

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

WBS No.: **17BP.6.R.85 (B-5707)**

Field Scoping Meeting Date: **May 8, 2017**

Division: **6**

Location: **On-site**

Route (US/NC/SR): **SR 1100**

County: **Bladen**

Project Description: **Bridge No. 080013 over Crawley Swamp on SR 1100**

Tier: **Subregional – Local**

Funding: **State**

Municipality: **No**

Attendees

	Name	Phone No.	E-mail
Division Bridge Program Manager	Christy Huff	910-364-0600	chuff@ncdot.gov
Division Environmental Officer	Jim Rerko	910-364-0580	jjrerko@ncdot.gov
Resident Engineer	Mike Parker	910-618-5689	jmparkerjr@ncdot.gov
Div. 6 Locating Engineer	John Kaukola	910-486-1338	jkaukola@ncdot.gov
Div. 6 Bridge Engineer	Darren Pittman	910-364-0670	dpittman@ncdot.gov
Div. 6 Dist. 1 Engineer	Drew Cox	910-642-3760	hlcox@ncdot.gov
Hydraulics Engineer	Jon Moore	919-707-6738	Jlmoore6@ncdot.gov
DENR-DWR	Joanne Steenhuis	910-796-7306	Joanne.steenhuis@ncdenr.gov
USACE	Liz Hair	910-251-4049	sarah.e.hair@usace.army.mil
PPU	Jamie Lancaster	919-707-6620	jlancaster@ncdot.gov
PPU	Pam Williams	919-707-6608	prwilliams@ncdot.gov

Existing Features

Feature Bridged: **080013 over Crawley Swamp on SR 1100**

Ex. Bridge Clear Deck Width: **25.5 (Ft.)**

Roadway width: **24 (Ft.)**

(Bridge / Culvert) Length: **87 (Ft.)**

Deck Width (Out To Out): **25.37 (Ft.)**

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

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

Year Built: **1951**

Posted: SV **19 tons**

TTST: **28 tons**

Superstructure: **rc floor on
timber joists**

Abutment: **Timber caps on
timber piles**

Pier Type:

Temp. Shored: **No**

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

PRI: **42.37**

DP: **5**

SR: **38.62**

School Bussing crossings per day: **DBPM**

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

Detour

Off-Site ☒

Stage Construction ☐

New Alignment ☐

On-site ☐

If Off-Site, Description Of Detour Route: **SR 1101 to SR 1102 to NC 41 to NC 131**

Approximate Length Of Detour?

6.2 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?

DBPM to follow up

Are There Any Railroad Crossings On Detour?

No

Should Work Zone Pedestrian Access Be Maintained During Construction? **No**

Overhead Utility Lines

In Conflict **downstream**

Power Transmission Lines

~~In Conflict~~

Telephone

In Conflict **downstream**

Cable Lines

~~In Conflict~~

Fiber Optic

~~In Conflict~~

Water

In Conflict **upstream**

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: **American Alligator, Red-cockaded woodpecker, Bald Eagle, Northern Long-eared bat, Wood Stork, American chaffseed, Pondberry, Rough-leaved loosestrife,**
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 discussion: **NW3**

Water Quality Classification: **C; Sw (14-22-11); Crawley Swamp** 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 or Power Generation:	No
Water Supply Reservoir:	No	Nutrient Sensitive Waters:	No
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: **West Bladen HS- No issues**

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:

Steel Piles

Hydraulics

FEMA Approval? **Yes, limited** (MOA)

Is There Unusual Scour Potential? **No** Is Protection Needed? **Std.**

Are Banks Stable? **Yes** Is Protection Needed? **Std.**

Appreciable Amount Of Large Debris? **Moderate**

Placement Of Bents In The Water Be Allowed: **Yes** Where: **Min. 5' from TOB**

Structure Type: **Bridge** If Bridge: **CS** If girder; why?

Length Of Structure: **110'** Min. Number Of Spans: **2** Span Arrangement: **2@ 55'**

Waive offset: **Yes** EB Cap: **2'-6"** Skewed: **90 degrees**

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: **650 per SIR** NHS: **No** Tier: **Subregional** Func. Class: **Local**

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

Roadway lane width: **10'** with **3'** shoulders with

Extension of Paved shoulders: end of **construction limits** and taper down to 2' and blunt end

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

Min. Pavement Surface Course: **3"** Existing Roadway: **18'**

Pavement Marking: **Paint** 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 and cap.**

Salvageable materials: **None**

Contact Person/number:

Deliver to:

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

Sequencing priority in construction? **None**

Comments: