

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

WBS No.: **17BP.12.R.104**

Field Scoping Meeting Date: **November 7, 2016**

Division: **12**

Location: **On-site**

Route (US/NC/SR): **SR 1248**

County: **Lincoln**

Project Description: **# 540057 on SR 1248 (South Fork Road) over S. Fork Catawba River**

Tier: **Subregional**

Municipality: **No**

Attendees

	NAME	PHONE	EMAIL
Division Bridge Manager	Steve Rackley	704-480-9034	srackley@ncdot.gov
Division Environmental Supervisor	Trish Beam	704-480-9044	pdbeam@ncdot.gov
Hydraulics Engineer	Paul Fisher	919-707-6720	pfisher@ncdot.gov
PPU	Pam Williams	919-707-6608	prwilliams@ncdot.gov
US FWS	Andrew Henderson	828- 258 - 3939 x 227	andrew_henderson@fws.gov
Environmental Specialist	Jeff Wyatt	704-480-9041	jlwyatt@ncdot.gov
Div. 12 Bridge Maintenance Technician	Ryan Barbee	704-480-9029	rbarbee@ncdot.gov
L & S - Locating Engineer	Stacy Cooke	704-284-3331	slcooke@ncdot.gov

Existing Features

Feature Bridge: # **540057 on SR 1248 (South Fork Road) over S. Fork Catawba River**

Ex. Bridge Clear Deck Width: **24 (Ft.)**

Approach Roadway width: **18 (Ft.)**

(Bridge / Culvert) Length: **330 (Ft.)**

Deck Width (Out To Out): **26.4 (Ft.)**

Water Depth: **8' (Ft.)**

Height Bed-To-Crown: **28' (Ft.)**

Built date: **1958**

Posted: SV: **34** TTST: **38**

Superstructure Type: **RC on I-Beams**

End Bent Material Type: **RC Cap on Steel**

Interior Bent Material Type: **RC Post & Beams**

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

Sufficiency Rating: **20.6** ; DP: **0** School Bus crossings per day: **4 trips**

Posted Speed Limit Vicinity: **35 (mph)**

Detour: Off-Site ☒ Stage Construction: ☐ On-site: ☐

If Off-Site, Description Of Detour Route: **SR 1252 – SR 1253 – SR 1243**

Approximate Length Of Detour? **1.8 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 future plans for upgrading this roadway either at or in the vicinity of this project? **No**

Are Bridges On Detour Currently Programmed? **Yes; # 54**

Sequencing priority in construction? **construct # 57 1st & # 54 2nd ; this one is on #54's detour route**

Are There EMS Or Business Access Issues? **low impact**

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

Cable Lines In Conflict - 36" cable in southwest quadrant

Fiber Optic In Conflict

Water In Conflict –**24" WD in northwest quadrant**

Sewer In Conflict

Natural Gas In Conflict

Other

Based On The Past History Near This Project Site, What Is The Estimated Time Required To Complete Utility Adjustments **6 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? **Northern long-eared bat (NLEB); Dwarf-Flowered heartleaf and Michaux's sumac – Unresolved (to be surveyed from March to May 2017 by DEO)**

T&E species effect: **NLEB - May Affect, but the activity is accepted under the Biological Opinion on the Northern Long-eared bat final 4d rule**

Trout County : **No**

TVA County: **No**

CAMA County: **No**

Primary Nursery Area: **No**

Moratoria: **No** Which species : Duration:

Permits Required:

Water Quality Classification: **Class WS IV** 303d: **No**

Coast Guard Permit? Drainage Basin: **Catawba** Riparian Buffer rules: **None**

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:

Historic Architecture Survey? **No Survey Required** Archaeology Survey? **NHP**

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

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

Project in on a Statewide Bicycle Route or a Local Non-Marked Bicycle Route: **Yes**

Comments: **Greenway at-Grade; Carolina Thread Trail – per Lincoln County & Catawba Lands Conservancy, requested a pedestrian X-ing with Signal Attenuation –they can not provide any funding for signal. Division doesn't see need to put pedestrian signal installation and would be betterment, no power out there now.**

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 **NO** Comments:

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

Possible Foundation Type:

Hydraulics

FEMA Approval? **Yes** (MOA)

Is There Unusual Scour Potential? **No**

Is Protection Needed? **STD**

Are Banks Stable? **Yes**

Is Protection Needed? **STD**

Appreciable Amount Of Large Debris? **No**

Placement Of Bents In The Water Be Allowed: **Yes** Where: **2 at edge of water at low flow**

Superstructure Type: **Bridge** If Bridge: **BB** If girder; why?

Length Of Structure: **340 ft** Min. Number Of Spans: **4** Span arrangement: **1@70; 3@90**

Waive setback: **No** Skew: **75 degrees**

Note: use all the same size box beams on this bridge; no step cap; will probably need to hold low steel

Items To Be Discussed / Resolved At FSM By Attendees

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

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

ADT: **530 SIR** NHS: **No** Tier: **Subregional** Func. Class: **Local, Rural**

Bridge Min. Clear Deck width Recommended by Div: **33' OTO with Oregon Rail**

Roadway lane width 10' with 6' shoulders including 4' paved shoulders for bike accommodations

Paved shoulders to be extended to end of construction limits: – **Yes**

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

Min. Pavement Surface Course: **2 ½"** inches: Existing Roadway: 20' **paved**

Pavement markings: **Paint** Pavement Markers: **None**

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

Truck Percentage: : 6 %; **3% Duals & 3% TTST** Reasonable Safe Speed: 35 **mph**

Liquidated damages: will be imposed after 190 days of closure. Amt: \$ 500 per day

CEI: **DOT** R/W: **by DBT** R/W monuments: **Pin & Caps**

Salvageable materials: **None**

Contact Person/number:

Deliver to:

Removal of remnant abutments/piers:

Comments: **shop curve bridge anchor units on east end of bridge; replace bollard & wood entrance with like material; look at possible elimination of drive in southwest quadrant;**

