

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

WBS No.: **17BP.11.R.113**

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

Division: **11**

Location: **On-site**

Route (US/NC/SR): **SR1728**

County: **WILKES**

Project Description: **Bridge No. 960150 over DUNGEON CREEK on SR1728 (Longbottom Road)**

Tier: **Sub-Regional**

Municipality: **No**

Attendees

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

Existing Features

Feature Bridged: **960150 over DUNGEON CREEK on SR 1728 (Longbottom Road)**

Ex. Bridge Clear Deck Width: **24.33 (Ft.)** Roadway width: **18 (Ft.)**

(Bridge / Culvert) Length: **27 (Ft.)** Deck Width (Out To Out): **25.5(Ft.)**

Water Depth: **1(Ft.)** Height Bed-To-Crown: **5(Ft.)**

Year Built: **1966** Posted: SV **17** TTST: **22**

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: **52.3** DP: **2** SR: **58.07** School Bussing crossings per day: **3 buses for a total of 6 crossings per day**

Posted Speed Limit Vicinity: **55 (mph) statutory**
SIR

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 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 **None** Comments:

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

T&E species effect: **No**

Trout County : **Yes, wild trout**

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. 250 feet from #151.**

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? **No** 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 4' RCBC low flow barrels with sills

Items To Be Discussed / Resolved At FSM By Attendees

Off-Site Detour ☐

Stage: ☒

New Alignment: ☐

On-site detour ☐

**Clear roadway width (CRW): 12ft
10' travel lane with 1' shy each
side
Temp. Signals: Yes, blind curve
Stage speed: 20mph
Alignment: east of existing
Bridge**

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; **extend shoulders to eliminate the need for guardrail**

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? **Yes**

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, diaphragms, bearing plates, and all timber caps and timber floor if able to remove without splintering**

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? **1st priority, Build concurrently with #151. Pave between #150 and # 151.**

Comments: **Pave between #150 and #151. stage construct. Need temp signals due to blind curve.**

Stage construct to east of existing Bridge No. 960150. Eliminate guardrail at culvert. Lengthen culvert to outside clear zone. Avoid Telephone Vault.

Wilkes 960150

