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 1194**

County: **Linclon**

Project Description: **# 540140 on SR 1194 (Howards Creek Mill Road) over HOWARDS CREEK**

Tier: **Subregional**

Municipality: **None**

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: **# 540140 on SR 1194 (Howards Creek Mill Road) over HOWARDS CREEK**

Ex. Bridge Clear Deck Width: **24.0 (Ft.)** Approach Roadway width: **18 (Ft.)**

(Bridge / Culvert) Length: **91 (Ft.)** Deck Width (Out To Out): **24.0 (Ft.)**

Water Depth: **2' (Ft.)** Height Bed-To-Crown: **15' (Ft.)**

Built date: **1962** Posted: SV: **41** TTST:

Superstructure: **Precast Prestressed Conc. (PPC) channels** Abutment: **Vertical-Timber**

End Bent Interior Bent Material Type: **Timber piles; PPC Caps** Interior Bents: **Conc. Encased**

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

Sufficiency Rating: 28.54**;** DP: **0** School Bussing crossings per day: **4 trips per day**

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

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

If Off-Site, Description Of Detour Route: **SR 1113 – SR 1200 – NC 27**

Approximate Length Of Detour: **3.3 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 future plans for upgrading this roadway either at or in the vicinity of this project? **No**

Are Bridges On Detour Currently Programmed? **# 121 & # 144**

Sequencing priority in construction? **# 540140, is the 3rd priority in consecutive order amongst # 121, # 144 & #140**

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

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 - **Yes**
Cable Lines	In Conflict
Fiber Optic	In Conflict
Water	In Conflict
Sewer	In Conflict
Natural Gas	In Conflict
Other	In Conflict

Based On Past History at Project Site, The Estimated Time Required To Complete Utility Adjustments **4** Mths

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**

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 Required:

Water Quality Classification: **Class "C"** 303d: **No**

Coast Guard Permit? **No** 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 Archit. Survey ? **SHPO reviewing** Archaeology Survey ? **SHPO reviewing assessment**

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: **No**

Comments: **No accommodations for proposed planned shared-use path (greenway) under bridge due to proximity to historic mill, parallel jurisdictional stream and dam upstream.**

https://www.ncdot.gov/bikeped/download/GuidelinesForGreenwayAccommodations.pdf -

Geotechnical

Are There Any Historical And / Or Vibration Sensitive Structures Near By **Yes** Comments: **monitor**

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: **Predrill piles and vibration monitoring during construction**

Hydraulics

FEMA Approval? **Yes; pressure flow** (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:

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

Length Of Structure: **90 ft** Min. Number Of Spans: **2** Span Arrangement: 1 @ 50; 1 @ 40

Waive setback: **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: **450 SIR** NHS: **No** Tier: **Subregional** Func. Class: **Local, Rural**

Bridge Min. Clear Deck width Recommended by Div.: **27' OTO (2-Bar Rail)**

Roadway lane width _10'_ with _**3'**_ shoulders including _**0**_ paved shoulders

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

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

Min. Pavement Surface Course: **2 ½"** inches: Existing Roadway: 17' **paved**

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

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

Truck Percentage: : **_6_ %**; **3% Duals & 3% TTST** Reasonable Safe Speed: **40 mph**

Liquidated damages: will be imposed after **_120_** 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 really old structure under bridge**

Comments: **pave through the intersection to furthest radius on –Y-Line (SR 1195); replace rock wall downstream right in southwest quadrant by constructing retaining wall parallel to roadway to avoid further impacts; may block 6 x 6 opening in front of the building with guardrail; remove concrete footing in stream; monitor vibration for Howard's Creek Mill and dam; pre-drill both for piles due to mill and dam.**

SR 1436
'12: 1300
SR 1113
'13: 380
NC 6 Pied Spur
121
SR 1113
SR 1197
SR 1002
'13: 1600
SR 1130
12
SR 1195
SR 1194
SR 1193
142
SR 1765
SR 1200
SR 2052
SR 2019
SR 1195
140
144
SR 1196
SR 1194
SR 1192
SR 1002
4
27
'10: 2100
SR 1193
SR 1921
45
SR 1200
'13: 380
'13: 4000
'13: 1700
27
27
'13: 1100
SR 1201