

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

WBS No.: **17 BP.6.R.77**

Field Scoping Meeting Date: **June 27, 2016**

Division: **6**

Location: **On-site**

Route (US/NC/SR): **SR**

County: **ROBESON**

Project Description: **Replace Bridge No. 432 on SR 1157 over Back Swamp Canal in Robeson County**

Tier: **Sub-Regional**

Municipality: **No**

Attendees

	Name	Phone No.	E-mail
Division Bridge Program Manager	Brice Bell	910-486-1493	bricebell@ncdot.gov
Division Environmental Officer	Jim Rerko	910-437-0207	jjrerko@ncdot.gov
Hydraulics Engineer	Jon Moore	919-707-6738	Jlmoore6@ncdot.gov
PPU	Christy Huff	919-707-6606	chuff@ncdot.gov
PPU	Pam Williams	919-707-6608	prwilliams@ncdot.gov
Assistant District Engineer	Michael Griffin	910-728-5842	mdgriffin@ncdot.gov
Division Maintenance Engr.	Ken Murphy, Jr.	910-486-1493	rkmurphy@ncdot.gov
County Maintenance Engineer	Eugene McKethan, III	910-618-5543	emckethan@ncdot.gov
Resident Engineer	Mike Parker	910-618-5689	jmparkerjr@ncdot.gov
Division Bridge Maintenance Engineer	Darren Pittman	910-829-6345	dpittman@ncdot.gov
Bridge Maintenance Sup.	Daniel Leggett	910-618-5542	dtleggett@ncdot.gov
Division L&S	John Kaukola	910-486-1338	jkaukola@ncdot.gov
NCDENR, Water Quality	Joanne Steenhuis	910-796-7306	Joanne.steenhuise@ncdenr.gov
USACE	Liz Hair	910-251-4049	sarah.e.hair@usace.army.mil
Division Utilities Coordinator	Dan Johnson	910-437-0207	dpjohnson1@ncdot.gov

Existing Features

Feature Bridged: **770432** over **BACK SWAMP CANAL** on **SR1157 (Henry Berry Rd.)**

Ex. Bridge Clear Deck Width: **28 (Ft.)**

Roadway width: **20 (Ft.)**

(Bridge / Culvert) Length: **69 (Ft.)**

Deck Width (Out To Out): **29.278 (Ft.)**

Water Depth: **3 (Ft.)**

Height Bed-To-Crown: **11 (Ft.)**

Year Built: **6**

Posted: SV **19**

TTST: **27**

Superstructure: **Reinf. Concrete
Floor on Timber Joints**

Substructure: **End Bts & Int. Bts: timber caps
on timber piles**

Pier Type:

Temp. Shored:

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

PRI: DP: **SR: 37.52**

School Bussing crossings per day: **6**

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

Detour Off-Site ☒

Stage Construction ☐

New Alignment ☐

On-site ☐

If Off-Site, Description Of Detour Route: **US 74 ALT to SR 1003**

Approximate Length Of Detour? **No increase in mileage**

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? **B-5529 (Bridge No. 434) –to be Let 2020**

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** **Duke & Lumber**

Power Transmission Lines **In Conflict**

Telephone **In Conflict** **Bell South (AT&T)**

Cable Lines **In Conflict** **TWC**

Fiber Optic **In Conflict**

Water **In Conflict** ***8" N side;**

Sewer **In Conflict**

Natural Gas **In Conflict**

Other **In Conflict**

Based On The Past History Near This Project Site, What Is The Estimated Time Required To Complete Utility Adjustments **3 Months**

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: **American alligator, Red-cockaded woodpecker, Michaux's sumac, Bald eagle**

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: **NW3**

Water Quality Classification: **WS-IV**

303d: **No**

Coast Guard Permit? **No**

Drainage Basin: **Lumber**

Riparian Buffer Rules: **No**

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 Of Power Generation **No**

Water Supply Reservoir; **No**

Nutrient Sensitive Waters; **No**

Public Use Boat Ramp; **No**

Cemeteries ; **No**

Known Or Potential Historic Properties In The Area:

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**

Hydraulics (re-delineate, old HEC-RAS Model)

FEMA Approval? **Yes** (MOA) State Stormwater Permit? **No**
Is There Unusual Scour Potential? **No** Is Protection Needed? **Std**
Are Banks Stable? **Yes** Is Protection Needed? **Std**
Appreciable Amount Of Large Debris? **Moderate/Heavy**
Placement Of Bents In The Water Be Allowed: **Yes** Where: **Not in center 1/3 of the channel**
Superstructure Type: **Bridge** If Bridge: **CS** If girder; why?
Length Of Structure: **85** Min. Number Of Spans: **2** Span Arrangement: **55-30**
Waive offset: **Yes** Cap: **2'6"** Skewed: **90**

Items To Be Discussed / Resolved At FSM By Attendees

Off-Site Detour ☒ Stage: ☐ New Alignment: ☐ On-site detour ☐
Environmental Document Prepared by DBE: Low Impact Data Spreadsheet ☒ Minimum Criteria Checklist ☐
ADT: **500/TEAAS** NHS: **No** Tier: **Sub-Regional** Func. Class: **Local**
Bridge Min. Clear Deck Width Recommended by Div.: **33' OTO**
Roadway lane width **10'** with **3'** shoulders including **No** paved shoulders; **blunt end at end of construction limits**
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"** inches: Existing Roadway: **20**
Pavement Marking: **Paint; Match Existing Pavement Mrks** Pavement markers: **Raised**
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 **120** days of closure/construction. Amt: **\$ 500** per day
CEI by? **NCDOT** R/W by? **DBT** R/W monuments? **Pin & Cap**
Salvageable materials: **No**
Contact Person/number:
Deliver to:
Removal of previous structure remnant abutments/piers: **No**
Sequencing priority in construction? **Bridge Nos 770432 and 770433 are second priority in the contract .**
Comments:
-South End – Sheet pile embedded approximately 3 feet shall be removed
-Note: Utilize asymmetrical alignment that allows for spread at the west face
-Pave full depth 50' from each end of the new structure on All bridges.
-Maintain driveways for the maintenance of the canal.

