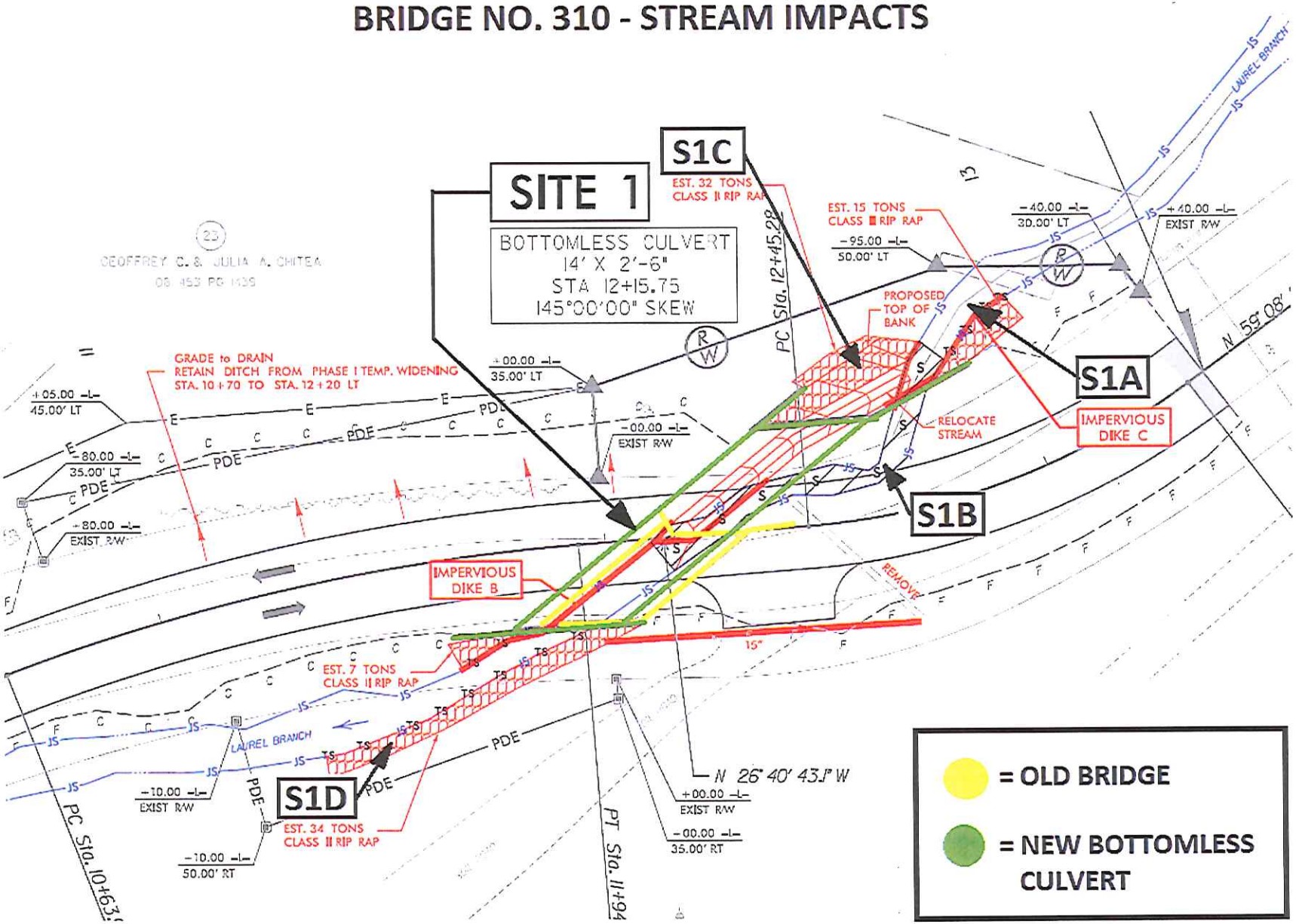
E. Stormwater Management and Diffuse Flow Plan (required by DWQ)	
1. Diffuse Flow Plan	
1a. Does the project include or is it adjacent to protected riparian buffers identified within one of the NC Riparian Buffer Protection Rules?	☐ Yes ☒ No
1b. If yes, then is a diffuse flow plan included? If no, explain why. Comments: N/A	☐ Yes ☐ No
2. Stormwater Management Plan	
2a. What is the overall percent imperviousness of this project?	N/A
2b. Does this project require a Stormwater Management Plan?	☒ Yes ☐ No
2c. If this project DOES NOT require a Stormwater Management Plan, explain why:	
2d. If this project DOES require a Stormwater Management Plan, then provide a brief, narrative description of the plan: Project is covered by NCDOT Individual NPDES Permit No. NCS000250.	
2e. Who will be responsible for the review of the Stormwater Management Plan?	☐ Certified Local Government ☐ DWQ Stormwater Program ☒ DWQ 401 Unit
3. Certified Local Government Stormwater Review	
3a. In which local government's jurisdiction is this project?	N/A
3b. Which of the following locally-implemented stormwater management programs apply (check all that apply):	☐ Phase II ☐ NSW ☐ USMP ☐ Water Supply Watershed ☐ Other:
3c. Has the approved Stormwater Management Plan with proof of approval been attached?	☐ Yes ☐ No
4. DWQ Stormwater Program Review	
4a. Which of the following state-implemented stormwater management programs apply (check all that apply):	☐ Coastal counties ☐ HQW ☐ ORW ☐ Session Law 2006-246 ☐ Other:
4b. Has the approved Stormwater Management Plan with proof of approval been attached?	☐ Yes ☐ No
5. DWQ 401 Unit Stormwater Review	
5a. Does the Stormwater Management Plan meet the appropriate requirements?	☒ Yes ☐ No
5b. Have all of the 401 Unit submittal requirements been met?	☐ Yes ☐ No

F. Supplementary Information		
1. Environmental Documentation (DWQ Requirement)		
1a. Does the project involve an expenditure of public (federal/**state**/local) funds or the use of public (federal/state) land?	☒ Yes	☐ No
1b. If you answered "yes" to the above, does the project require preparation of an environmental document pursuant to the requirements of the National or State (North Carolina) Environmental Policy Act (NEPA/SEPA)?	☐ Yes	☒ No
1c. If you answered "yes" to the above, has the document review been finalized by the State Clearing House? (If so, attach a copy of the NEPA or SEPA final approval letter.) Comments: N/A	☐ Yes	☐ No
2. Violations (DWQ Requirement)		
2a. Is the site in violation of DWQ Wetland Rules (15A NCAC 2H .0500), Isolated Wetland Rules (15A NCAC 2H .1300), DWQ Surface Water or Wetland Standards, or Riparian Buffer Rules (15A NCAC 2B .0200)?	☐ Yes	☒ No
2b. Is this an after-the-fact permit application?	☐ Yes	☒ No
2c. If you answered "yes" to one or both of the above questions, provide an explanation of the violation(s): N/A		
3. Cumulative Impacts (DWQ Requirement)		
3a. Will this project (based on past and reasonably anticipated future impacts) result in additional development, which could impact nearby downstream water quality?	☐ Yes	☒ No
3b. If you answered "yes" to the above, submit a qualitative or quantitative cumulative impact analysis in accordance with the most recent DWQ policy. If you answered "no," provide a short narrative description. This is a rural secondary road. The bridge is being upgraded to standard load limits and width to improve safety for the traveling public. The bridge (culvert) upgrade is not anticipated to have any significant impact on future development.		
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. N/A		
5. Endangered Species and Designated Critical Habitat (Corps Requirement)		
5a. Will this project occur in or near an area with federally protected species or habitat?	☒ Yes	☐ No
5b. Have you checked with the USFWS concerning Endangered Species Act impacts?	☒ Yes	☐ No
5c. If yes, indicate the USFWS Field Office you have contacted.	☐ Raleigh ☒ Asheville	
5d. What data sources did you use to determine whether your site would impact Endangered Species or Designated Critical Habitat? North Carolina Natural Heritage Database and site specific surveys conducted during the bridge scoping process.		

