

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

TIP No.: **B-4537**      WBS No.: **33753.1.2**      Field Scoping Meeting Date: **Feb. 17, 2016**  
Division: **4**      Location: **On-site**  
Route (US/NC/SR): **SR 1002**      County: **HALIFAX**  
Project Description: **Bridge No. 127 over Breeches Swamp on SR 1002 (Ringwood Rd)**  
Tier: **SUB-REGIONAL**      Funding: **HFB**  
Municipality:

**Attendees**

	<b>Name</b>	<b>Phone No.</b>	<b>E-mail</b>
Division Bridge Program Manager	<b>Wade Harper</b>	<b>252-237-6164</b>	<a href="mailto:waharper@ncdot.gov">waharper@ncdot.gov</a>
Division Environmental Officer	<b>Chad Coggins</b>	<b>252-237-6164</b>	<a href="mailto:ccoggins@ncdot.gov">ccoggins@ncdot.gov</a>
Division Construction Engineer	<b>Wendi Johnson</b>	<b>252-237-6164</b>	<a href="mailto:wojohnson@ncdot.gov">wojohnson@ncdot.gov</a>
Division Bridge Maint. Engineer	<b>Randy Davis</b>	<b>252-296-3552</b>	<a href="mailto:radavis@ncdot.gov">radavis@ncdot.gov</a>
PPU	<b>Pam Williams</b>	<b>919-707-6608</b>	<a href="mailto:prwilliams@ncdot.gov">prwilliams@ncdot.gov</a>
PPU	<b>Jamie Lancaster</b>	<b>919-707-6620</b>	<a href="mailto:jlancaster@ncdot.gov">jlancaster@ncdot.gov</a>
Hydraulics Engineer	<b>Jerry Lindsey</b>	<b>919-707-6734</b>	<a href="mailto:jlindsey@ncdot.gov">jlindsey@ncdot.gov</a>
Hydraulics Engineer	<b>Andy Jordan</b>	<b>919-707-6729</b>	<a href="mailto:pajordan@ncdot.gov">pajordan@ncdot.gov</a>
USACE	<b>Tom Steffens</b>	<b>910-251-4615</b>	<a href="mailto:Thomas.A.Steffens@usace.army.mil">Thomas.A.Steffens@usace.army.mil</a>
NCDEQ-DWR	<b>Rob Ridings</b>	<b>919-707-8786</b>	<a href="mailto:Rob.ridings@ncdenr.gov">Rob.ridings@ncdenr.gov</a>
NCWRC	<b>Travis Wilson</b>	<b>919-707-0370</b>	<a href="mailto:travis.wilson@ncwildlife.org">travis.wilson@ncwildlife.org</a>
USFWS	<b>Gary Jordan</b>	<b>919-856-4520</b>	<a href="mailto:Gary_jordan@fws.gov">Gary_jordan@fws.gov</a>
Locations and Surveys	<b>Derek Bradner</b>	<b>336-334-5085</b>	<a href="mailto:jbradner@ncdot.gov">jbradner@ncdot.gov</a>
NES- BSG	<b>Jared Gray</b>	<b>919-707-6120</b>	<a href="mailto:jgray@ncdot.gov">jgray@ncdot.gov</a>

## Existing Features

Feature Bridged: **410127 over Breeches Swamp on SR 1002 (Ringwood Rd)**

Ex. Bridge Clear Deck Width: **30.08 (Ft.)**

Roadway width: **29.25 (Ft.)**

(Bridge / Culvert) Length: **51 (Ft.)**

Deck Width (Out To Out): **30.67 (Ft.)**

Water Depth: **6 (Ft.)**

Height Bed-To-Crown: **12 (Ft.)**

Year Built: **1967**

Posted: **SV 25**

TTST: **29**

Superstructure: **PPC CHANNELS**

Abutment: **PPC CAPS/TIMBER PILES @ 5'9 CTS.**

Pier Type: **PPC CAPS/TIMBER PILES @ 5'9 CTS.**

Temp. Shored: **No**

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

PRI: **58.09**

DP: **10.29**

SR: **31.30**

School Bussing crossings per day:

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

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

If Off-Site, Description Of Detour Route:

SR 1222 to NC 481 to SR 1216

Approximate Length Of Detour?

