

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

TIP No.: **B-5672** WBS No.: **45627.1.1** Field Scoping Meeting Date: **March 21, 2016**
Division: **4** Location: **On-site**
Route (US/NC/SR): **SR 1310** County: **HALIFAX**
Project Description: **Bridge No. 134 over Bear Swamp on SR 1310 (Airlie Rd)**
Tier: **SUB-REGIONAL** Funding: **HFB**
Municipality: **No**

Attendees

	Name	Phone No.	E-mail
Division Bridge Program Manager	Wade Harper	252-237-6164	waharper@ncdot.gov
Division Environmental Officer	Chad Coggins	252-237-6164	ccoggins@ncdot.gov
Resident Engineer	Bobby Liverman	252-459-2129	bliverman@ncdot.gov
Division Bridge Maint. Engineer	Randy Davis	252-296-3552	radavis@ncdot.gov
PPU	Pam Williams	919-707-6608	prwilliams@ncdot.gov
PPU	Jamie Lancaster	919-707-6620	jlancaster@ncdot.gov
Hydraulics Engineer	Jerry Lindsey	919-707-6734	jlindsey@ncdot.gov
Hydraulics Engineer	Andy Jordan	919-707-6729	pajordan@ncdot.gov
USACE	Tom Steffens	910-251-4615	Thomas.A.Steffens@usace.army.mil
NCDEQ-DWR	Rob Ridings (did not attend)	919-707-8786	Rob.ridings@ncdenr.gov
NCWRC	Travis Wilson	919-707-0370	travis.wilson@ncwildlife.org
USFWS	Gary Jordan	919-856-4520	Gary_jordan@fws.gov
Locations and Surveys	Brent Bass	252-234-1118	Bwbass@ncdot.gov
Location and Surveys	Paul Woodard	252-234-1118	pwoodard@ncdot.gov
District Engineer	Ronnie Keeter	252-583-4230	rkeeter@ncdot.gov

Existing Features

Feature Bridged: **410134 over Bear Swamp on SR 1310 (Airlie Rd)**

Ex. Bridge Clear Deck Width: **21.5 (Ft.)**

Roadway width: **21.083 (Ft.)**

(Bridge / Culvert) Length: **91 (Ft.)**

Deck Width (Out To Out): **22.17 (Ft.)**

Water Depth: **7 (Ft.)**

Height Bed-To-Crown: **14 (Ft.)**

Year Built: **1952**

Posted: **SV 20**

TTST: **29**

Superstructure: **TIMBER
FLOOR ON TIMBER JOIST&I-
BEAMS**

Abutment: **TIMBER
CAP/TIMBER PILES @
VAR.CTS.**

Pier Type: **TIMBER
CAP/TIMBER PILES @
VAR.CTS.**

Temp. Shored: **No**

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

PRI: **27.6**

DP: **2.5**

SR: **52.19**

School Bussing crossings per day: **4 buses/8 trips**

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

Detour

Off-Site ☒

Stage Construction ☐

New Alignment ☐

On-site ☐

If Off-Site, Description Of Detour Route:

SR 1300 to NC48

Approximate Length Of Detour?

5.4 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? **No**

Are Bridges On Detour Currently Programmed?

No

Are There EMS Or Business Access Issues?

No

Are There Any Railroad Crossings On Detour?

No

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

Is There Any Future Utility Construction Anticipated In The Project Area:

No

Is A FEMA Buy-Out Property Being Impacted:

No

Structure No: 410134

Environmental

Wetlands At Site: **Yes** Comments:

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

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

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

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

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

Permits discussion:

Water Quality Classification: **C; 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: **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: **Yes**

Public Use Boat Ramp: **No** Cemeteries: **No**

VAD/Farmland Protection: Game Lands: **No**

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: **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 Bents:

Hydraulics

FEMA Approval? **Yes** (MOA) State Stormwater Permit? **No**
Is There Unusual Scour Potential? **No** Is Protection Needed? **Normal End Bent Protection**
Are Banks Stable? **Yes** Is Protection Needed? **Normal End Bent Protection**
Appreciable Amount Of Large Debris? **No**
Placement Of Bents In The Water Be Allowed: **Yes** Where: **Not in center 1/3 of channel**
Structure Type: **Bridge** If Bridge: **CS** If girder; why?
Length Of Structure: **125'** Min. Number Of Spans: **3** Span Arrangement: **40' – 60' – 25'**
Waive offset: **No** EB Cap: **2'-6"** Skewed: **90**

Items To Be Discussed / Resolved At FSM By Attendees

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

Environmental Document Prepared by DBE:

Low Impact Data Spreadsheet ☒

Minimum Criteria Checklist ☐

ADT: **630 per SIR** NHS: **No** Tier: **SUB-REGIONAL** Func. Class: **Local**

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

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"**

Existing Roadway: **19'**

Pavement Marking: **Paint**

Pavement Markers: **None**

Will Railroad Involvement Be Required: **No**

Method of Clearing: **II Modified**

Truck Percentage: **6 % per BIR**

Reasonable Safe Speed per SIR: **55 mph**

Liquidated damages: will be imposed after 150 days of closure/construction. Amt: \$ 600 per day

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

Salvageable materials: **H-piles**

Contact Person/number: Spurgeon Ricks – **252-583-4260**

Deliver to: **Halifax Bridge Maint. Yard – 14065 Hwy. 903, Halifax, NC 27839 - DBT to deliver, NCDOT to unload**

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

Sequencing priority in construction? **None**

Comments: **No vertical curve on bridge. Stripe to match existing lane widths.**