6. Essential Fish Habitat (Corps Requirement)		
6a. Will this project occur in or near an area designated as essential fish habitat?	☐ Yes	☒ No
6b. What data sources did you use to determine whether your site would impact Essential Fish Habitat? N/A—There are no marine or estuarine communities within the Blue Ridge Physiographic Province.		
7. Historic or Prehistoric Cultural Resources (Corps Requirement)		
7a. Will this project occur in or near an area that the state, federal or tribal governments have designated as having historic or cultural preservation status (e.g., National Historic Trust designation or properties significant in North Carolina history and archaeology)?	☐ Yes	☒ No
7b. What data sources did you use to determine whether your site would impact historic or archeological resources? The bridge project was reviewed by NCDOT's Human Environment Unit in 2011 and there will be "no effect" on historic architecture or archaeological resources. These findings have been approved by the State Historical Preservation Office (SHPO) through MOA with NCDOT (see attached forms).		
8. Flood Zone Designation (Corps Requirement)		
8a. Will this project occur in a FEMA-designated 100-year floodplain?	☐ Yes	☒ No
8b. If yes, explain how project meets FEMA requirements: FEMA requirements were taken into consideration by the NCDOT Hydraulics Unit during the design of the bridge (see attached Hydraulic Report in the plan sheets)		
8c. What source(s) did you use to make the floodplain determination? NC Floodplain Mapping Program		

Dave McHenry Division 14 Environmental Specialist Applicant/Agent's Printed Name	Applicant/Agent's Signature (Agent's signature is valid only if an authorization letter from the applicant is provided.)	3-29-16 Date

BRIDGE NO. 310 - STREAM IMPACTS



North Carolina Department of Transportation

Highway Stormwater Program

STORMWATER MANAGEMENT PLAN

FOR NCDOT PROJECTS

(Version 2.01; Released December 2014)

WBS Element: 17BP.14.R.128 DB1 TIP No.: County(ies): Haywood

General Project Information

WBS Element:	17BP.14.R.128 DB14A-430310	TIP Number:		Project Type: Bridge Replacement	Date: 5/1/2015
NCDOT Contact:	Michael Shumsky, PE	Contractor / Designer:	Ronald Ferguson / Louis Berger		
Address:	1020 Birch Ridge Drive Room #16 Raleigh, NC 27610		Address:	1001 Wade Ave. Suite 400 Raleigh, NC 27605	
Phone:	(919) 707-6627		Phone:	(919) 866.4400	
Email:	mshumsky@ncdot.gov		Email:	rferguson@louisberger.com	
City/Town:	Waynesville	County(ies):	Haywood		
River Basin(s):	French Broad	CAMA County?	No		
Wetlands within Project Limits?	No				

Project Description

Project Length (lin. miles or feet):	0.06	Surrounding Land Use:	Rural, Residential, Woods
	Proposed Project		Existing Site
Project Built-Upon Area (ac.)	0.1 ac.		0.1 ac.
Typical Cross Section Description:	Proposed Section is 2 - 9.5' lanes with 3' grassed shoulders		Existing section is approximately 18.5' feet wide BST 2-lane road with variable width grassed shoulders
Annual Avg Daily Traffic (veh/hr/day):	Design/Future: 70 Year: 2034		Existing: 70 Year: 2010
General Project Narrative: (Description of Minimization of Water Quality Impacts)	The purpose of this project is to replace Bridge No. 430310 located on SR 1348 (Laurel Branch Road) over Laurel Branch. The existing structure is a single span bridge 20'-6" timber floor on timber joists with timber caps, post and sills on concrete sills. The proposed replacement is a 14' x 2'-6" bottomless concrete culvert. The existing roadway consists approximately of a 18.5' paved roadway with grass shoulders. The roadway improvements consists of 2-9.5' lanes with 3' grassed shoulders. During construction, Laurel Branch Road will remain open to traffic as the project will be a stage construct. The existing drainage patterns will be maintained and runoff will be discharged as far from the stream as practicable throughout the construction process and final completion.		

Waterbody Information

Surface Water Body (1):	Laurel Branch		NCDWR Stream Index No.:	5-27	
NCDWR Surface Water Classification for Water Body		Primary Classification:	Class C		
		Supplemental Classification:	None		
Other Stream Classification:					
Impairments:					
Threatened/Endangered Species?	No	Comments:			
NRTR Stream ID:	N/A			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?	N/A
Deck Drains Discharge Over Water Body?	N/A	(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 2.01; Released December 2014)

WBS Element:	17BP.14.R.12	TIP No.:	County(ies):	Haywood	Page 2 of 2

Bridge to Culvert Avoidance and Minimization

Proposed Structure Summary

Sheet No. & Station	Sheet No.:	4	Station:	L 12+15.75	
Drainage Area (ac or sq mi):		1.5 sq mi			
Surface Water Body:		(1)Laurel Branch			
Culvert Type:		Bottomless concrete culvert			
Avoidance and Minimization Efforts: (Bridge to Culvert)		The existing stream (Laurel Branch) parallels the roadway for most of the project limits. The proposed alignment was shifted to minimize impacts to the existing channel due to fill slopes. Wingwalls were also elongated and placed parallel to the roadway to minimize impacts. Preliminary geotechnical investigations allowed for the use of a bottomless structure to minimize disturbance of the natural channel bed.			

Number of Culverts:	1		
Culvert Width/Diameter (ft):	14'		
Culvert Height (ft):	2'-6"		
Culvert Length (ft)	69.6'		

Stream Slope		Fish and/or Aquatic Life Passage	
Existing Average Stream Slope (%):	5.10 %	Existing Low Flow Channel Dimensions in the Stream:	Low flow channel is appoximately 6' wide and around 1' deep and 2' base. Channel dimensions vary due to rocky terrain.
Proposed Culvert Slope (%):	3.91 %		
Culvert Burial			
Proposed Culvert Burial Depth (ft):	N/A		
Existing Streambed Material:	Bedrock, cobble, sand, gravel	Proposed Low Flow Dimensions Through the Culvert:	Low flow channel is appoximately 6' wide and around 1' deep with a 2' base.
Proposed Sills/Baffles:	No sills or baffles will be utilized with the bottomless structure.	Existing Low Flow Velocities in the Stream (ft/s):	6.1
		Proposed Low Flow Velocities Through the Culvert (ft/s):	6.1
		Alternating Low Flow Sills/Baffles:	No sills or baffles will be utilized with the bottomless structure.

Culvert/Stream Alignment

Stream Patterns Upstream and Downstream of the Culvert that Could Affect Fish Passage and Bank Stability:	The proposed stream alignment resembles the existing alignment and should not hinder fish passage in comparison to existing conditions. Banks are stabilized with Class II Rip Rap both upstream and downstream of the culvert.	
Bed Forms Impacted by Culvert (riffles, pools, glides, etc.):	A small pool section will be impacted at the upstream end of the culvert due to a channel relocation. The majority of the stream will not be impacted by the bottomless culvert.	
Low Flow Floodplain Bench Required? (provide justification)	No	Bottomless structure.
Sharp Bends at Inlet/Outlet? (describe culvert alignment with stream)	No	With the installation of the relocated channel at the upstream end, the exsiting stream does not have any sharp bends within the project limits.
Stream Realignment Necessary? (provide justification)	Yes	Alignment constraints and the existing channel's proximity to the roadway created an unavoidable channel relocation at the upstream end of the culvert.
Bank Stabilization:	Class II rip rap is placed at the upstream and downstream ends of the culvert. Rip rap extends 50' from the upstream end and 60' from the downstream end.	

