

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

WBS No.: **17BP.11.R.98**

Field Scoping Meeting Date: **May 5, 2014**

Division: **11**

Location: **On-site**

Route (US/NC/SR): **SR 1728**

County: **WILKES**

Project Description: **Bridge No. 960151 over DUNGEON CREEK on SR 1728 (Longbottom Road)**

Tier: **Sub-Regional**

Municipality: **No**

**Attendees**

|                             | <b>Name</b>            | <b>Phone No.</b>    | <b>E-mail</b>                        |
|-----------------------------|------------------------|---------------------|--------------------------------------|
| Division Bridge Manager     | <b>Jami Guynn</b>      | <b>336-903-9220</b> | <b>jcguyenn@ncdot.gov</b>            |
| Division Environmental Off. | <b>Heath Slaughter</b> | <b>336-903-9202</b> | <b>hslaughter@ncdot.gov</b>          |
| Division Bridge Maint. Eng. | <b>David Wayne</b>     | <b>336-903-9124</b> | <b>Dwayne@ncdot.gov</b>              |
| Hydraulics Engineer         | <b>Randy Henegar</b>   | <b>919-707-6726</b> | <b>rhenegar@ncdot.gov</b>            |
| Hydraulics Engineer         | <b>Marc Shown</b>      | <b>919-707-6751</b> | <b>mshown@ncdot.gov</b>              |
| Hydraulics Engineer         | <b>Rusty Lassiter</b>  | <b>919-707-6732</b> | <b>rlassiter@ncdot.gov</b>           |
| TPMU                        | <b>Virginia Mabry</b>  | <b>919-707-6604</b> | <b>vmabry@ncdot.gov</b>              |
| Bridge Management           | <b>Paul Garrett</b>    | <b>919-707-6457</b> | <b>pgarrett@ncdot.gov</b>            |
| Division Const. Engineer    | <b>Trent Beaver</b>    | <b>336-903-9117</b> | <b>tbeaver@ncdot.gov</b>             |
|                             |                        |                     |                                      |
|                             |                        |                     |                                      |
|                             |                        |                     |                                      |
| NCWRC                       | <b>Marla Chambers</b>  | <b>704-984-1070</b> | <b>Marla.chambers@ncwildlife.org</b> |
|                             |                        |                     |                                      |
|                             |                        |                     |                                      |

## **Existing Features**

Feature Bridged: **960151 over DUNGEON CREEK on SR 1728 (Longbottom Road)**

Ex. Bridge Clear Deck Width: **24.17 (Ft.)** Roadway width: **18 (Ft.)**

(Bridge / Culvert) Length: **26 (Ft.)** Deck Width (Out To Out): **25(Ft.)**

Water Depth: **1(Ft.)** Height Bed-To-Crown: **6(Ft.)**

Year Built: **1966** Posted: SV **15** TTST: **20**

Superstructure: **Timber Floor on I-Beams** Abutment: **Timber caps, posts & sills** Pier Type: **NONE**

Temp. Shored: **Yes**

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

PRI: **60.3** DP: **8.4** SR: **33.12** School Bussing crossings per day: **3 buses for a total of 6 crossings per day**

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

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

**Alignment: east of existing**

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

Are There EMS Or Business Access Issues? **No response**

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 **Yes**

Cable Lines In Conflict

Fiber Optic In Conflict **Yes – Avoid telephone vault**

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**

## **Environmental**

Wetlands At Site **No**

Comments:

Endangered Species In County: **Bog Turtle; Northern Long-Eared Bat**

T&E species effect: **No**

Trout County : **Yes**

TVA County: **No**

CAMA County; **No**

Primary Nursery Area: **No**

Moratoria: **Yes**

Which species: **Rainbow Trout**

Duration : **January 1 to April 15**

Permits:

Water Quality Classification: **C**

303d: **No**

Coast Guard Permit? **No**

Drainage Basin: **Yadkin**

Riparian Buffer Rules: **No**

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

National Forest: **No**

Wildlife Refuge/Gamelands: **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**

VAD-Farmland preservation: **No**

Known Or Potential Historic Properties In The Area:

**Architecture: No Survey Required**

**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? **No**

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

Comments: **Approx. 0.5 miles from #153 and 250 feet from #150.**

## **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? No State Stormwater Permit? **No**  
Is There Unusual Scour Potential? Is Protection Needed? **Standard**  
Are Banks Stable? **Yes** Is Protection Needed? **Standard**  
Appreciable Amount Of Large Debris?  
Placement Of Bents In The Water Be Allowed: Where:  
Superstructure Type: **Culvert** If Bridge: If girder; why?  
Length Of Structure: Min. Number Of Spans: Span Arrangement:  
Waive offset: Cap: Skewed:  
**2 @ 10' x 5' RCBC with low flow barrel with sills**

## Items To Be Discussed / Resolved At FSM By Attendees

Off-Site Detour ☐ Stage: ☒ New Alignment: ☐ On-site detour ☐  
Clear roadway width (CRW):  
12' lane with 1' shy each side  
Temp. Signals: Yes  
Stage speed: 20mph  
Alignment: east of existing  
Environmental Document Prepared by DBE: Low Impact Data Spreadsheet ☐ Minimum Criteria Checklist ☐  
ADT: **220 per SIR** NHS: **0** Tier: **Sub-Regional** Func. Class: **Local**  
Bridge Min. Clear Deck Width Recommended by Div.:  
Roadway lane width **9'** with **4'** shoulders (eliminate guardrail-see comments)  
Extension of shoulders: **extend 50' from the outermost culvert wing wall in each direction and then taper to the existing shoulder on an 8:1 taper on both sides of the proposed culvert**  
Pave to face of guardrail and taper 8:1 to travel lane/paved shoulder? **N/A**  
Min. Pavement Surface Course: **2-1/2"** inches: Existing Roadway: **18' paved**  
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: **30 mph per SIR**  
Liquidated damages: will be imposed after **60** days of construction. Amt: \$ **350** per day  
**(60 days for #150 and 60 days for #151)**  
CEI by? **NCDOT** R/W by? **DBT** R/W monuments? **Pin/caps to be provided & installed by DBT**  
Salvageable materials: **all steel I beams, bearing plates, and all timber caps**  
Contact Person/number: **David Wayne (336) 903-9124**  
Deliver to: **303 Statesville Road, North Wilkesboro, NC 28659**  
Removal of previous structure remnant abutments/piers: **No**

Sequencing priority in construction? **1<sup>st</sup> priority, Construct #150 and #151 concurrently; pave between #150 and #151.**

Comments: **temp. signals due to blind curve.**

**Stage construct to downstream side (east) of Bridge No. 960150. Eliminate guardrail at culvert. Lengthen culvert to outside clear zone. Avoid Telephone Vault**

## Wilkes 960151

