

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

WBS No.: **DF15006.2024026**

Field Scoping Meeting Date: **February 27, 2017**

Division: **6**

Location: **On-site**

Route (US/NC/SR): **SR 1516**

County: **Columbus**

Project Description: **Emergency Replacement of Bridge 188 over Brier Creek**

Tier: **Subregional**

Funding: **FEMA**

Municipality: **No**

**Attendees**

	<b>Name</b>	<b>Phone No.</b>	<b>E-mail</b>
Division Bridge Program Manager	<b>Christy Huff</b>	<b>910-486-1493</b>	<b>chuff@ncdot.gov</b>
Division Environmental Off.	<b>Jim Rerko</b>	<b>910-437-0207</b>	<b>jjrerko@ncdot.gov</b>
Division Maint. Engineer	<b>Ken Murphy, Jr.</b>	<b>910-486-1493</b>	<b>rkmurphy@ncdot.gov</b>
Hydraulics Engineer	<b>Jon Moore</b>	<b>919-707-6738</b>	<b>Jlmoore6@ncdot.gov</b>
Division	<b>Rusty Marsh</b>	<b>910-642-2489</b>	<b>Rmarsh@ncdot.gov</b>
PPU	<b>Pam Williams</b>	<b>919-707-6608</b>	<b>prwilliams@ncdot.gov</b>
Columbus Co. Maint. Eng.	<b>Barry Gelezinsky</b>	<b>910-642-7597</b>	<b>bwgelezinsky@ncdot.gov</b>
Div. Const. Engineer	<b>Randy Wise</b>	<b>910-486-1493</b>	<b>rwise@ncdot.gov</b>
Geotech	<b>Dean Argenbright</b>	<b>252-355-9054</b>	<b>dargenbright@ncdot.gov</b>
Geotech	<b>Galen Cail</b>	<b>919-707-6711</b>	<b>gcail@ncdot.gov</b>
Division 6	<b>Joe Bailey</b>	<b>910-486-1493</b>	<b>Jwbailey1@ncdot.gov</b>
Division 6 Bridge	<b>Gary Hilburn</b>	<b>910-642-4388</b>	<b>gdhilburn@ncdot.gov</b>
Division 6	<b>Drew Cox</b>	<b>910-642-3760</b>	<b>hlcox@ncdot.gov</b>
Division 6	<b>Blythe Jordan</b>	<b>910-642-3760</b>	<b>bljordan@ncdot.gov</b>

**Existing Features**

Feature Bridged: **230188 over Brier on SR 1516 (Paul Willoughby Road)**

Ex. Bridge Clear Deck Width: **25.5 (Ft.)**

Roadway width: **24 (Ft.)**

(Bridge / Culvert) Length: **36 (Ft.)**

Deck Width (Out To Out): **27.3(Ft.)**

Water Depth: **1 (Ft.)**

Height Bed-To-Crown: **8 (Ft.)**

Year Built: **1956**

Posted: **SV- 23  
Tons; TTST-38 Tons**

Superstructure: **RC Floor Timber  
Joists**

Sub Structure: Timber Caps  
and Piles

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

PRI: **27.8 DP: 4.5 SR: 64.94**

School Bussing crossings per day:

Posted Speed Limit Vicinity: **55** (mph) (statutory)

Detour Off-Site

Stage Construction

New Alignment

On-site

If Off-Site, Description Of Detour Route: **SR 1506 to NC 242 to SR 1002**

Approximate Length Of Detour? **6.7 miles**

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

Div. Traffic Eng. Recommend Off-site detour signing? **N/A**

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? **N/A**

Are There EMS Or Business Access Issues?

Are There Any Railroad Crossings On Detour? **N/A**

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

Overhead Utility Lines ~~In Conflict~~

Power Transmission Lines ~~In Conflict~~

Telephone ~~In Conflict~~

Cable Lines ~~In Conflict~~

Fiber Optic ~~In Conflict~~

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 Adjustment? **N/A Months**

Is There Any Future Utility Construction Anticipated In The Project Area **None**

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

## Environmental

Wetlands At Site **No**

Comments:

Endangered Species In County: **American alligator, Red-cockaded woodpecker, Bald eagle, Waccamaw silverside, Wood stork, Cooley's meadowrue, Rough-leaved loosestrife**

T&E species effect: To be Determined by NES

Trout County : **No**

TVA County: **No**

CAMA County; **No**

Primary Nursery Area: **No**

Moratoria: **No**

Which species:

Duration :

Permits discussion: NW 3

Water Quality Classification: **C; SW (14-22-17)**

303d: **No**

Coast Guard Permit?No

Drainage Basin: Lumber

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:

**Architecture: No Survey Required**

**Archaeology: 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 **No**

Are There Any Known Landfills And / Or Geo-environmental Hazard Sites At Or Within Close Proximity To The Project Site **No**

Are Any Impacts Anticipated To Natural Springs Or Artesian Wells: **No**

Possible Foundation Type: **Steel Piles**

## Hydraulics

FEMA Approval? **Yes – Limited (MOA )**

State Stormwater Permit? **No**

Is There Unusual Scour Potential? **No**

Is Protection Needed? **Standard protection**

Are Banks Stable? **Yes**

Is Protection Needed? **Standard protection**

Appreciable Amount Of Large Debris? **No**

Placement Of Bents In The Water Be Allowed: **N/A** Where:  
Superstructure Type: **Bridge** If Bridge: **CS** If girder; why?  
Length Of Structure: **70'** Min. Number Of Spans: **1** Span Arrangement: **1@70'**  
Waive offset: **Yes, both sides** Cap: **4' Cap** Skewed: 90°

Possibly raise grade 1'6" to 2'. Re-establish stream channel under bridge using Class II rip rap to form banks  
Proposed stream base width should match existing channel width outside of the washed out area. Use fill  
material in washout area to re-establish floodplain bench. Match upstream and downstream  
Floodplain elevation.

### 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 Checklist

ADT: **330 per BIR** NHS: **No** Tier: **Sub-Regional** Func. Class: **Local**

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

Roadway lane width **10'** with **3'** 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: **19 (Ft)**

Pavement Marking: **Paint** Pavement markers: **Raised**

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

Truck Percentage: **6 % per BIR** Reasonable Safe Speed per BIR: **55 mph**

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

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

Salvageable materials: sheet piles

Contact Person/number: Gary Hilburn – 910-642-4388

Deliver to: Columbus Co. Bridge Maint. 31 Airport Road, Whiteville, NC 28472

Removal of previous structure remnant abutments/piers: **Yes, everything under bridge.**

Sequencing priority in construction? **N/A**

Construction completion by end of August 2017. Provide min. of 50' new pavement from ends of bridge.  
Shop curve guardrail for driveway in NE quadrant but the bridge anchor unit cannot be shop curved. . No  
vertical curves on bridge. Demolition may start as soon as date of availability. Incorporate sand located in  
northeast and northwest quadrants in fill as shown on sketch.

