

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
FIELD SCOPING MEETING WORKSHEET
Design Build Process

WBS No.: **17BP.11.R.118**

Field Scoping Meeting Date: **June 15, 2016**

Division: **11**

Location: **On-site**

Route (US/NC/SR): **SR1533**

County: **WATAUGA**

Project Description: **Bridge No. 940136 over Middle Fork South Fork New River on SR1533 (Aho Road)**

Tier: **Sub-Regional**

Municipality: **No**

Attendees

	Name	Phone No.	E-mail
Division Bridge Manager	Jami Guynn	336-903-9220	jcguyenn@ncdot.gov
Division Environmental Off.	Heath Slaughter	336-903-9202	hslaughter@ncdot.gov
Division Bridge Program Tech	Mark Johnson	336-903-9208	mgjohnson4@ncdot.gov
Hydraulics Engineer	Rusty Lassiter	919-707-6732	rlassiter@ncdot.gov
Hydraulics Engineer	Marc Shown	919-707-6751	mshown@ncdot.gov
PPU	Christy Huff	919-707-6606	chuff@ncdot.gov
PPU	Eileen Fuchs	919-707-6613	eafuchs@ncdot.gov
Region III Locating Engr.	Pat Tuttle	336-969-9550	ptuttle@ncdot.gov
Division Locating Engr.	Larry Absher, Jr.	336-903-9501	lrabsher@ncdot.gov
Division 11 L&S	Landon Wagoner	336-903-9501	rlwagoner@ncdot.gov
NCWRC	Marla Chambers	704-984-1070	Marla.chambers@ncwildlife.org

Existing Features

Feature Bridged: **940136 over Middle Fork South Fork New River on SR1533 (Aho Road)**

Ex. Bridge Clear Deck Width: **19.583 (Ft.)** Roadway width: **19.583 (Ft.)**

(Bridge / Culvert) Length: **46 (Ft.)** Deck Width (Out To Out): **20(Ft.)**

Water Depth: **2(Ft.)** Height Bed-To-Crown: **12(Ft.)**

Year Built: **1951** Posted: SV **14** TTST: **18**

Superstructure: **Tim. Bloor on I-beams** Abutment: **Tim. Caps/tim. Post & sills** Pier Type:

Temp. Shored:

Historic High Water (Elev. To The Existing Structure): **(Ft)**

PRI: DP: **SR: 35.35** School Bussing crossings per day:

Posted Speed Limit Vicinity: **55 (stat)** (mph)

Detour Off-Site ☐ Stage Construction ☒ New Alignment ☐ On-site ☐

If Off-Site, Description Of Detour Route: **N/A**

Approximate Length Of Detour? **N/A**

Improvements Needed To Road(s) On Detour? **N/A**

Div. Traffic Eng. Recommend Off-site detour signing? **N/A**

Improvements Needed To Bridges On Detour? **N/A**

Are future plans for upgrading this roadway either at or in the vicinity of this project?

Are Bridges On Detour Currently Programmed? **N/A**

Are There EMS Or Business Access Issues? **N/A**

Are There Any Railroad Crossings On Detour? **N/A**

Should Work Zone Pedestrian Access Be Maintained During Construction? **No**

Overhead Utility Lines **In Conflict**

Power Transmission Lines In Conflict

Telephone In Conflict

Cable Lines In Conflict

Fiber Optic In Conflict

Water In Conflict

Sewer In Conflict

Natural Gas In Conflict

Other In Conflict

Based On The Past History Near This Project Site, What Is The Estimated Time Required To Complete Utility Adjustments **1 Months**

Is There Any Future Utility Construction Anticipated In The Project Area **No**

Is A FEMA Buy-Out Property Being Impacted **No**

Environmental

Wetlands At Site **No**

Comments: **No near hibernaculum; therefore, NLEB is not an issue**

Endangered Species In County: **Bog Turtle, Carolina northern flying squirrel, Northern long-eared bat, Virginia big-eared bat, Spruce-fir moss spider, BlueRidge goldenrod, Heller's blazing star, Roan mountain bluet, Spreading avens**

T&E species effect: **No**

Trout County : **Yes**

TVA County: **No**

CAMA County; **No**

Primary Nursery Area: **No**

Moratoria: **Yes**

Which species: **Brown/Brook/Rainbow** Duration : **Oct 15 – Apr 15**

Permits: **NWP3**

Water Quality Classification: **WS IV; Tr+**

303d: **No**

Coast Guard Permit? **No**

Drainage Basin: **New**

Riparian Buffer Rules: **No**

Is The Project Site In Or Near Any Of The Following:

National Forest; **No**

Wildlife Refuge ; **No**

State, County, Or Local Park ; **No**

Wild And Scenic River ; **No**

Airport; **No**

Recreation Of Power Generation **No**

Water Supply Reservoir; **No**

Nutrient Sensitive Waters; **No**

Public Use Boat Ramp; **No**

Cemeteries ; **No**

Known Or Potential Historic Properties In The Area:

Architecture No Eligible Properties

Archaeology No survey required

Is The Bridge Structure Itself, Or Any Part Thereof, Considered Historic: **No**

Impacts to a Church, Community Center, Or Other Public Facility? **Yes, Faithbridge UMC has the church on one side and overflow parking on the other side of the bridge. No working on Sundays**

Is this a Statewide Bicycle Route or a Local Non-Marked Bicycle Route: **No bike; accommodations recommended for the Middle Fork Greenway/multiuse path. Watauga County Gov has advised that an at-grade crossing is adequate at this location. Accommodations will not be provided under this project.**

Comments: **Blue Ridge Conservation Easement delineators were noted on site. In coordination with the Blue Ridge Conservancy, they advised that the conservation easement lies further south and did not affect this bridge.**

Geotechnical

Are There Any Historical And/Or Vibration Sensitive Structures Near By Comments:

Are There Any Known Landfills And / Or Geo-environmental Hazard Sites At Or Within Close Proximity To The Project Site ----- Comments:

Are Any Impacts Anticipated To Natural Springs Or Artesian Wells: Comments:

Possible Foundation Type: **@ End Bents**

@ Interior

Hydraulics

FEMA Approval? **Yes, detailed study (MOA)**

State Stormwater Permit? **No**

Is There Unusual Scour Potential? **No**

Is Protection Needed? **No, Vertical Abutments**

Are Banks Stable? **Yes**

Is Protection Needed?

Appreciable Amount Of Large Debris? **No**

Placement Of Bents In The Water Be Allowed: **No** Where:

Superstructure Type: **Bridge** If Bridge: **21" CS** If girder; why?

Length Of Structure: **60'** Min. Number Of Spans: **1** Span Arrangement:

Waive offset: **Yes** Cap: **N/A** Skewed: **skew with creek**

1at 60' with vertical abutments; Oregon rail; may raise low steel less than 1.5'

Items To Be Discussed / Resolved At FSM By Attendees

Off-Site Detour ☐ Stage: ☒ New Alignment: ☐ On-site detour ☐

Clear roadway width (CRW): 13'

Temp. Signals: Yes

Alignment: West; upstream

Des. Speed 25 mph

Environmental Document Prepared by DBE: Low Impact Data Spreadsheet ☒ Minimum Criteria Checklist ☐

ADT: 2000 / **SIR** NHS: Tier: **Sub-Regional** Func. Class: **Local, Rural**

Bridge Min. Clear Deck Width Recommended by Div.: **33' OTO – Oregon Rail**

Roadway lane width **_11_'** with **_4_'** shoulders including **_2'_** paved shoulders

Extension of Paved shoulders: end of **construction limits** and **tapered 8:1**.

Pave to face of guardrail and taper 8:1 to travel lane/paved shoulder? **Yes**

Min. Pavement Surface Course: **2-1/2"** inches: Existing Roadway: **19'**

Pavement Marking: **Paint** Pavement markers: **None**

Will Railroad Involvement Be Required: **No** Method of Clearing: **III**

Truck Percentage: : **6 % per BIR;** Reasonable Safe Speed per SIR: **35 mph**

Liquidated damages: will be imposed after **150** days of closure/construction. Amt: \$ **500** per day

CEI by? **NCDOT** R/W by? **DBT** R/W monuments? **DBT to provide & install Pin/Cap**

Salvageable materials: **Steel I-beams, bearing plates, diaphragms, steel guardrail, posts, post blocks and timber caps**

Contact Person/number: **David Scott (828) 268-6062**

Deliver to: **Boone Bridge Maintenance Facility at 1989 NC Hwy 194 North, Boone NC 28607**

Removal of previous structure remnant abutments/piers: **No**

Sequencing priority in construction? **No**

Comments: – **Cut the existing end bents down to the concrete footers & leave in place for stability on both sides.**

