NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

FIELD SCOPING MEETING WORKSHEET

Design Build Process

WBS No.: **48066.1.1 (B-5872)** Field Scoping Meeting Date: **March 15, 2016**

Division: **13** Location: **On-site**

Route (US/NC/SR): **SR 1115** County: **Burke**

Project Description: **Bridge No. 110126 over Double Branch on SR 1115 (Dentons Chapel Road)**

Tier: **Sub-regional** Funding: **State**

Municipality: **N/A**

Attendees – Same all day on March 15th

	Name	Phone No.	E-mail
Division Bridge Manager	**Chris Medlin**	**(828) 298-1128**	**cdmedlin@ncdot.gov**
Division Environmental Off.	**Roger Bryan**	**(828) 251-6171 ext. 221**	**rdbryan@ncdot.gov**
Hydraulics Engineer	**Marc Shown Rusty Lassiter**	**(919) 707-6751**	**mshown@ncdot.gov**
PPU	**Pam Williams**	**(919) 707-6608**	**prwilliams@ncdot.gov**
PPU	**Eileen Fuchs**	**(919) 707-6613**	**eafuchs@ncdot.gov**
DENR-DWQ	**Kevin Barnett**	**(828) 296-4657**	**Kevin. Barnett@ncdenr.gov**
Division Utility	**Robert Briggs**	**(828) 251-6171 ext. 224**	**rbriggs@ncdot.gov**

Gersheon Carver & Steve Gosnell– L&S

Rick Tipton – DCE

Chris Guffey- RE

Paul Roberts – Asheville Bridge

Existing Features

Feature Bridge: **Bridge No. 110126 over Double Branch on SR 1115 (Dentons Chapel Road)**

Ex. Bridge Clear Deck Width: 19.17 **(Ft.)** Roadway width: **18 (Ft.)**

(Bridge / Culvert) Length: 36 **(Ft.)** Deck Width (Out To Out): 20.08 **(Ft.)**

Water Depth: 1 **(Ft.)** Height Bed-To-Crown: 10 **(Ft.)**

Year Built: 1960 Posted: SV: 18 TTST: 27

Superstructure: **Timber Floor on I-Beams (Std. BMD-8)** Abutment: Timber caps, posts & sills @ various centers Pier Type:1@ **35' – 6"**

Temp. Shored

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

PRI: 60.50 **DP**: 6 **SR: 18.77** School Bus crossings per day: **3 buses (6 trips)**

Posted Speed Limit Vicinity:

Posted Speed: 45 (mph)

Detour Off-Site [X] **Stage Construction** [ ] **New Alignment** [ ] **On-site** [ ]

If Off-Site, Description Of Detour Route: **SR 1116 - SR 1102 - US 64- SR 1115**

Approximate Length Of Detour? **4.6 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**

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

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

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

Overhead Utility Lines	In Conflict - **probably not**
Power Transmission Lines	In Conflict
Telephone	In Conflict - **Yes**
Cable Lines	In Conflict
Fiber Optic	In Conflict
Water	In Conflict - **WEST side**
Sewer	In Conflict
Natural Gas	In Conflict
Other	In Conflict

Is There Any Future Utility Construction Anticipated In The Project Area: **No, per R. Briggs; recently replaced crutchbent due to bad shape of steel waterline**

Is A FEMA Buy-Out Property Being Impacted **No**

Environmental

Wetlands At Site: **No** Comments:

Endangered Species In County: bald eagle, Bog turtle, Dwarf-flowered heartleaf (MANLAA),

Heller's blazing star, Mountain golden heather, small whorled pagonia, Spreading avens, White irisett, Rock gnome lichen, Northern Long-Eared Bat

T&E species effect: No effect

Trout County: **Yes, but not trout stream** TVA County: **No**

CAMA County: **No** Primary Nursery Area: **No**

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

Permits discussion: Final design, tree clearing & percussive activities information will be provided in the permit application.

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:

Known Or Potential Historic Properties In The Area:
Architecture: NHP **Archaeology: No Survey Required**

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: **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 **--------** 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? **std**

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

Appreciable Amount Of Large Debris? **No**

Placement Of Bents In The Water Be Allowed: **N/A** Where:

Superstructure Type: If girder; why?

Bridge: **1@ 60**

Length Of Structure: **60'** Min. Number Of Spans: 1 Span Arrangement:

Waive offset: No Cap: **4'** Skewed: **slightly**

Items To Be Discussed / Resolved At FSM By Attendees

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

Clear roadway width (CRW):
Temp. Signals:
Alignment: N, E, W, S

Alignment; N, E, W, S

CRW:
one lane w/ signals;
or two lanes CRW;
Alignment;

Environmental Document Prepared by DEO: Minimum Criteria Checklist ☒

ADT: **350 per BIR** NHS: 0 Tier: Sub-regional Func. Class: Local Rural

Bridge Min. Clear Deck Width Recommended by Div.: **30'**

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: **3** inches: Existing Roadway: 18'

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

Will Railroad Involvement Be Required: **No** Method of Clearing: **II Mod**

Truck Percentage: **6 % per BIR** Reasonable Safe Speed per SIR: 45 **mph**

Liquidated damages: will be imposed after **120** days of closure/construction. Amt: **$ 500** per day

CEI by? **NCDOT** R/W by? **DBT** R/W monuments? **Conc.**

Salvageable materials: **Crutchbent Only**

Contact Person/number: **Daniel Dowdle (dadowdle@ncdot.gov) (828) 652-2939**

Deliver to: **McDowell County Bridge Maintenance Yard located at:**

3852 HWY 226S, Marion, NC 28752; DOT will offload upon delivery by Contractor

Removal of previous structure remnant abutments/piers: **None**

Sequencing priority in construction? **1st priority to be constructed due to low postings**

Comments: **Provide Type III Guardrail anchor unit and then shop curve guardrail in northwest quadrant**