

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

WBS No.: **17BP.11.R.95**

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

Division: **11**

Location: **On-site**

Route (US/NC/SR): **SR1351**

County: **WATAUGA**

Project Description: **Bridge No. 940046 over GRASSY CREEK on SR1351 (Castle Ford 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
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
NCWRC	Marla Chambers	704-984-1070	Marla.chambers@ncwildlife.org

Existing Features

Feature Bridged: **940046** over **GRASSY CREEK on SR1351 (Castle Ford Road)**

Ex. Bridge Clear Deck Width: **19.14 (Ft.)** Roadway width: **18 (Ft.)**

(Bridge / Culvert) Length: **26 (Ft.)** Deck Width (Out To Out): **20.79 (Ft.)**

Water Depth: **2(Ft.)** Height Bed-To-Crown: **8(Ft.)**

Year Built: **1963** Posted: SV **10** TTST: **14**

Superstructure: **ST M-BM ;** Abutment: **TM** Pier Type: **NONE**

Temp. Shored: **No**

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

PRI: **61.9** DP: **11.8** SR: **21.34** School Bussing crossings per day: **No Response**

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

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

If Off-Site, Description Of Detour Route: **SR1333-NC194-SR1334-SR1350-SR1347-SR1352**

Approximate Length Of Detour? **10.3 miles**

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

Div. Traffic Eng. Recommend Off-site detour signing? **Trailblazing**

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

Are Bridges On Detour Currently Programmed?

Are There EMS Or Business Access Issues?

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

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

Overhead Utility Lines In Conflict **Yes**

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 **3 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:

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

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

Trout County : **Yes**

TVA County: **Yes**

CAMA County; **No**

Primary Nursery Area: **No**

Moratoria: **Yes**

Which species: **Brown Trout**

Duration : **October 15 to April 15**

Permits: **NWP 14, TVA**

Water Quality Classification: **C per DWQ**

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: **No**

Architecture: No Historic Properties Present

Archaeology: No Historic Properties Affected

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: **Yes, NC-11 Mountain Route (NC Statewide Pedestrian and Bicycle Plan);**

Comments: **220 feet south of #47**

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?

Are Banks Stable? **Yes** Is Protection Needed?

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:

1 @ 24' x 5', 3 sided. Shift alignment to the upstream side (N quad) to avoid impacts to the parallel stream in the SW quadrant.

Items To Be Discussed / Resolved At FSM By Attendees

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

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

ADT: **250 vpd/TEAAS (2014)** NHS: **0** Tier: **Sub-Regional** Func. Class: **Local**

Bridge Min. Clear Deck Width Recommended by Div.:

Roadway lane width **9' with 6' shoulders including 4' paved shoulder for bike accommodations; Eliminate guardrail**

Extension of Paved shoulders: **N/A**

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**

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

Will Railroad Involvement Be Required: Method of Clearing: **III**

Truck Percentage: : **6 % per BIR;** Reasonable Safe Speed per SIR: **40 mph**

Liquidated damages: will be imposed after **60** 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: **All steel I beams and timber caps**

Contact Person/number: **David Scott 828-268-6061 (Office)**

Deliver to: **Boone Bridge Maintenance Yard - 1989 NC 194 N, Boone, NC 28607**

Removal of previous structure remnant abutments/piers:

Sequencing priority in construction? **High priority; build consecutively 46, 47, 48 and 149**

Comments: **Pave 100' before 46 to 100' past 48. Maintain typical through Bridge Nos. 46, 47 & 48. Shift #46 upstream to avoid parallel stream and potential for retaining wall.**

Watauga 940046