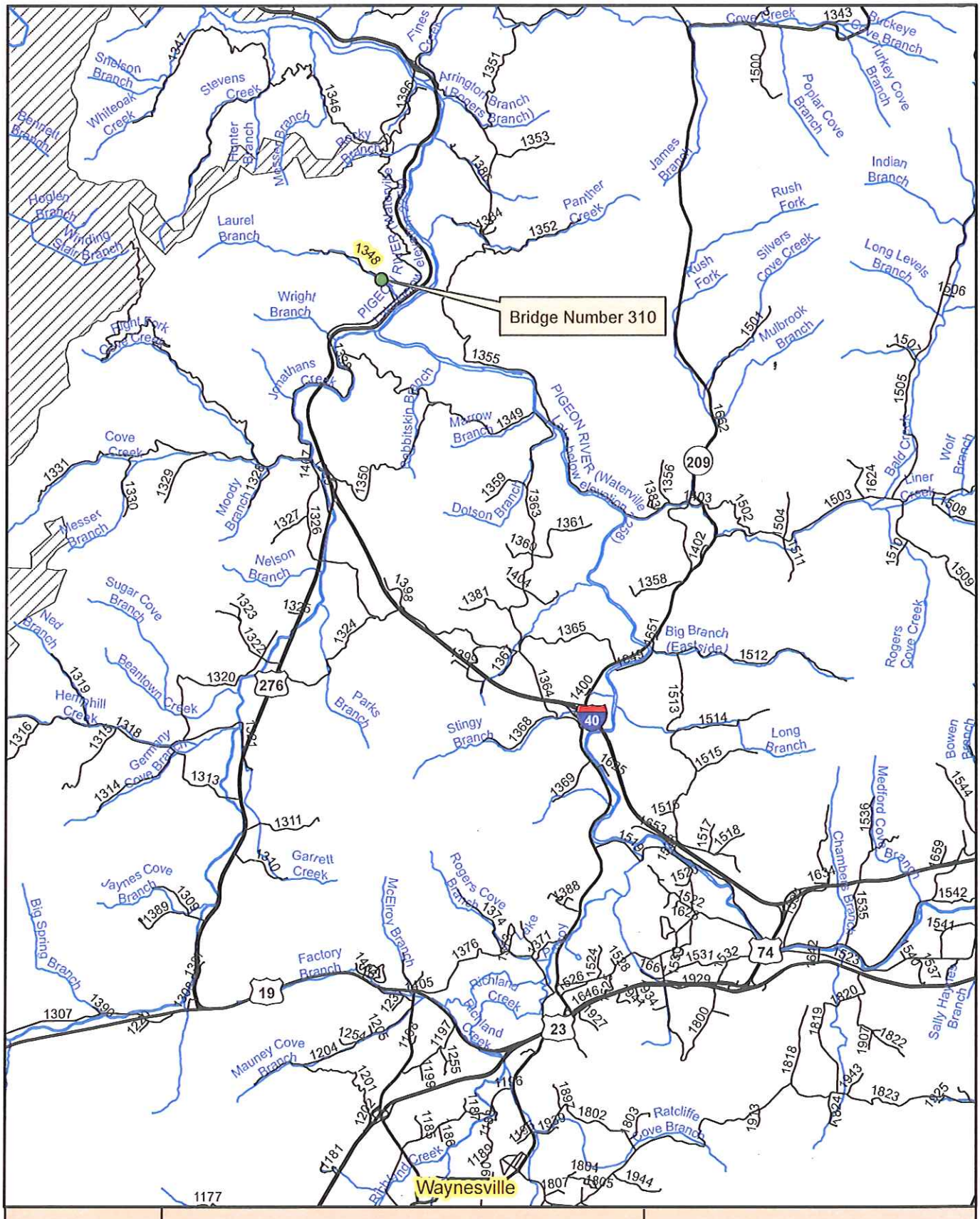
Outlet Velocities

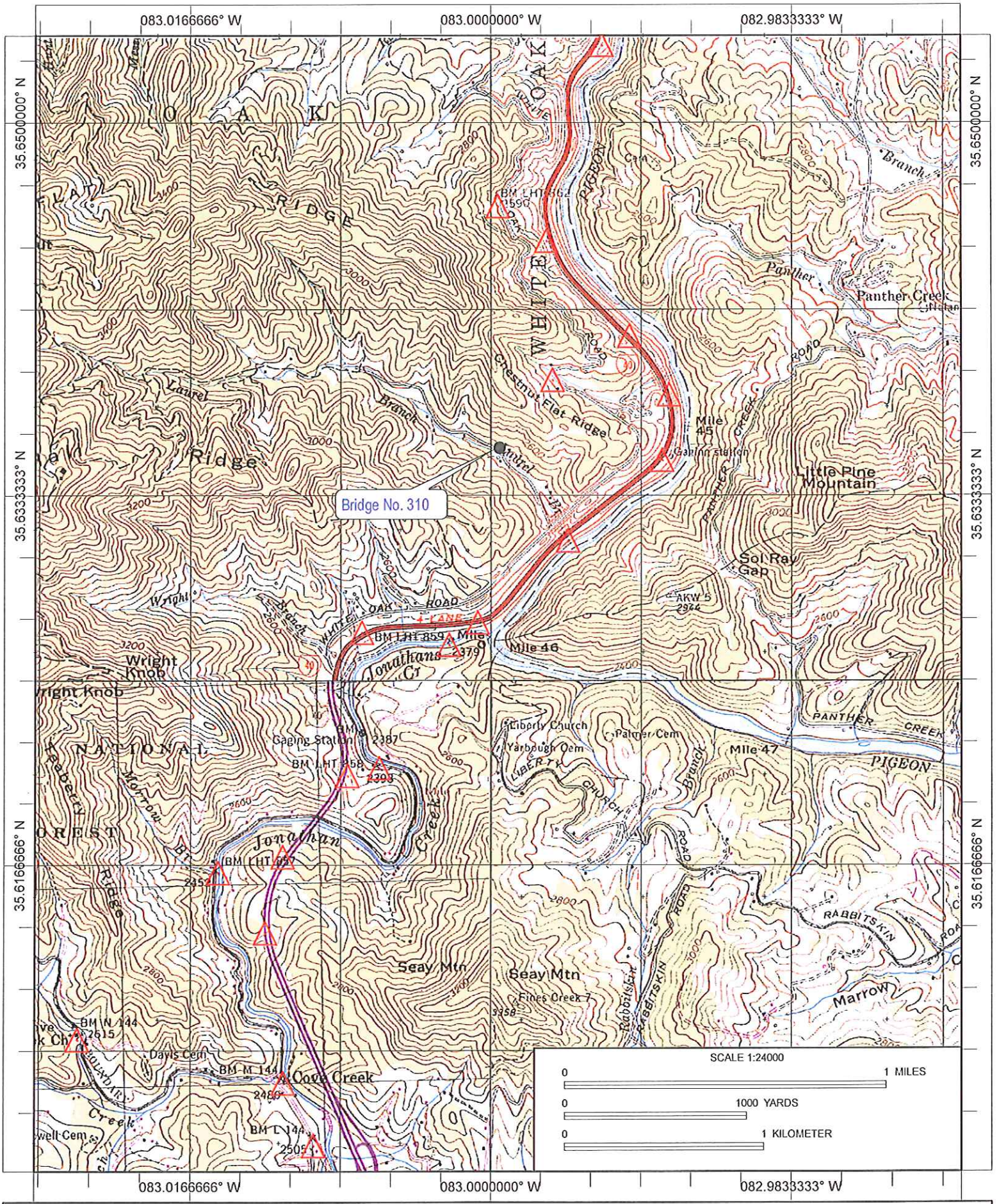
Natural Stream Channel 2-yr Velocity (ft/s):	8.4	Natural Stream Channel 10-yr Velocity (ft/s):	7.7
Proposed Culvert 2-yr Outlet Velocity (ft/s):	8.4	Proposed Culvert 10-yr Outlet Velocity (ft/s):	8.3

Roadway Geometric Considerations

Evaluate/Describe Roadway Geometric Constraints:

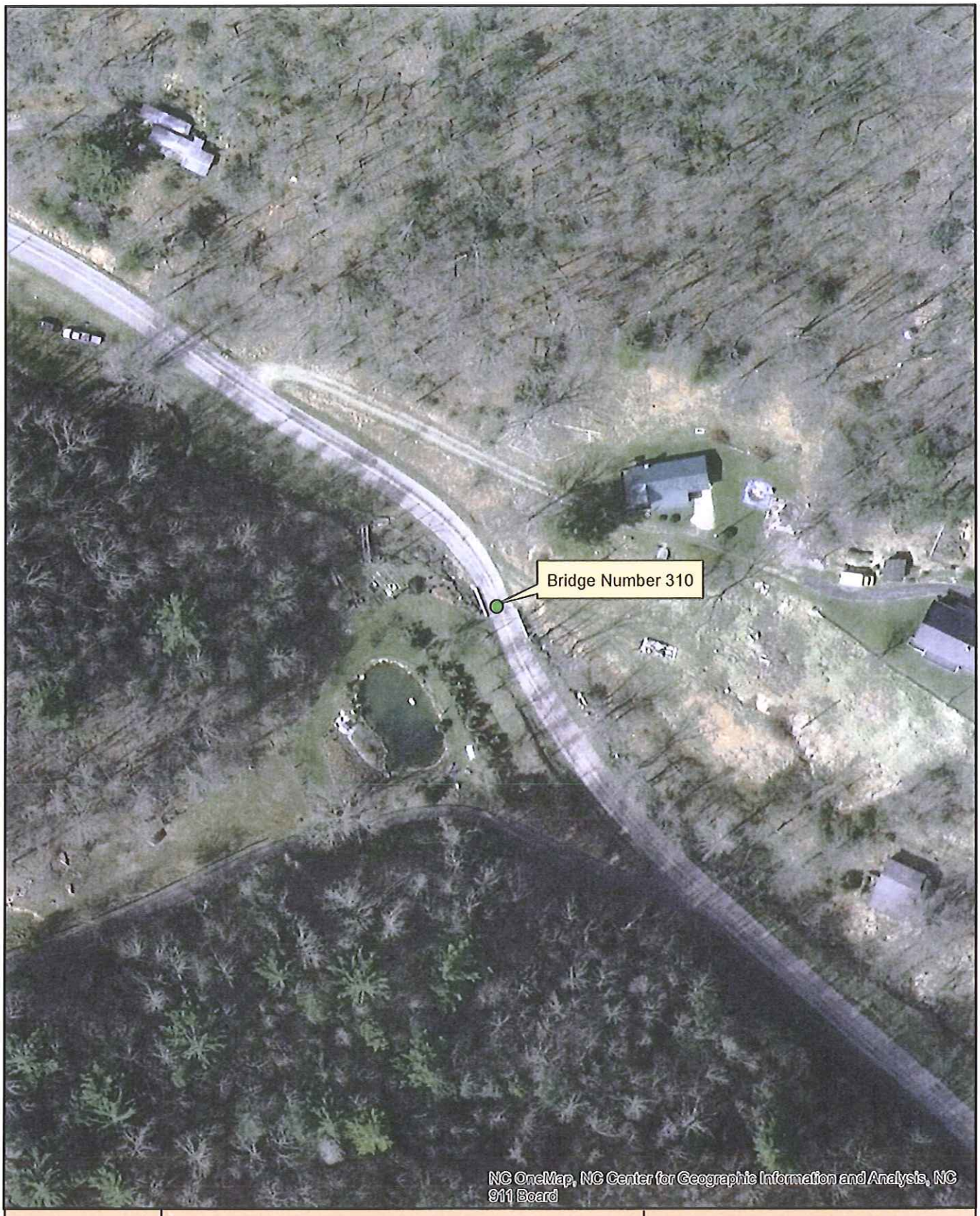
The roadway and culvert is a stage construct to the upstream side of the culvert to allow the existing roadway to remain open to traffic. This method yields a slightly longer culvert than it would having a closed road with an offsight detour. Natural stream alignment running parallel to the rodaway also poses constraints as any widening has the potential of filling in the existing channel, which is the reason for the channel relocation.


Bridge Number 310
Waynesville
Legend
Primary Roads
Secondary Roads
Streams/Water Bodies
Federal Lands
N
W
E
S
Bridge Number 310 over
Laurel Branch on SR 1348
Haywood County, NC
0 0.5 1 2
Miles



Name: FINES CREEK
Date: 8/4/2015
Scale: 1 inch equals 2000 feet

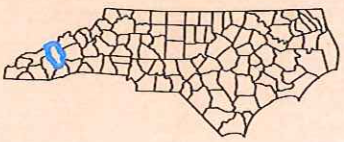
Location: 035.6284107° N 082.9996392° W NAD 27
Caption: Bridge No. 310 on SR 1348
Laurel Branch, Haywood Co.
Cove Creek 35083-F1-TF-024



N
W E
S

Bridge Number 310 over
Laurel Branch on SR 1348
Haywood County, NC

0 25 50 100
Feet



Haywood County Bridge #310 on
SR 1348 over Laurel Branch

March 5, 2013 and
June 1, 2015 Photographs

Looking southeast towards bridge.

Looking northwest towards bridge.

Haywood County Bridge #310 on
SR 1348 over Laurel Branch

March 5, 2013 and
June 1, 2015 Photographs

Looking downstream from bridge.

Looking upstream from bridge.

This is the location of stage 1 of the bottomless culvert construction and the stream channel change.

Haywood County Bridge #310 on
SR 1348 over Laurel Branch

March 5, 2013 and
June 1, 2015 Photographs

Looking downstream towards bridge.

ATTACHMENT A
PRELIMINARY JURISDICTIONAL DETERMINATION FORM

BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR PRELIMINARY JURISDICTIONAL DETERMINATION (JD): 3-29-2016

B. NAME AND ADDRESS OF PERSON REQUESTING PRELIMINARY JD:
NC Department of Transportation, Mark Davis, Division 14 Environmental Officer
253 Webster Road, Sylva, NC 28779

C. DISTRICT OFFICE, FILE NAME, AND NUMBER:

D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION:
Replace bridge 310 on SR 1348 (Laurel Branch Road) in Haywood County

(USE THE ATTACHED TABLE TO DOCUMENT MULTIPLE WATERBODIES AT DIFFERENT SITES)

State: NC County/parish/borough: Haywood City: Maggie Valley

Center coordinates of site (lat/long in degree decimal format):
Lat. 35.63524 °N; Long. -82.99932 °W.

Universal Transverse Mercator: 318968,3945333.1 Zone 17

Name of nearest waterbody: Laurel Branch

Identify (estimate) amount of waters in the review area:
Non-wetland waters:
200 linear feet: 8 width (ft) and/or _____ acres.

Cowardin Class: R3UB1

Stream Flow: perrenial

Wetlands: n/a acres.

Cowardin Class: n/a

Name of any water bodies on the site that have been identified as Section 10 waters:
Tidal: n/a
Non-Tidal: n/a

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

☑ Office (Desk) Determination. Date: 3-29-2016

☐ Field Determination. Date(s): _____

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: NCDOT

☐ 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: 1:24k Cove Creek Gap

☐ USDA Natural Resources Conservation Service Soil Survey. Citation: _____

☐ National wetlands inventory map(s). Cite name: _____

☐ State/Local wetland inventory map(s): _____

☐ FEMA/FIRM maps: _____

☐ 100-year Floodplain Elevation is: _____ (National Geodectic Vertical Datum of 1929)

☑ Photographs: ☐ Aerial (Name & Date): _____ or ☑ Other (Name & Date): BSR 3-5-2013 & 6-1-2015

☐ Previous determination(s). File no. and date of response letter: _____

☐ Other information (please specify): _____

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:

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.

3-29-16

Signature and date of
Regulatory Project Manager
(REQUIRED)

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

Site Number	Latitude	Longitude	Cowardin Class	Estimated amount of aquatic resource in review area	Class of aquatic resource
1	35.63524	-82.99932	R3UB1	200 linear feet	Non Section 10 – non-wetland

Project Tracking No. (Internal Use)

11-08-0108

NO SURVEY REQUIRED FORM

PROJECT INFORMATION

Project No:	Str.430310	*County:*	Haywood
WBS No:	17BP.14.R.81	*Document:*	PCE or Minimum Criteria Checklist
F.A. No:	N/A	*Funding:*	☒ State ☐ Federal

Federal (USACE) Permit Required? ☒ Yes ☐ No *Permit Type:* NWP 3 or NWP 14

Project Description: Replace Bridge NO. 310 across Laurel Branch on SR 1348.

SUMMARY OF CULTURAL RESOURCES REVIEW

Brief description of review activities, results of review, and conclusions:
Review of HPO quad maps, HPO GIS information, historic designations roster, and indexes was undertaken on September 6, 2011. Based on this review, there are no existing NR, SL, LD, DE, or SS properties in the Area of Potential Effects. Current Haywood County GIS/Tax Information indicate there is only one structure over fifty years of age within the APE, a house built in 1961 north of the bridge (PIN 8711-20-1599). Bing Maps "Birdseye View" confirms that the house is not historic and not NR eligible. There are no historic structures present and no survey is required. Bridge No. 310 not NR Eligible.

Brief Explanation of why the available information provides a reliable basis for reasonably predicting that there are no unidentified historic properties in the APE:
HPO quad maps and GIS information recording NR, SL, LD, DE, and SS properties for the Haywood County survey, Haywood County GIS and tax information, and Google Maps, and Bing Maps "Birds Eye" view are considered valid for the purposes of determining the likelihood of historic resources being present. There are no historic resources present and no survey is required.

SUPPORT DOCUMENTATION

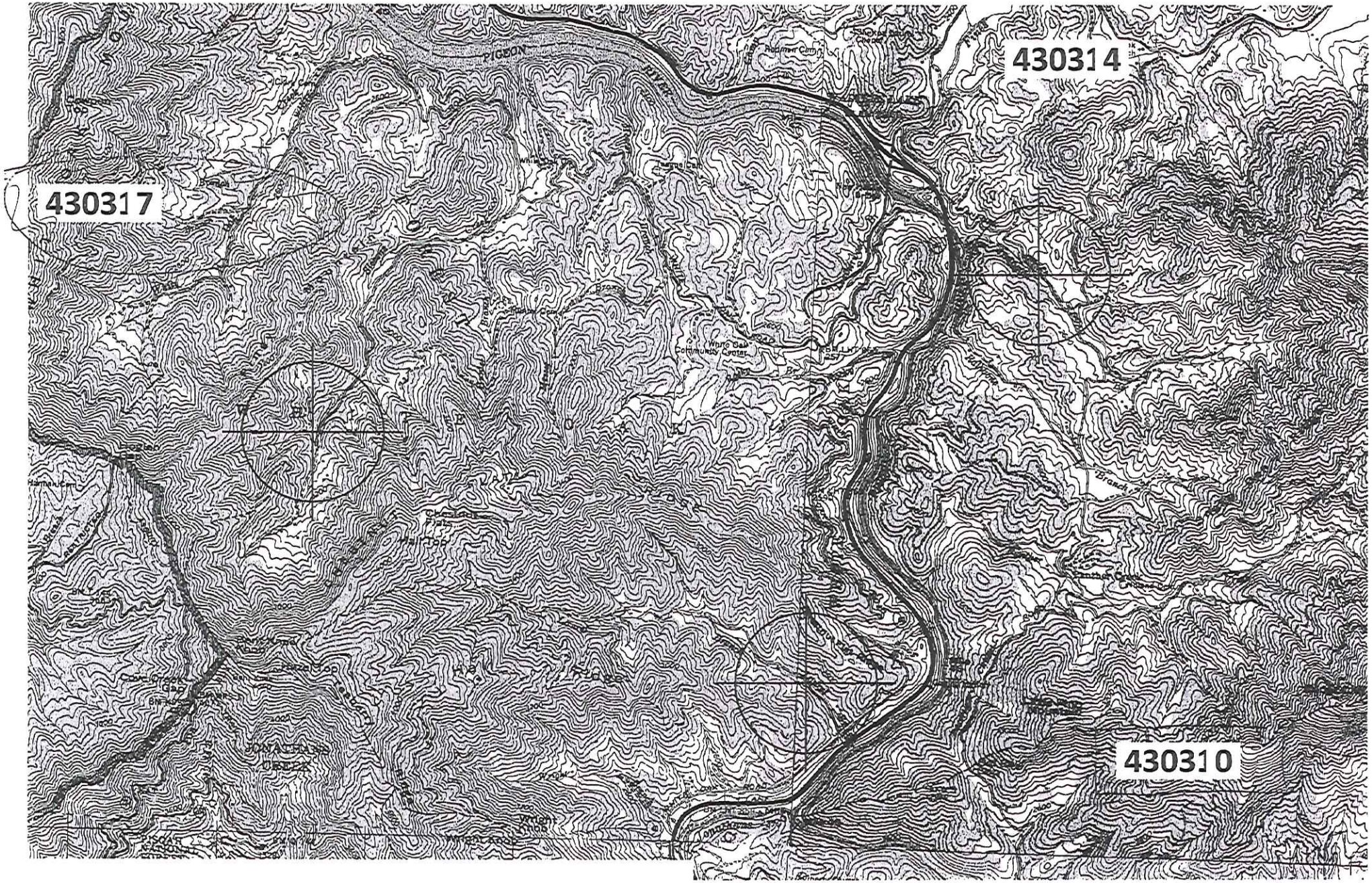
See attached: Maps, tax card.

