

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

TIP No.: **B-5830** WBS No.: **17BP.11.R.139** Field Scoping Meeting Date: **3/29/16**

Division: **11** Location: **On-site**

Route (US/NC/SR): **SR 1181** County: **ASHE**

Project Description: **Bridge No. 177 over Beaver Creek on SR 1181 (Hartsog Ford Road)**

Tier: **SUB-REGIONAL** Funding: **HFB**

Municipality:

Attendees

	Name	Phone No.	E-mail
Division Bridge Manager	Jami Guynn	336-903-9220	jcguyenn@ncdot.gov
Division Environmental Officer	Heath Slaughter	336-903-9202	hslaughter@ncdot.gov
Division Bridge Program Tech	Mark Johnson	336-903-9170	mgjohnson4@ncdot.gov
Division Construction Engineer	Trent Beaver	336-903-9117	tbeaver@ncdot.gov
Division Bridge Maint. Engineer			
Division Utility Coordinator			
PPU	Pam Williams	919-707-6608	prwilliams@ncdot.gov
PPU	Christy Huff	919-707-6606	chuff@ncdot.gov
Hydraulics Engineer	Rusty Lassiter	919-707-6732	rlassiter@ncdot.gov
Hydraulics Engineer			
Region III Locating Engineer			
Division Locating Engineer			
USACE			
NCDEQ-DWR			
USFWS	Andrew Henderson	828-258-3939	andrew_henderson@fws.gov
NCWRC	Marla Chambers	704-984-1070	marla.chambers@ncwildlife.org

Existing Features

Feature Bridged: **040177 over Beaver Creek on SR 1181 (Hartsog Ford Road)**

Ex. Bridge Clear Deck Width: **19 (Ft.)**

Appr. Roadway Width: **17 (Ft.)**

Bridge Length: **51 (Ft.)**

Deck Width (Out To Out): **20 (Ft.)**

Water Depth: **2 (Ft.)**

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

Year Built: **1961**

Posted: **SV 9**

TTST: **9**

Superstructure: **TIMBER FLOOR ON
I-BEAMS**

Abutment: **E.BTS:TIMBER
CAPS/TIMBER POST&CONCRETE
SILLS @ VAR. CENTERS**

Pier Type:

Temp. Shored:

Impact to School(s): **No Response**

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

PRI: **63.0569** DP: **12.272** SR: **16.59** School Bus crossings per day: **N/A**

Posted Speed Limit Vicinity: **55 mph Statutory**

Detour **Off-Site** ☐ **Stage Construction** ☒ **To either side** **New Alignment** ☐ **On-site** ☐

If Off-Site, Description Of Detour Route: **SR 1147 to NC 163 to SR 1182**

Approximate Length Of Detour? **Approximately 7.7 miles** contain one lane low water bridge (BR#355). This location floods frequently and would not all the residents a way out with BR# 177 closed for construction. The low water bridge is 2.9 miles from BR# 177 and located on the same SR with no other SR's in between.

Improvements Needed To Road(s) On Detour? **No**

Div. Traffic Eng. Recommend Off-site detour signing? **Trailblazing with Street/Road names**

Improvements Needed To Bridges On Detour? **No**

Are future plans for upgrading this roadway either at or in the vicinity of this project? **No**

Are Bridges On Detour Currently Programmed? **No**

Are There EMS Or Business Access Issues? **High Impact (loop road)**

Are There Any Railroad Crossings On Detour? **No**

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

Overhead Utility Lines **In Conflict**

Power Transmission Lines In Conflict

Telephone **In Conflict** **-underground & aerial**

Cable Lines In Conflict

Fiber Optic **In Conflict**

Water In Conflict

Sewer In Conflict

Natural Gas In Conflict

Other In Conflict

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

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

Structure No: 040177

Environmental

Wetlands At Site: **No** Comments:

Endangered Species In County: **Bog Turtle, Carolina northern flying squirrel, Northern long-eared bat, BlueRidge goldenrod, Heller's blazing star, Roan mountain bluet, Spreading avens, Swamp pink, Virginia spiraea, Rock gnome lichen**

T&E species effect: **No issues**

Trout Watershed: **Yes**

TVA County: **No**

CAMA County: **No**

Primary Nursery Area: **No**

Moratoria: **Yes** Which species: **Brown trout** Duration: **Oct 15 – Apr 15**

Permits discussion:

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 or Power Generation:	No
Water Supply Reservoir:	No	Nutrient Sensitive Waters:	No
Public Use Boat Ramp:	No	Cemeteries:	No
VAD/Farmland Protection:	No	Game Lands:	No

Known Or Potential Historic Properties In The Area:

Architecture: No Survey Required **Archaeology: NHS**

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

Impacts to a Church, Community Center, Or Other Public Facility? **No**

Is this a Statewide Bicycle Route or a Local Non-Marked Bicycle Route: **No**

Comments: **No**

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 Bents:

Hydraulics

FEMA Approval? **Yes, redelineated** (MOA) State Stormwater Permit? **No**
Is There Unusual Scour Potential? **No** Is Protection Needed? **Standard protection**
Are Banks Stable? **Yes** Is Protection Needed? **Standard protection**
Appreciable Amount Of Large Debris? **No**
Placement Of Bents In The Water Be Allowed: Where:
Structure Type: **Bridge** If Bridge: **CS**
Length Of Structure: **60'** Number Of Spans: **1**
Waive offset: **Yes. Keep the existing footing on south (right side) & waive offset.** EB Cap: **4'-0"** Skewed: **No**

Items To Be Discussed / Resolved At FSM By Attendees

Stage Construction ☒
maintain a minimum of 12-foot clear roadway width for one-lane, two-way traffic. The 12-foot clear roadway width constitutes a 10-foot travel lane and a 1-foot paved offset (shy distance) on both sides. Temporary alignments shall be designed for no less than 15 mph.

Off-Site ☐ **New Alignment** ☐ **On-site** ☐

Environmental Document Prepared & signed by DEO: Minimum Criteria Checklist ☒
ADT: **660 per BIR** NHS: **No** Tier: **SUB-REGIONAL** Func. Class: **Local**
Bridge Min. Clear Deck Width Recommended by Div.: **30' Out to out**
Roadway lane width: **10** ' with **3** ' shoulders
Extension of Paved shoulders: **N/A**
Pave to face of guardrail and taper **8:1 to travel lane/paved shoulder? Yes**
Min. Pavement Surface Course: **2½"** Existing App. Roadway: **17**
Pavement Marking: **Paint** Pavement Markers: **None**
Will Railroad Involvement Be Required: **No** Method of Clearing: **II Modified**
Truck Percentage: **6 % per BIR** Reasonable Safe Speed per SIR: **35 mph**
Liquidated damages: will be imposed after **90** days of closure/construction. Amt: **\$ 500** per day
CEI by? **NCDOT** R/W by? **DBT** R/W monuments? **pin/cap**
Salvageable materials: **All steel I beams, diaphragms, bearing plates, etc., and all timber caps and all good supplemented legs (Care with demolition needs to be taken)**
Contact Person/number: **Chad Cox (336) 384-2562**
Deliver to: **Warrensville Bridge Maintenance Yard 322 Northwest School Road, Warrensville, 28693**
Removal of previous structure remnant abutments/piers: **no**
Sequencing priority in construction? **850012 highest priority, then 040177, then 130115, then 980020**
Comments:

- **Cut the timber pile to natural ground & keep the concrete footer. Slope on the left side.**
- **Flatten slope on existing shoulder to maintain parking if possible.**



