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 1252**

County: **Lincoln**

Project Description: **# 540054 on SR 1252 (Laboratory Road) over INDIAN CREEK**

Tier: **Subregional**

Municipality: **No**

Attendees

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: **# 540054 on SR 1252 (Laboratory Road) over INDIAN CREEK**

Ex. Bridge Clear Deck Width: **24 (Ft.)** Approach Roadway width: **19 (Ft.)**

(Bridge / Culvert) Length: **200 (Ft.)** Deck Width (Out To Out): **26.4 (Ft.)**

Water Depth: **4' (Ft.)** Height Bed-To-Crown: **27' (Ft.)**

Built date: **1955** Posted: SV: **26** TTST: **32**

Superstructure Type: **RC on I-Beams** End & Interior Bents: **RC Caps on Steel Piles**

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

Sufficiency Rating: **37.74 ;** DP: **0** School Bus crossings per day: **4 trips– moderate impact**

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

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

If Off-Site, Description Of Detour Route: **SR 1248 - SR 1243 – SR 1242 – SR 1239**

Approximate Length Of Detour? **3.8 miles**

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

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

Improvements Needed To Bridges On Detour? **Yes, # 57 to be in this contract**

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

Are Bridges On Detour Currently Programmed? **Bridge # 57 is on detour route(SR 1248)**

Sequencing priority in construction? **construct # 57 before # 54 since it is on the 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?

Overhead Utility Lines	In Conflict - Yes	
Power Transmission Lines	In Conflict - Yes	
Telephone	In Conflict - Yes	**(TC - there are 2 lines of PVC pipe attached to the bridge on the west side)**
Cable Lines	In Conflict - Yes	
Fiber Optic	In Conflict	**- located on west side of bridge; not attached**
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 **_4_ 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; Michaux's sumac**

T&E species effect: **None, except 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 discussion:

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? **No Survey Required**

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:**

1) Carolina Thread Trail – indicates planned greenway trail along Indian Creek traversing this location (segment is Gaston County Line to Rail Trail)-http://www.carolinathreadtrail.org/wp content/uploads/2015/08/CTT_Master_Plan_Lincoln_County_Communities_City_of_Lincolnton.pdf

2) Provide a greenway crossing on the southern end of the bridge underneath SR 1252 with a minimum 8-foot vertical clearance and a 12-foot wide turf bench.

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? moderate Is Protection Needed? **STD**

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

Appreciable Amount Of Large Debris? **Yes**

Placement Of Bents In The Water Be Allowed: **Yes** Where: **1 @ water's edge**

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

Length Of Structure: **220 ft** Min. Number Of Spans: **4** Span Arrangement: **3 @ 60; 1 @ 40**

Waive offset: **No** Cap: **4'-0"** Skewed: **90 degrees**

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: **1900 SIR** NHS: **No** Tier: **Subregional** Func. Class: **Local; Rural**

Bridge Min. Clear Deck width Recommended by Div.: **33' OTO with 2-bar rail for bike route**

Roadway lane width **11'** 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: 18' **paved**

Pavement marking: **Paint** Pavement Markers: **None**

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

Truck Percentage: : **6 %** Reasonable Safe Speed: **50 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: **remove old abutments upstream on north & south banks; do not remove old interior footing in stream; however, not shown in survey file**

- Comments**: there is a stream gauge station under the bridge with an unknown owner; the Design-Build Team shall coordinate with the owner; remove existing concrete footing in water**

SR 1222
55
'12: 1000
SR 1248
'13: 700
SR 1247
'13: 1500
SR 1237
Laboratory
'12: 1800
SR 1252
SR 1866
54
SR 1252
'12: 1300
'13: 990
Rte 2/Cherryville to Mount Holly
SR 1240
SR 1616
SR 1609
'12: 1300
57
Southside
'12: 610
'13: 6700
SR 1423
SR 1422
'13: 6500
SR 1299
'13: 600
'13: 6400
321
SR 1303
'12: 1700
'13: 5500
Long Shoals
SR 1304
SR 1243
SR 1242
SR 1244
'12: 1200
SR 1244
SR 1245
'12: 350
SR 1614
SR 1621
SR 1241
SR 1526
SR 1644
'13: 51
SR 1299
12