

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

TIP No.: **B-5657** WBS No.: **45612.1.1** Field Scoping Meeting Date: **Feb. 17, 2016**
Division: **4** Location: **On-site**
Route (US/NC/SR): **SR 1001** County: **HALIFAX**
Project Description: **Bridge No.15 over Beaverdam Swamp on SR 1001** (Justice Branch Rd)
Tier: **SUB-REGIONAL** Funding: **STI**
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
Asst. Resident Engineer	Rob Pate	252-459-2129	repate@ncdot.gov
District Engineer	Ronnie Keeter	252-583-4230	rkeeter@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 (did not attend)	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 (did not attend)	919-707-0370	travis.wilson@ncwildlife.org
USFWS	Gary Jordan (did not attend)	919-856-4520	Gary_jordan@fws.gov
Locations and Surveys	Derek Bradner	336-334-5085	jbradner@ncdot.gov
NES- BSG	Jared Gray	919-707-6120	jgray@ncdot.gov
Locations and Surveys	G. Paul Woodard	252-234-1118	pwoodard@ncdot.gov
Asst. District Engineer	Franz Enders	252-583-4230	fenders@ncdot.gov
Asst. District Engineer	Kristin Barnes	252-583-4230	kwbarnes@ncdot.gov
NES-Biological Surveys	Tim Bassette	919-707-6104	tpbassette@ncdot.gov

Existing Features

Feature Bridged: **410015 over Beaverdam Swamp on SR 1001 (Justice Branch Rd)**

Ex. Bridge Clear Deck Width: **23.5 (Ft.)**

Roadway width: **23.08 (Ft.)**

(Bridge / Culvert) Length: **52 (Ft.)**

Deck Width (Out To Out): **24.08 (Ft.)**

Water Depth: **4 (Ft.)**

Height Bed-To-Crown: **9 (Ft.)**

Year Built: **1952**

Posted: **SV 19**

TTST: **27**

Superstructure: **TIMBER
DECK/TIMBER JOIST**

Abutment: **TIMBER
CAPS/TIMBER PILES**

Pier Type: **:TIMBER
CAPS/TIMBER PILES**

Temp. Shored: **No**

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

PRI: **28.89**

DP: **2.5**

SR: **54.98**

School Bussing crossings per day: **2 buses/ 4 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 1204 to NC561 to SR 1206

Approximate Length Of Detour?

9 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? **Yes, widening.
No set time for widening.**

Are Bridges On Detour Currently Programmed?

No

Are There EMS Or Business Access Issues?

Farming

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 - Possible

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 spiny mussel**

T&E species effect: **No effect on 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; 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: **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: **No** 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: **Yes**

Comments: **Halifax CTP recommends 4 foot paved shoulder for bikes**

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**
(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? **Low**

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

Where: **Best Location – No restrictions**

Structure Type: **Bridge**

If Bridge: **CS**

If girder; why?

Length Of Structure: **70'**

Min. Number Of Spans: **2**

Span Arrangement: **2@35**

Waive offset: **Yes**

EB Cap: **2'-6"**

Skewed: **90**

Model with 4100014. May need to raise grade approximately 1'. Cut bents off at floodplain elevation

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: **490 per SIR**

NHS: **No**

Tier: **SUB-REGIONAL**

Func. Class: **Minor Collector**

Bridge Min. Clear Deck Width Recommended by Div.: **33' OTO**

Roadway lane width: **12'** with **6'** shoulders, including **4' paved shoulders**

Extension of Paved shoulders: End of construction limits with 8:1 taper

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: **6 % per BIR**

Reasonable Safe Speed per SIR: **50 mph**

Liquidated damages: will be imposed after **180** days of closure/construction for both bridges

Amt: **\$ 500** per day for both bridges

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: **None visible**

Sequencing priority in construction? **Construct 14 and 15 concurrently**

Comments: **Provide 55 mph vertical curve on approach. Stripe to match existing lane widths. Pave between bridges 14 and 15.**