

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

FIELD SCOPING MEETING WORKSHEET

Design Build Process

WBS No.: **17BP.6.R.82**

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

Division: **6**

Location: **On-site**

Route (US/NC/SR): **NC 83**

County: **Robeson**

Project Description: **Bridge No. 770028 over Leith Creek on NC 83**

Tier: **Regional – Major Collector**

Funding: **State**

Municipality: **N/A**

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 District Engineer	Chuck Miller	910-618-5546	csmiller@ncdot.gov
Div. 6 Locating Engineer	John Kaukola	910-486-1338	jkaukola@ncdot.gov
Robeson County Maint. Engineer	Brice Bell	910-618-5543	bricebell@ncdot.gov
Div. 6 Bridge Engineer	Darren Pittman	910-364-0670	dpittman@ncdot.gov
Robeson Bridge Maint. Supervisor	Daniel Leggett	910-618-5542	dtleggett@ncdot.gov
Hydraulics Engineer	Andy Jordan	919-707-6729	pajordan@ncdot.gov
Hydraulics Engineer	Jon Moore	919-707-6738	Jlmoore6@ncdot.gov
DENR-DWR	Joanne Steenhuis	910-796-7306	Joanne.steenhuis@ncdenr.gov
Div. 6 Bridge Maint.	Mike Fisher	910-364-0670	mdfisher@ncdot.gov
PPU	Jamie Lancaster	919-707-6620	jlancaster@ncdot.gov
PPU	Pam Williams	919-707-6608	prwilliams@ncdot.gov
Div. 6 Const. Staff Engineer	Joe Bailey	910-364-0600	Jwbailey1@ncdot.gov

Existing Features

Feature Bridged: **770028 over Leith Creek on NC 83**

Ex. Bridge Clear Deck Width: **29.17 (Ft.)**

Roadway width: **26 (Ft.)**

(Bridge / Culvert) Length: **122 (Ft.)**

Deck Width (Out To Out): **31.3 (Ft.)**

Water Depth: **8 (Ft.)**

Height Bed-To-Crown: **15 (Ft.)**

Year Built: **1947**

Posted: SV **Not Posted**

TTST: **Not Posted**

Superstructure: **RC Deck on I-Beams**

Abutment: **RC caps on Timber piles**

Pier Type:

Temp. Shored: **Yes**

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

PRI: **26.15**

DP: **3.5**

SR: **70.39**

School Bussing crossings per day:

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

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

If Off-Site, Description Of Detour Route: **SR 1100 (Robeson Co)/SR 1623 (Scotland Co.) to SR1624 (Scotland Co.) to SR 1615 (Scotland Co.)/SR 1103 (Robeson County) to SR 1104 to SR 1101**

Approximate Length Of Detour? **7.2 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?

Are Bridges On Detour Currently Programmed? **Scotland Bridge 50 under construction. 2/15/18 scheduled completion**

Are There EMS Or Business Access Issues?

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**

Environmental

Wetlands At Site: **Yes** Comments:

Endangered Species In County: **Red-cockaded woodpecker, Michaux's sumac**

T&E species effect: **No effect for all**

Trout County: **No** TVA County: **No**

CAMA County: **No** Primary Nursery Area: **No**

Moratoria: **No** Which species: Duration:

Permits discussion: **NW 3**

Water Quality Classification: **C; SW (14-33) Leith Creek (Johns Pond)** 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:

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** (MOA)

Is There Unusual Scour Potential? **No**

Is Protection Needed? **Standard**

Are Banks Stable? **Yes**

Is Protection Needed? **Standard**

Appreciable Amount Of Large Debris? **Moderate**

Placement Of Bents In The Water Be Allowed: **Yes** Where: **5' off top of bank**

Structure Type: **Bridge**

If Bridge: **CS**

If girder; why?

Length Of Structure: **135**

Min. Number Of Spans: **3**

Span Arrangement: **2@40, 1@55**

Waive offset: **Yes**

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

Skewed: **90 degrees**

Provide as close to 10' of offset as possible. Top down construction. Okay to use cored slab on NC route.

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: **610 per SIR**

NHS: **No**

Tier: **Regional**

Func. Class: **Major Collector**

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

Roadway lane width: **12'** with **5'** shoulders

Extension of Paved shoulders: **N/A**

Pave to face of guardrail and taper 8:1 to travel lane/paved shoulder? **Yes 8:1 down to 2' and blunt end**

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

Existing Roadway: **20'**

Pavement Marking: **Thermoplastic**

Pavement Markers: **Raised**

Will Railroad Involvement Be Required: **No**

Method of Clearing: **II modified**

Truck Percentage: **7 % per BIR**

Reasonable Safe Speed per SIR: **55 mph**

Liquidated damages: will be imposed after **150** days of closure/construction. Amt: \$ **500** per day

CEI by? **NCDOT**

R/W by? **DBT**

R/W monuments? **Pin and Caps**

Salvageable materials: **None**

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

Sequencing priority in construction?

Comments: **Provide Subregional Tier approach fills. Provide guardrail per Standards since it is a Regional Tier route. No concrete overlay on bridge. No vertical curve on bridge. No deck drains over water. Top down construction.**