FINDING BY NCDOT CULTURAL RESOURCES PROFESSIONAL NO SURVEY REQUIRED

ARCHAEOLOGY HISTORIC ARCHITECTURE (CIRCLE ONE)

Katherine L. Hustad — September 6, 2011

NCDOT Cultural Resources Specialist — Date


430314
430317
430310
PIGEON
RIVER
JONATHANS
CREEK

Printed: 05 SEP 2011 - by 0 — Haywood County NC Property Record Card — Page: 1
CARD 1 OF 1. — Tax Year : 2011

Parcel : 8711-20-1599 Description: 65 RIDDLE BRANCH DR
Tax Districts: F11 JONATHAN CREEK FIRE DIST

OWNER INFORMATION

ACCT: 39277 RIDDLE, KATHLEEN A
RIDDLE, KATHRYN LOU
65 RIDDLE BRANCH RD
WAYNESVILLE, NC 28785

PROPERTY FACTORS

Topography: R ROLLING
Land Mkt Adj
Streets/Roads: P PAVED

SALES INFORMATION

Date	Sales Price	Vld	Bk/Pg
07/01/83	0		342/289

MISCELLANEOUS INFORMATION

Township : 17 WHITE OAK
Address : 65 RIDDLE BRANCH DR
Land Use :
Nbrhood : 17R001 WHITE OAK RURAL
Map : 8711
Class : R1 RESIDENTIAL 1

ENTRANCE INFORMATION

Date	Type Source	Appraiser
11/23/10	8	MTG

VALUE SUMMARY

	Assessed	Current
Land :	72,900	72,900
Bldg :	63,900	63,900
Tot Appr :	136,800	136,800
Defer :	0	0
Net Taxable :	136,800	136,800

Remarks:
No Remarks on file

--- LAND DATA ---

#	MTH	TYPE		SIZE	UNIT PRICE	GRADE	%ADJ	VALUES APPR	DEFER	TAX
1	A	HP	HOMESITE PRIMARY	1.00	27,500			27,500	0	27,500
2	A	OP	OPENLAND	1.11	6,875		T-50	3,800	0	3,800
3	A	WD	WOODLAND	12.10	6,875		T-50	41,600	0	41,600

Total Acres : 14.21 — Land Totals: 72,900 | 0 | 72,900

--- OUTBUILDINGS ---

BLDG#	TYPE	MTH	DESCRIPTION	REMARKS	%COMP	STORIES	AREA	GRD	YEAR BUILT	EFF YR BUILT	COND	PHYS	FUNC	ECON	TAX VALUE

CARD 1 OUTBUILDING VALUE 0

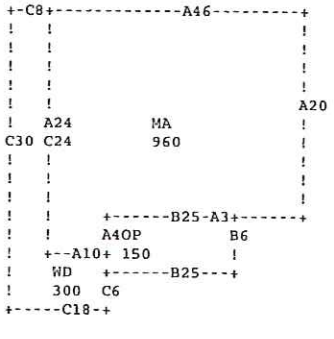
End of Page 1

Printed: 05 SEP 2011 - by 0 — Haywood County NC Property Record Card — Page: 2
CARD 1 OF 1
Parcel : 8711-20-1599 65 RIDDLE BRANCH DR
Owner : 39277 RIDDLE, KATHLEEN A

BUILDING DESCRIPTION

VAL METHOD : R
USE CODE : D DWELLING
OCCUPANCY : SF SINGLE FAMILY
STYLE : CONVENTIONAL
NBR STORIES : 1.00
WALL HEIGHT :
FOUNDATION :
EXTERIOR WALL : BRICK-VENEER
YR BUILT / EFF : 1961
CONDITION : A AVERAGE
GRADE : C-
DESIGN FACTOR :
BASEMENT AREA : NO BASEMENT
ATTIC AREA : NO ATTIC
FIN UPPER STORY : NO
UNFIN UPPER STORY : NO
ROOMS / BDRMS : / 2
FULL / HALF BATHS : 1 / 0 ADDL FIX: 2
FIREPLACE TYPE/CNT:
FIREPLACE OPENINGS: 0 CHIMNEY(S): 1
AIR COND PCT :
SPRINKLER PCT :
HEATING TYPE : F FORCED HOT AIR
MARKET FACTOR :
% COMPLETE : 100
DESCRIPTION : 1.0/S
REMARKS :

SCALE IS 1:120



Printed: 05 SEP 2011 - by 0 — Haywood County NC Property Record Card — Page: 1
CARD 1 OF 1 — Tax Year : 2011

Parcel : 8710-19-5781 — Description: 171 SANTOLINA LN — Tax Districts: F11 JONATHAN CREEK FIRE DIST

OWNER INFORMATION

ACCT: 96627
CHITEA, GEOFFREY CHASE
CHITEA, JULIA A
171 SANTOLINA LN
WAYNESVILLE, NC 28786

PROPERTY FACTORS

Topography: H HIGH
Land Mkt Adj
Streets/Roads: P PAVED

SALES INFORMATION

Date	Sales Price	Vld	Bk/Pg
06/21/96	30,000	Y	453/1439

MISCELLANEOUS INFORMATION

Township : 17 WHITE OAK
Address : 171 SANTOLINA LN
Land Use :
Nbrhood : 17R001 WHITE OAK RURAL
Map : 8710
Class : R1 RESIDENTIAL 1

ENTRANCE INFORMATION

Date	Type Source	Appraiser
11/23/10	8	MTG

VALUE SUMMARY

	Assessed	Current
Land :	52,400	52,400
Bldg :	325,500	325,500
Tot Appr :	377,900	377,900
Defer :	0	0
Net Taxable :	377,900	377,900

Remarks:
No Remarks on file

--- LAND DATA ---

#	MTH	TYPE		SIZE	UNIT PRICE	GRADE	%ADJ	VALUES APPR	DEFER	TAX
1	A	HP	HOMESITE PRIMARY	1.00	27,500			27,500	0	27,500
2	A	WD	WOODLAND	9.07	6,875		T-60	24,900	0	24,900

Total Acres : 10.07 — Land Totals: 52,400 | 0 | 52,400

--- OUTBUILDINGS ---

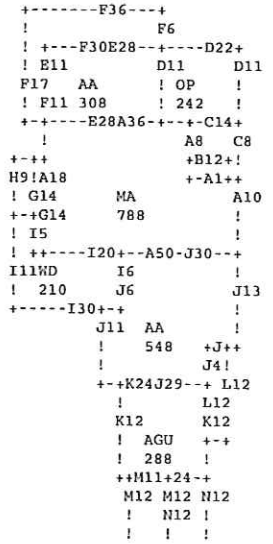
BLDG#	TYPE	MTH	DESCRIPTION	REMARKS	%COMP	STORIES	AREA	GRD	YEAR BUILT	EFF YR BUILT	COND	PHYS	FUNC	ECON	TAX VALUE
2	STG	P	STORAGE		100	1.0		1							800

CARD 1 OUTBUILDING VALUE 800

End of Page 1

BUILDING DESCRIPTION

VAL METHOD	: R
USE CODE	: D DWELLING
OCCUPANCY	: SF SINGLE FAMILY
STYLE	: CONTEMPORARY
NBR STORIES	: 2.00
WALL HEIGHT	:
FOUNDATION	: CM CONT.WALL;CONC.BLOCK
EXTERIOR WALL	: LAP SIDING (WOOD)/ HARDY PLANK
YR BUILT / EFF	: 1997
CONDITION	: A AVERAGE
GRADE	: B
DESIGN FACTOR	:
BASEMENT AREA	: 850 (100 PCT FIN)
ATTIC AREA	: NO ATTIC
FIN UPPER STORY	: NO
UNFIN UPPER STORY	: NO
ROOMS / BDRMS	: / 3
FULL / HALF BATHS	: 2 / 1 ADDL FIX: 2
FIREPLACE TYPE/CNT	: FIREPLACE/TWO STORY/2
FIREPLACE OPENINGS	: 1 CHIMNEY(S): 2
AIR COND PCT	:
SPRINKLER PCT	:
HEATING TYPE	: P HEAT PUMP
MARKET FACTOR	:
% COMPLETE	: 100
DESCRIPTION	: 2.0/S/B
REMARKS	: SQUARED ADDITION



Project Tracking No. (Internal Use)

11-08-0108

NO SURVEY REQUIRED FORM

PROJECT INFORMATION

Project No:	**STR. #430310**	*County:*	Haywood
WBS No:	17BP.14.R.81	*Document:*	Minimum Criteria Sheet
F.A. No:	n/a	*Funding:*	☒ State ☐ Federal

Federal (USACE) Permit Required? ☒ Yes ☐ No *Permit Type:* Nationwide

Project Description: Low impact bridge replacement of Bridge No. 310 over Laurel Branch on SR1348 (Laurel Branch Rd) in Haywood County, North Carolina. The structure will be replaced in-place utilizing an off-site detour during construction activities. Minor ditch-line impacts are scheduled to occur. The archaeological APE for the project measures 150ft in width (75ft laterally from each side of the SR1348 center-line) and 600ft in length (300ft from each bridge end-point). This project constitutes a state-funded construction effort.

