NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

FIELD SCOPING MEETING WORKSHEET

Design Build Process

WBS No.: **48078.1.1 (B-5885)** Field Scoping Meeting Date: **March 16, 2016**

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

Route (US/NC/SR): **SR 1560** County: **McDowell**

Project Description: **Bridge No. 580108 over North Fork Catawba River on SR 1560 (Old Linville Road)**

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

Municipality: **N/A**

Attendees- Same on March 16th

	Name	Phone No.	E-mail
Division Bridge Manager	**Chris Medlin**	**(828) 298-1128**	**cdmedlin@ncdot.gov**
Division Environmental Off.	**Yates Allen**	**(828) 251-6171**	**yallen@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**
USFWS	**Andrew Henderson**	**(828) 258-3939 ext. 227**	**andrew_henderson@fws.gov**
Division Utility	**Robert Briggs**	**(828) 251-6171 ext. 224**	**rbriggs@ncdot.gov**

Gersheon Carver & Steve Gosnell– L&S

Paul Roberts – Asheville Bridge

Existing Features

Feature Bridge: Bridge No. 580108 over North Fork Catawba River on SR 1560 (Old Linville Road)

Ex. Bridge Clear Deck Width: 23.75 **(Ft.)** Roadway width: **21 (Ft.)**

(Bridge / Culvert) Length: 161 **(Ft.)** Deck Width (Out To Out): 24.75 **(Ft.)**

Water Depth: 7 (**Ft.)** Height Bed-To-Crown: 23 **(Ft.)**

Year Built: 1971 Posted: SV: 99 TTST: 99

Superstructure: Prestressed Concrete Cored slab (std.bmd-19-24-90)**;** Abutment:End bents & Int. bents: PPC caps / H-piles; Int. bents encased in concrete Pier Type: **1@ 40'-3"; 2@40'; 1@ 40'-3"**

Temp. Shored:

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

PRI: **22.12** DP: **4.50** **SR: 69.24** School Bussing crossings per day: 2 buses (4 trips)

Posted Speed Limit Vicinity:

Posted Speed: 55mph (Stat)

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

If Off-Site, Description Of Detour Route: **SR 1559- US 221 – SR 1566 – SR 1560**

Approximate Length Of Detour? **5.3 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**

Are There EMS Or Business Access Issues? **No issue with EMS, Jeff Benfield Nursery**

Are There Any Railroad Crossings On Detour? **Yes**

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

Overhead Utility Lines	In Conflict - **yes**
Power Transmission Lines	In Conflict
Telephone	In Conflict
Cable Lines	In Conflict
Fiber Optic	In Conflict
Water	In Conflict
Sewer	In Conflict- **runs under creek downstream; encased concrete**
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: Bald Eagle, Bog Turtle, Carolina northern flying squirrel, Mountain golden heather, Small whorled pogonia, Gray Bat, Northern Long-Eared Bat, Rusty-Patched Bumble Bee

T&E species effect: No effects

Trout County : **Yes** TVA County: **No**

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

Moratoria: **No per NRTR 10/2016** Which species: Duration :

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

Water Quality Classification: **Class B; Trout** 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:
Architecture: No Survey Required **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: **Benfield Nursery upstream left**

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? **Yes; Detailed** (MOA) State Stormwater Permit? **No**

Is There Unusual Scour Potential? **No** Is Protection Needed?

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

Appreciable Amount Of Large Debris? **Yes**

Placement Of Bents In The Water Be Allowed: **Yes** Where:

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

Length Of Structure: **170'** Min. Number Of Spans: 3 Span Arrangement: 1@30' ; 2@70'

Waive offset: **no on left; but yes on right** Cap: **4' left & right possible** Skewed: **90**

Vertical abutment right side looking downstream

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 (upstream)

Alignment; N, E, W, S

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

Environmental Document Prepared by DEO: Minimum Criteria Checklist ☒

ADT: **310 per BIR** NHS: 0 Tier: Sub-regional Func. Class: Local

Bridge Min. Clear Deck Width Recommended by Div.: **36' OTO (due to proximity to intersection & TTSTs)**

Roadway lane width _**10**_ ' with _**6**_ ' shoulders including _**4**__ paved shoulders

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

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

Min. Pavement Surface Course: **3"** inches: Existing Roadway: 21'

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: 25 **mph**

Liquidated damages: will be imposed after **_180_** days of closure/construction. Amt: **$** _**500**__ per day

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

Salvageable materials: Posts & Guardrail

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

Deliver to: **Contractor to deliver to McDowell County Bridge Maintenance Yard located at: 3852 HWY 226S, Marion, NC 28752; DOT will offload**

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

Sequencing priority in construction? **None**

Comments: **avoid impacts to RR Xing; Resurface up to RR Xing but not over; resurface 100'**

each side along SR 1559 at intersection with SR 1560; resurface to the furthest radii on SR 1561;

Coordinate with CSX railroad to notify replacement of bridge and resurfacing upto but not over the railroad.

Replace 18” CMP on SR 1559 within construction limits