

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

TIP No.: **B-5654** WBS No.: **45609.1.1** Field Scoping Meeting Date: **March 21, 2016**
Division: **4** Location: **On-site**
Route (US/NC/SR): **SR 1550** County: **JOHNSTON**
Project Description: **Bridge No. 0141 over White Oak Creek on SR 1550 (Winston Rd)**
Tier: **SUB-REGIONAL** Funding: **STI**
Municipality: **Clayton ETJ**

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
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 (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	919-856-4520	Gary_jordan@fws.gov

Existing Features

Feature Bridged: **500141 over White Oak Creek on SR 1550 (Winston Rd)**

Ex. Bridge Clear Deck Width: **23.167 (Ft.)**

Roadway width: **23.167 (Ft.)**

(Bridge / Culvert) Length: **53 (Ft.)**

Deck Width (Out To Out): **25.33 (Ft.)**

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

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

Year Built: **1955**

Posted: **SV 17**

TTST: **26**

Superstructure: **REINFORCED
CONCRETE FLOOR ON
TIMBER JOIST STD.BMD-10**

Abutment:
**TIM.CAPS/TIM.PILES-CRUTCH
BT@EBT1**

Pier Type:
**TIM.CAPS/TIM.PILES-CRUTCH
BT@EBT1**

Temp. Shored: **Yes**

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

PRI: **45.85**

DP: **5.97**

SR: **42.97**

School Bussing crossings per day: **6
buses/18trips**

Posted Speed Limit Vicinity: **45 (mph)**

Detour

Off-Site ☒

Stage Construction ☐

New Alignment ☐

On-site ☐

If Off-Site, Description Of Detour Route:

SR 1525 to NC 42 to SR 1552 to SR 1551

Approximate Length Of Detour?

5.1 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 – **Yes; perm. relocation needed; no temp. relocation**

Power Transmission Lines

~~In Conflict~~

Telephone

In Conflict - **Yes**

Cable Lines

In Conflict - **Yes**

Fiber Optic

In Conflict - **Yes**

Water

In Conflict - **Yes**

Sewer

In Conflict - **Maybe**

Natural Gas

In Conflict - **Maybe**

Other

In Conflict – **Mitigation site; southwest quadrant**

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 wookpecker, Dwarf Wedgemussel, Tar River spiny mussel, Michaux's sumac**

T&E species effect: **May affect, not likely to adversely affect 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: **Yes; Johnston County CTP; Town of Clayton Comprehensive Bicycle Plan (2005)**

Comments: **White Oak Creek Mitigation Site located in SW Quadrant (owned by NCDOT). Informal 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? **No**

Is Protection Needed? **Std. End Bent Protection**

Are Banks Stable? **Yes**

Is Protection Needed? **Std. End Bent Protection**

Appreciable Amount Of Large Debris? **Moderate**

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

Where: **Center 1/3**

Structure Type: **Bridge**

If Bridge: **CS**

If girder; why?

Length Of Structure: **95'**

Min. Number Of Spans: **2**

Span Arrangement: **50 - 45**

Waive offset: **Yes**

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

Skewed: **90**

Raise grade 6" to 12"

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: **10,600 per**
forecast

NHS: **No**

Tier: **SUB-REGIONAL**

Func. Class: **Local**

Bridge Min. Clear Deck Width Recommended by Div.: 36' OTO w/ 2 bar metal rail

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

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: **22'**

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: 45 mph

Liquidated damages: will be imposed after 120 days of closure/construction. Amt: \$ 1000 per day
(due to traffic and long detour)

CEI by?

NCDOT

R/W by?

DBT

R/W monuments? **Concrete**

Salvageable materials: **None**

Contact Person/number:

Deliver to:

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

Sequencing priority in construction? **Summer construction (May to September)**

Comments: **Avoid impacts to mitigation site in SW quadrant. Stripe to match existing lane widths.**