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

WBS **17BP.12.R.104**

Field Scoping Meeting Date: **February 24, 2016**

Division: **12**

Location: **On-site**

Route (US/NC/SR): **SR 2245**

County: **CLEVELAND**

Project Description: **Bridge No. 220067 over Beason Creek on SR 2245** (Bethlehem Rd)

Tier: **SUBREGIONAL**

Funding: **STI**

Municipality: **No**

Attendees

	Name	Phone No.	E-mail
Division Bridge Manager	**Steve Rackley**	**704-480-9034**	**srackley@ncdot.gov**
Division Environmental Supervisor	**Trish Beam**	**704-480-9044**	**pdbeam@ncdot.gov**
Division Environmental Specialist	**Jeff Wyatt**	**704-480-9041**	**jlwyatt@ncdot.gov**
Division Construction Engineer	**Larry Carpenter**	**704-480-9020**	**lcarpenter@ncdot.gov**
Division Bridge Engineer	**Travis Jordan**	**828-466-5525**	**trjordan1@ncdot.gov**
Division Utility Coordinator	**Chad Drewery**	**704-480-9051**	**cwdrewery@ncdot.gov**
Division Locating Engineer	**James Jeffreys**	**704-480-5531**	**jjeffreys@ncdot.gov**
Region III Locating Engineer	**Pat Tuttle**	**336-969-9550**	**ptuttle@ncdot.gov**
PPU	**Pam Williams**	**919-707-6608**	**prwilliams@ncdot.gov**
PPU	**Laura Sutton**	**919-707-6607**	**lsutton@ncdot.gov**
Hydraulics Engineer	**Paul Fisher**	**919-707-6720**	**pfisher@ncdot.gov**
Hydraulics Engineer	**Roger Djernes**	**919-707-6715**	**rdjernes@ncdot.gov**
USACE	**Steven Kichefski**	**828-271-7980 x234**	**Steven.L.Kichefski@usace.army.mil**
NCDEQ-DWR	**Donna Hood**	**704-663-1699**	**donna.hood@ncdenr.gov**
USFWS	**Andrew Henderson**	**828-258-3939**	**andrew_henderson@fws.gov**
NCWRC	**Marla Chambers**	**704-984-1070**	**marla.chambers@ncwildlife.org**

Existing Features

Feature Bridged: **220067 over Beason Creek on SR 2245** (Bethlehem Rd)

Ex. Bridge Clear Deck Width: **25 (Ft.)** Roadway Width: **24.333 (Ft.)**

Bridge Length: **76 (Ft.)** Deck Width (Out To Out): **25.333 (Ft.)**

Water Depth: **1 (Ft.)** Height Bed-To-Crown: **15 (Ft.)**

Year Built: **1951** Posted: SV **14** TTST: **20**

Superstructure: **TIMBER DECK ON I-BEAMS** Abutment: **TIMBER CAPS/TIMBER PILES** Pier Type: **TIMBER CAPS/TIMBER PILES**

Temp. Shored: **NO**

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

PRI: **64.92** DP: **44.30** **SR: 22.24**

School Bus crossings per day: **0 crossings, already buses rerouted due to bridge weight restrictions**

Posted Speed Limit Vicinity: **45 mph**

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

If Off-Site, Description Of Detour Route: **SR 2243 to SR 2246 to SR 2247**

Approximate Length Of Detour? **3.3 miles**

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

Div. Traffic Eng. Recommend Off-site detour signing? **Trailblazing with Street/Road names**

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? **No**

Sequencing priority in construction: **1st priority in contract; may build at the same time as 220034**

Are There EMS Or Business Access Issues? **No response**

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

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

Overhead Utility Lines	In Conflict	**possible**
Power Transmission Lines	In Conflict	
Telephone	In Conflict	
Cable Lines	In Conflict	
Fiber Optic	In Conflict	
Water	In Conflict	**Yes**
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: **No** Comments:

Endangered Species In County? **Northern long-eared bat (NLEB); Dwarf-flowered heartleaf**

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: Which species: Duration:

Permits discussion:

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

Coast Guard Permit? **No** Drainage Basin: **Broad** 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 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: **No**

Architecture: No Survey Required **Archaeology: NHP**

Is The Bridge Structure Itself, Or Any Part Thereof, Considered Historic:

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:

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:
End Bents: Interior Bents:

Hydraulics

FEMA Approval? **Yes** (MOA) State Stormwater Permit? **Yes**

Is There Unusual Scour Potential? **Moderate** Is Protection Needed? **Std.**

Are Banks Stable? **No** Is Protection Needed? **Std.**

Appreciable Amount Of Large Debris? **No**

Placement Of Bents In The Water Be Allowed: **No** Where:

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

Length Of Structure: **90 ft** Min. Number Of Spans: **1** Span Arrangement: **1 @90**

Waive offset: **Yes** EB Cap: **4'-0"** Skewed:

Items To Be Discussed / Resolved At FSM By Attendees

Off-Site ☒	**Stage Construction** ☐	New Alignment ☐	**On-site** ☐
	Clear roadway width: Temp. Signals:		Clear roadway width: one lane w/ signals: or two lanes CRW:
	Alignment: N, E, W, S	Alignment: N, E, W, S	Alignment: N, E, W, S

Environmental Document Prepared by DBT and signed by DEO:

Low Impact Data Spreadsheet ☐ Minimum Criteria Checklist ☒

ADT: **1800 SIR** NHS: **No** Tier: **SUBREGIONAL** Func. Class: **Local**

Bridge Min. Clear Deck Width Recommended by Div.: **33' OTO Vertical Face Rail**

Roadway lane width: **11**' with **4' s**houlders, including **2'** paved shoulders

Extension of Paved shoulders: end of **construction limits - Yes**

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

Min. Pavement Surface Course: **2½"** Existing App. Roadway: **20'**

Pavement Marking: **Paint** Pavement Markers: **None**

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

Truck Percentage: **2% Duals 1% TTST** Reasonable Safe Speed per SIR: **45 mph**

Liquidated damages: will be imposed after **<u>90</u>** days of closure/construction. Amt: **$ <u>500</u>** per day

CEI by? **NCDOT** R/W by? **DBT** R/W monuments? **Pin & Caps**

Salvageable materials: **None**

Contact Person/number:

Deliver to:

Removal of previous structure remnant abutments/piers:

Sequencing priority in construction? **1st priority in Contract**

Comments:

Google Maps

4948 Barrett Rd, Kings Mountain, NC 28086 to 447-499 Bethlehem Rd, Kings Mountain, NC 28086

Drive 3.3 miles, 6 min

220067 Detour Route