

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

TIP No.: **B-5664** WBS No.: **45619.1.1** Field Scoping Meeting Date: **March 21, 2016**
Division: **4** Location: **On-site**
Route (US/NC/SR): **SR 1555** County: **JOHNSTON**
Project Description: **Bridge No. 0145 over Swift Creek on SR 1555 (Barber Mill 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 (did not attend)	919-707-0370	travis.wilson@ncwildlife.org
USFWS	Gary Jordan	919-856-4520	Gary_jordan@fws.gov

Existing Features

Feature Bridged: **500145 over Swift Creek on SR 1555 (Barber Mill Rd)**

Ex. Bridge Clear Deck Width: **21.75 (Ft.)**

Roadway width: **21.75 (Ft.)**

(Bridge / Culvert) Length: **163 (Ft.)**

Deck Width (Out To Out): **23.417 (Ft.)**

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

Height Bed-To-Crown: **17 (Ft.)**

Year Built: **1955**

Posted: **SV 19**

TTST: **25**

Superstructure: **RC FLOOR/I-
BEAMS**

Abutment: **EBTS&IBT1:RC
CAP/TIM.PILES;IBTS2-
4:RCP&BEAM**

Pier Type: **EBTS&IBT1:RC
CAP/TIM.PILES;IBTS2-
4:RCP&BEAM**

Temp. Shored: **No**

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

PRI: **66.325** DP: **14.5** SR: **6**

School Bussing crossings per day: **18 buses/49
trips**

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

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

If Off-Site, Description Of Detour Route: **N/A**

Approximate Length Of Detour? **N/A**

Improvements Needed To Road(s) On Detour? **N/A**

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

Improvements Needed To Bridges On Detour? **N/A**

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: 500145

Environmental

Wetlands At Site: No

Comments:

Endangered Species In County: **Red cockaded woodpecker, Dwarf Wedgemussel, Tar River spinymussel, Michaux's sumac**

T&E species effect: **Unresolved for mussels. No effect for woodpecker and sumac**

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: **Neuse**

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: **No**

Comments: **Formal Section 7 consultation has been initiated with USFWS for mussels.**

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-Redelineated(MOA)** State Stormwater Permit? **No**
Is There Unusual Scour Potential? **Outside of bend** Is Protection Needed? **No**
Are Banks Stable? **Yes** Is Protection Needed? **No**
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: **140'** Min. Number Of Spans: **3** Span Arrangement: **40', 70', 30'**
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 ☐

Alignment: East

Environmental Document Prepared by DBE:

Low Impact Data Spreadsheet ☐

Minimum Criteria Checklist ☒

ADT: **15,300 per forecast**

NHS: **No**

Tier: **SUB-REGIONAL**

Func. Class: **Minor Collector**

Bridge Min. Clear Deck Width Recommended by Div.: **48' OTO**

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

Extension of Paved shoulders: **end of construction and taper 8:1 to travel lane**

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

Min. Pavement Surface Course: **3"**

Existing Roadway: **23'**

Pavement Marking: **Paint**

Pavement Markers: **None**

Will Railroad Involvement Be Required: **No**

Method of Clearing: **II Modified**

Truck Percentage: **4 % (3% Duals, 1% TTST)**

Reasonable Safe Speed per SIR: **35 mph**

Liquidated damages: will be imposed after **195** days of closure/construction. Amt: \$ **750** per day

CEI by? **NCDOT**

R/W by? **DBT**

R/W monuments? **Concrete**

Salvageable materials: **None**

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

Sequencing priority in construction?

Comments: **Replace on new alignment using a 50 mph design speed with a 4% superelevation. Carry turn-lane across bridge and taper. Concrete deck on bridge. On SR 1556, provide 12' lanes with 6' shoulders, including 4' paved shoulders to the end of the construction limits.**