**7.4 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? **Widening couple feet on each side**

Are Bridges On Detour Currently Programmed?

**No**

Are There EMS Or Business Access Issues?

**Farmers**

Are There Any Railroad Crossings On Detour?

**No**

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

Overhead Utility Lines

In Conflict **upstream**

Power Transmission Lines

~~In Conflict~~

Telephone

In Conflict **upstream**

Cable Lines

~~In Conflict~~

Fiber Optic

In Conflict **upstream**

Water

In Conflict **potential 8" on downstream side**

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: yes                      Comments:

Endangered Species In County: **Red-cockaded woodpecker; Dwarf wedgemussel; Tar River spinymussel**

T&E species effect: **No effect**

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

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

Moratoria: No                      Which species:                      Duration:

Permits discussion:

Water Quality Classification: **C; Sw, NSW**                      303d:                      **No**

Coast Guard Permit? **No**                      Drainage Basin: **Tar-Pamlico**                      Riparian Buffer Rules: **Yes**

Is The Project Site In Or Near Any Of The Following:

- |                               |           |                                 |            |
|-------------------------------|-----------|---------------------------------|------------|
| National Forest:              |           | Wildlife Refuge:                | <b>No</b>  |
| State, County, Or Local Park: | <b>No</b> | Wild And Scenic River:          | <b>No</b>  |
| Airport:                      | <b>No</b> | Recreation or Power Generation: | <b>No</b>  |
| Water Supply Reservoir:       | <b>No</b> | Nutrient Sensitive Waters:      | <b>Yes</b> |
| Public Use Boat Ramp:         | <b>No</b> | Cemeteries:                     | <b>No</b>  |
| VAD/Farmland Protection:      | <b>No</b> | Game Lands:                     | <b>No</b>  |

Known Or Potential Historic Properties In The Area: **No**

**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: **Yes**

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 Bents:

## Hydraulics

FEMA Approval? **Yes, limited detail** State Stormwater Permit? **No**  
(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: **No** Where:  
Structure Type: **Bridge** If Bridge: **CS** If girder; why?  
Length Of Structure: **70** Min. Number Of Spans: **1** Span Arrangement: **N/A**  
Waive offset: **Yes** EB Cap: **2'-6"** Skewed: **90 degrees**

**Raise grade about 1',**

## Items To Be Discussed / Resolved At FSM By Attendees

Off-Site  Stage Construction  New Alignment  On-site   
Clear roadway width: Clear roadway width:  
Temp. Signals: 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 DBE:  
Low Impact Data Spreadsheet  Minimum Criteria Checklist   
ADT: **1100 per SIR** NHS: **No** Tier: **SUB-REGIONAL** Func. Class: **Major Collector**  
Bridge Min. Clear Deck Width Recommended by Div.: **33' OTO**  
Roadway lane width: **12**' with **6**' shoulders with **4**' pave shoulders  
Extension of Paved shoulders: **end of guardrail**  
Pave to face of guardrail and taper 8:1 to travel lane/paved shoulder? **yes**  
Min. Pavement Surface Course: **3"** Existing Roadway: **20**  
Pavement Marking: **Paint** Pavement Markers: **None**  
Will Railroad Involvement Be Required: **No** Method of Clearing: **II Modified**  
Truck Percentage: **7 % per BIR** Reasonable Safe Speed per SIR: **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 and caps**  
Salvageable materials: **None**  
Contact Person/number:  
Deliver to:  
Removal of previous structure remnant abutments/piers: **Don't remove abutments**  
Sequencing priority in construction?  
Comments: **min. 55 mph approach speed.**