

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

TIP: **B-6004** WBS: **48199.1.1** Field Scoping Meeting Date: **July 30, 2018**
Division: **6** Location: **On-site**
Route (US/NC/SR): **SR 1534** County: **Bladen**
Project Description: **080197 over Kelly Canal on SR 1534 (Lyon Road)**
Tier: **Subregional** Funding: **Federal**
Municipality: **N/A**

Attendees

	Name	Phone	E-mail
Division Bridge Program Manager	Christy Huff, PE	910-364-0603	chuff@ncdot.gov
Division Environmental Officer	James Rerko	910-364-0834	jjrerko@ncdot.gov
Division Environmental Specialist	Greg Price	910-364-0835	gwprice2@ncdot.gov
Division Project Development Eng.	Steve Kendall	910-364-0603	sdkendall@ncdot.gov
Division Bridge Maintenance Engineer	Darren Pittman	910-364-0670	dpittman@ncdot.gov
Assistant Division Bridge Maintenance Engineer	Mike Fisher	910-364-0670	mdfisher@ncdot.gov
Division Utility Coordinator	Rick Bounds	910-639-7345	rbounds@ncdot.gov
PPU	Jamie Lancaster, PE	919-707-6620	jlancaster@ncdot.gov
PPU	Jess Earley, PE	919-707-6606	jsearley@ncdot.gov
Hydraulics Engineer	Jon Moore, PE	919-707-6738	jlmoore6@ncdot.gov
Hydraulics Engineer	Erik Seiler	919-707-6757	epseiler@ncdot.gov
NCDEQ-DWR	Joanne Steenhuis		Joanne.steenhuis@ncdenr.gov
Bridge Maintenance Supervisor	Gary Hilburn	910-642-4388	gdhilburn@ncdot.gov
Assistant Resident Engineer (Whiteville)	Jason Johnson	910-642-2489	Jajohnson4@ncdot.gov
District Engineer (Bladen, Columbus)	Ken Clark, PE	910-642-3760	klclark@ncdot.gov
County Maintenance Engineer (Bladen)	Nick Garrell	910-862-3396	nlgarrell@ncdot.gov

Existing Features

Feature Bridged: Structure **080197 over Kelly Canal on SR 1534 (Lyon Road)**

Ex. Bridge Clear Deck Width: **24.083 (Ft.)**

Roadway width: **18 (Ft.)**

(Bridge / Culvert) Length: **61 (Ft.)**

Deck Width (Out To Out): **25.583 (Ft.)**

Water Depth: **2 (Ft.)**

Height Bed-To-Crown: **10 (Ft.)**

Year Built: **1967**

Posted: SV **24**

TTST: **32**

Superstructure: **Prestressed
Concrete Channels**

Abutment: **_**

Pier Type: **2 @ 30'6"**

Temp. Shored: **_**

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

PRI: **56.712** DP: **2** SR: **25.97** School Bus crossings per day: **Division**

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

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

If Off-Site, Description Of Detour Route: **Dead End Road**

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

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

Div. Traffic Eng. Recommend Off-site detour signing? **Trailblazing with Street/Road names**

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

Are future plans for upgrading this roadway either at or in the vicinity of this project? **N/A**

Are Bridges On Detour Currently Programmed? **N/A**

Are There EMS Or Business Access Issues? **Yes, churches and houses, Blueberry Farms**

Are There Any Railroad Crossings On Detour? **N/A**

Should Work Zone Pedestrian Access Be Maintained During Construction? **N/A**

Overhead Utility Lines In Conflict **Yes—4 County**

Power Transmission Lines In Conflict **No**

Telephone In Conflict **No**

Cable Lines In Conflict **Yes**

Fiber Optic In Conflict **No**

Water In Conflict **No**

Sewer In Conflict **No**

Natural Gas In Conflict **No**

Other In Conflict **No**

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, American Chaffseed, Pondberry, Rough-Leaved Loosestrife, Northern Long-Eared Bat

T&E species effect: **No Effect**

Trout County: **No**

TVA County: **No**

CAMA County: **No**

Primary Nursery Area: **No**

Moratoria: **No**

Which species:

Duration: **No**

Permits discussion: **NW #3**

Water Quality Classification: **Class C-Sw**

303d: **No**

Coast Guard Permit? **No**

Drainage Basin: **Cape Fear**

Riparian Buffer Rules: **N/A**

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? **Two churches, one on each side of bridge**

Is this a Statewide Bicycle Route or a Local n-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? **No** (MOA)

State Stormwater Permit? **No**

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' left of existing (looking south-downstream)**

Structure Type: **Bridge**

If Bridge: **CS**

If girder; why?

Length Of Structure: **70ft**

Min. Number Of Spans: **1**

Span Arrangement: **1@70ft**

Waive offset: **Yes**

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

Skewed: **No**

Temporary pipes will be allowed for onsite detour. An estimated pipe size that passes the 10 year storm event would be 2 @ 60" CAP or 1 @ 78" CAP. The drainage area is indeterminate (1.2 square miles was used for the analysis). The actual size of the on-site detour will be determined once the team models the crossing.

Items To Be Discussed / Resolved At FSM By Attendees

Off-Site ☐

Stage Construction ☐

New Alignment ☐

On-site ☒

Clear roadway width:
Temp. Signals:

Alignment: N, E, W, S

Alignment: N, E, W, S

Pipes
Clear roadway width:
one lane w/ signals, 12ft lane with
5ft shoulders (downstream-east
side)

Environmental Document Prepared by DEO Or PEF:

CE (federal) ☒

Minimum Criteria Checklist (state) ☐

ADT: **180 per SIR**

NHS: 0

Tier: Subregional

Func. Class: Local

Bridge Min. Clear Deck Width Recommended by Div.: **30 ft OTO**

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

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

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

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

Existing Roadway:

Pavement Marking: **Paint**

Pavement Markers: **none**

Will Railroad Involvement Be Required: **No**

Method of Clearing: **Type II Modified**

Truck Percentage: **6% per BIR**

Reasonable Safe Speed per SIR: **55 mph (from speed study)**

Liquidated damages: will be imposed after **180** days of closure/construction. Amt: **\$ 500** per day

CEI by?

NCDOT

R/W by?

DBT

R/W monuments? **Pin & Cap**

Salvageable materials: **Pipes from detour (none on existing)**

Contact Person/number: **Nicky Gerald**

Deliver to: **Bladen County Bridge Maintenance Yard**

Removal of previous structure remnant abutments/piers: **Yes**

Sequencing priority in construction? **First Priority**

Comments: **Not on an evacuation route, Due to Churches: Restriction placed on Sunday work, bridge is between two curves**