SUMMARY OF CULTURAL RESOURCES REVIEW

Brief description of review activities, results of review, and conclusions:
A map review and site file search was conducted at the Office of State Archaeology (OSA) on Tuesday, September 6, 2011. This work disclosed the location of no previously recorded archaeological sites situated within the project's APE, directly adjacent to the APE, or within a roughly 10 mile radius of the project area. The majority of archaeological sites mapped on the Fines Creek topographic map maintained at the OSA were located within the Harmon's Den Wildlife Management Area and recorded by the USFS in association with the survey of timber/logging stands. Additionally, no existing National Register of Historic Places (NRHP), State Study Listed (SL), Locally Designated (LD), Determined Eligible (DE), or Surveyed Site (SS) properties are positioned within or proximal to the defined archaeological APE. Topographic maps, historic maps (NC Maps website), USDA soil survey maps (WoC, BsE), archaeological/historical reference materials, and aerial photographs (Google, NCDOT) were utilized/inspected to gauge environmental factors that may have contributed to historic or prehistoric settlement within the project limits, and to assess the level of residential, slope, hydrological, and other erosive-type disturbances that may have formerly impacted any potential resources contained within the project construction footprint.
Brief Explanation of why the available information provides a reliable basis for reasonably predicting that there are no unidentified historic properties in the APE:
USDA soil survey maps of Haywood County illustrate that the majority of the project area is characterized by (WoC) Whiteoak cobbly loam-8% to 15% slopes-stony. This soil type is described as a strongly sloping, very deep, well-drained soil in coves, toe slopes, and on benches of intermountain hills with stones and boulders scattered across the surfaces of these areas. The WoC type is bordered to the east and west by (BsE) Brasstown-Junaluska complex-30% to 50% slopes. This data, along with topography of the project area, enforces low archaeological site probability as most historic and prehistoric settlement is typically confined to land surfaces and slopes of less than 6%. Overall, the sloping and bouldery land surfaces within the incised dale that includes Laurel Branch and the project area does not fit local or regional settlement/subsistence systems as the location of significant occupations of native or historic peoples

A review of local, county, and regional historic maps did not reveal any structures, features, or any other above-ground evidence of past historic occupation of the immediate APE. Due to the extremely restricted nature of the project area, the diminutive character of the proposed construction impacts, and the sloping and bouldery land surfaces, the APE (as defined above) is unlikely to contain any significant NRHP eligible archaeological or cultrual resources. No further archaeological work is recommended for this state-funded bridge replacement project (310/Haywood) as proposed.

SUPPORT DOCUMENTATION

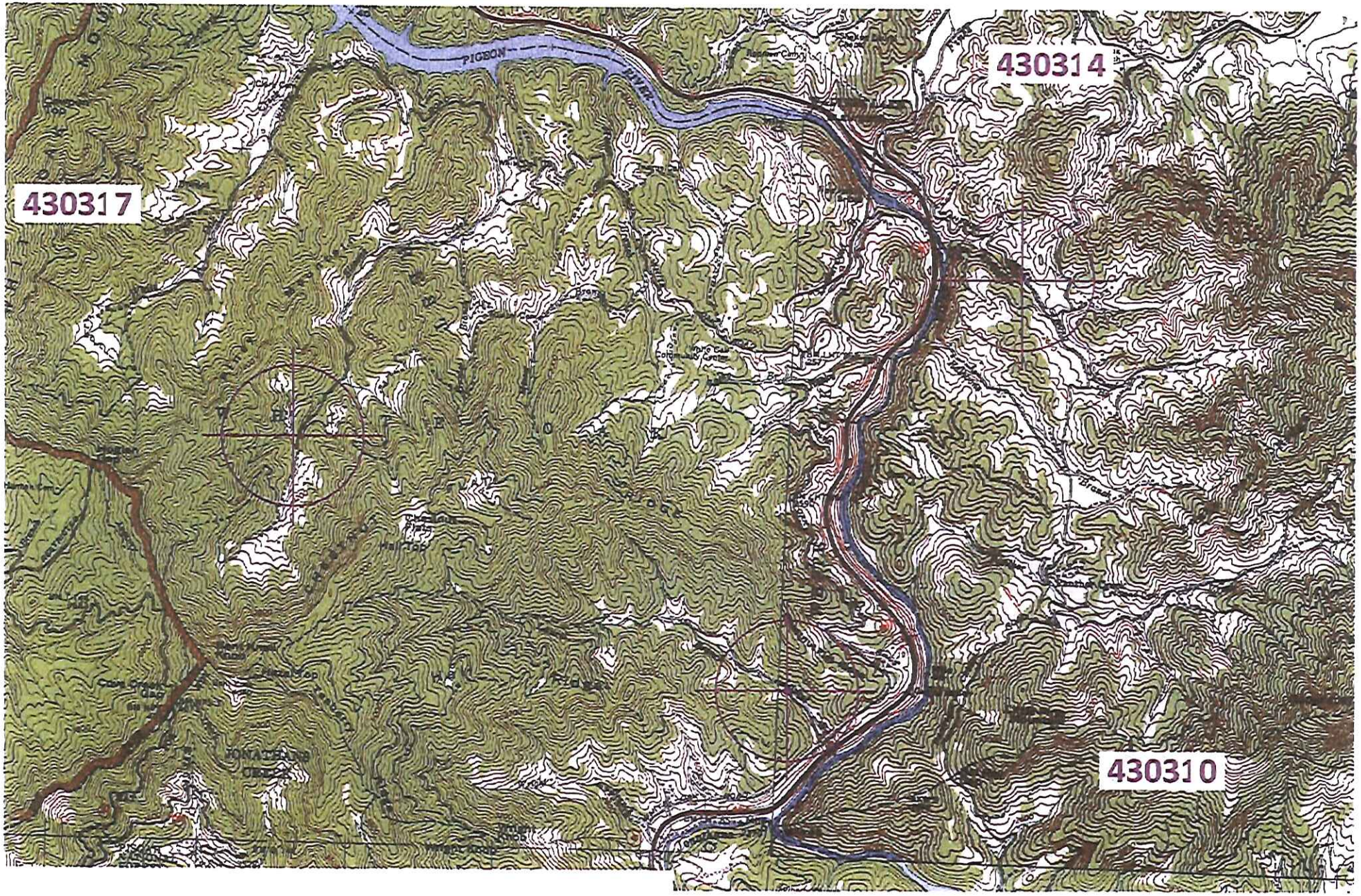
See attached: ☒ Map(s) ☒ Previous Survey Info ☒ Photos ☐ Correspondence
☐ Photocopy of County Survey Notes

FINDING BY NCDOT CULTURAL RESOURCES PROFESSIONAL

NO SURVEY REQUIRED

Scott Eric Alvarez 9/21/2011

NCDOT Cultural Resources Specialist Date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PIGEON
RIVER

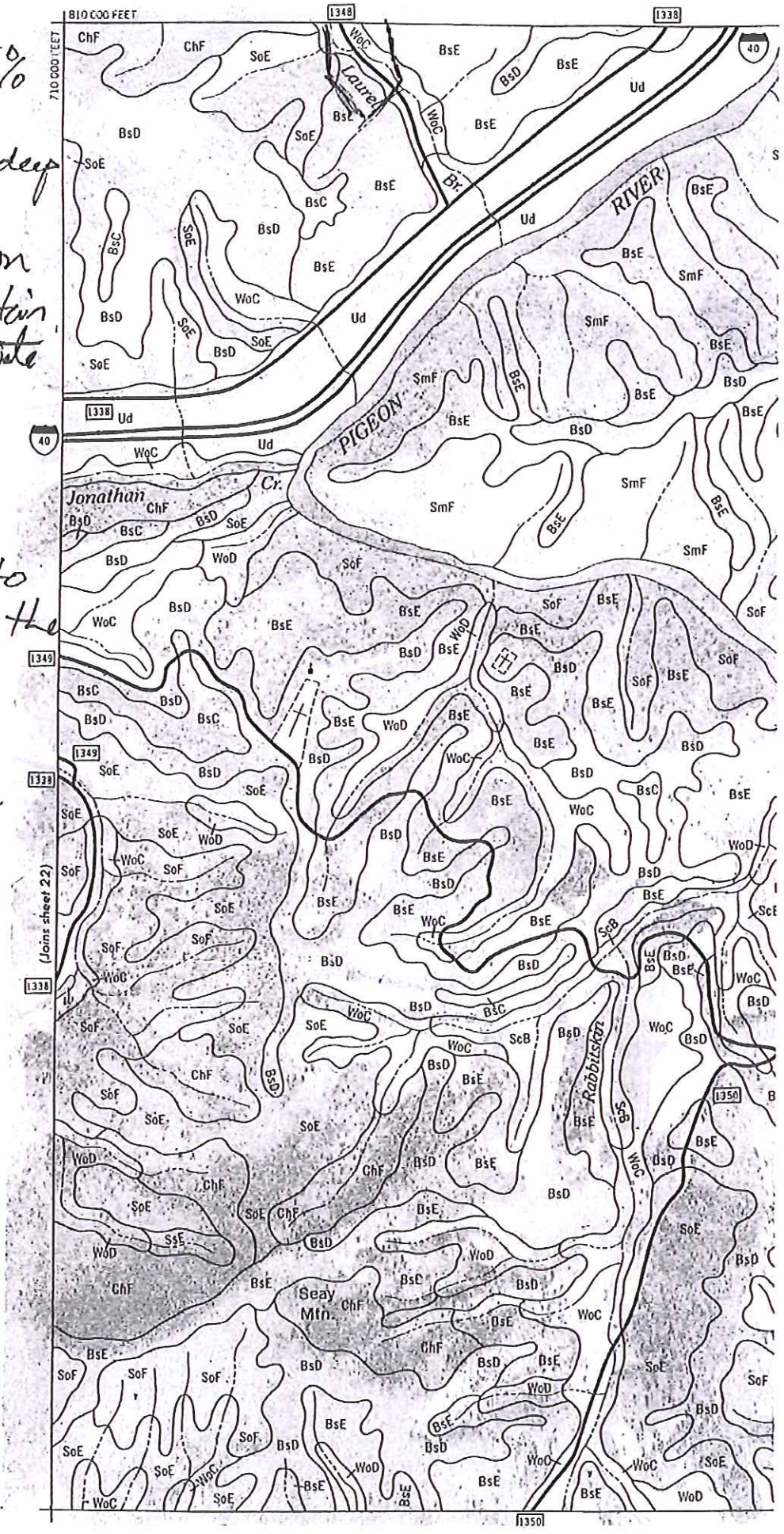
WoC - Whiteoak cobbly loam; 8 to 15% slopes; stony.

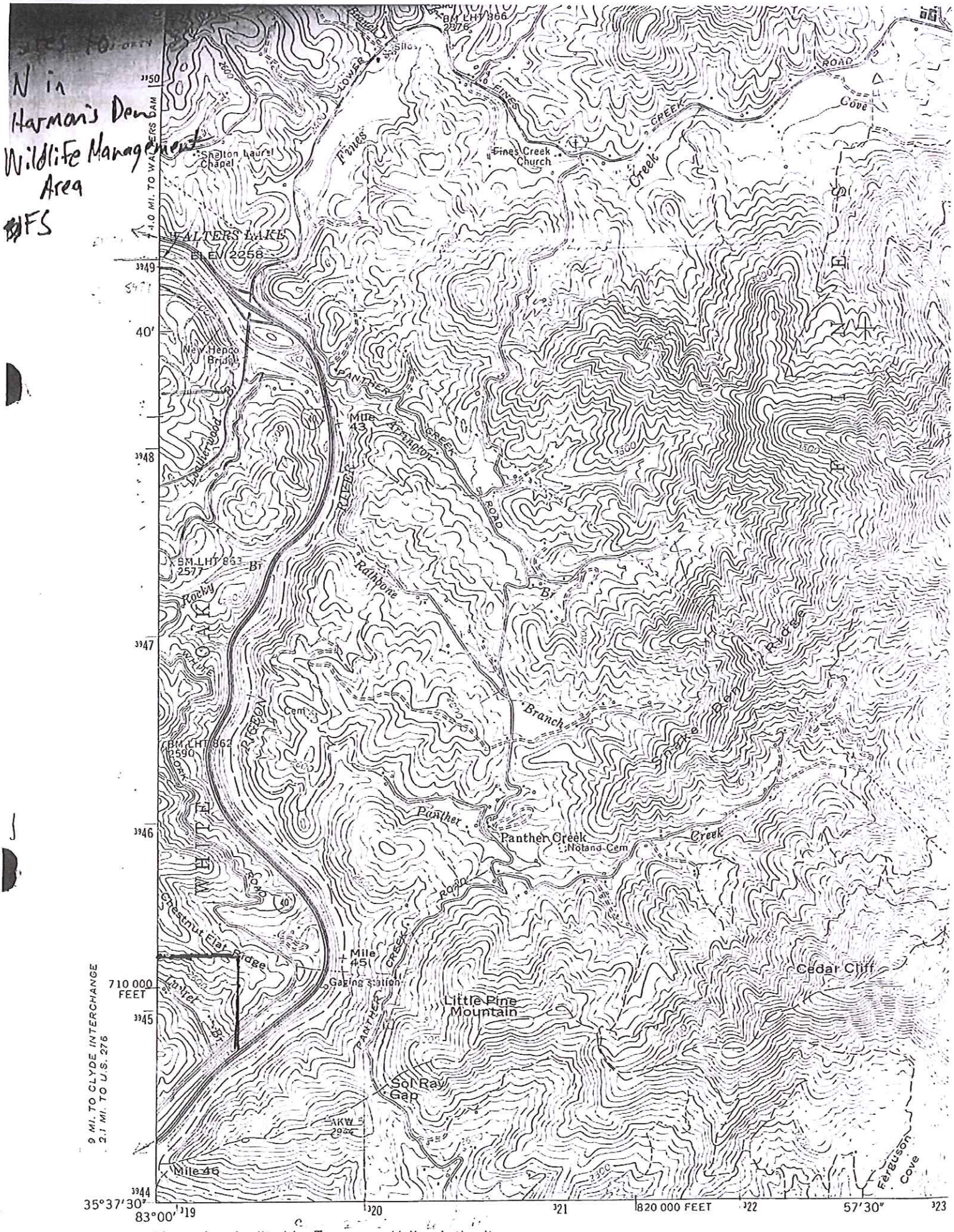
Strongly sloping, very deep well-drained soil in coves, toe slopes, & on benches of intermountain hills & low & intermediate mountains.

Stones & boulders are scattered on the surface.

Moderately suited to cropland w/ erosion the major limitation.

BsE - Brasstown - Junaluska complex 30-50% slopes





Mapped and edited by Tennessee Valley Authority