

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

WBS No.: **DF15006.2026041**

Field Scoping Meeting Date: **12/07/2016**

Division: **6**

Location: **On-site**

Route (US/NC/SR): **SR 1141**

County: **CUMBERLAND**

Project Description: **Culvert over Beaver Creek Tributary on SR 1141 (Bingham Drive)**

Tier: **SUBREGIONAL**

Funding: **Federal**

Municipality: **FAYETTEVILLE**

Attendees

	Name	Phone No.	E-mail
PPU	Virginia Mabry	919-707-6604	vmabry@ncdot.gov
PPU	Laura Sutton	919-707-6607	lsutton@ncdot.gov
Hydraulics Engineer	Jerry Lindsey	919-707-6700	jlindsey@ncdot.gov
Hydraulics Engineer	Jon Moore	919-707-6738	jLmoore@ncdot.gov
Hydraulics Engineer	David Holmes		dkholmes@ncdot.gov
Division Maintenance Engineer	Ken Murphy	910-486-1493	rkmurphy@ncdot.gov
Division Bridge Engineer	Darren Pittman	910-829-6345	dpittman@ncdot.gov
Division Bridge Maintenance	Mike Fisher	910-829-6345	mdfisher@ncdot.gov
Division Construction Engineer	Randy Wise	910-486-1493	rwise@ncdot.gov
Construction Staff Engineer	Joe Bailey	910-486-1493	jwbailey1@ncdot.gov
Assistant Resident Engineer	Spencer Shoffner	919-486-1401	sgshoffner@ncdot.gov
Division Locating Engineer	John Kaukola	910-486-1338	jkaukola@ncdot.gov
Division District Engineer	Richie Hines	Not present	
Division Environmental Officer	James Rerko	Not present	
Regional Geotechnical Engineer	Neil Roberson	Not present	
Fayetteville PWC Water	Joe Glass	910-233-4740	joe.glass@faypwc.com
Fayetteville PWC Water	James Michel	910-223-4875	james.michel@faypwc.com

Existing Features

Feature Bridged: **Culvert over Beaver Creek Tributary on SR 1141 (Bingham Drive)**

Roadway Width: **41' min.; 56' max. (Ft.)**

Shoulder Width: **8' (2' paved) (Ft.)**

Ex. Bridge Clear Deck Width: **N/A**

Deck Width (Out To Out): **N/A**

Culvert Length (along road): **not available**

Culvert Length (along culvert CL): **14 (Ft.)**

Existing Structure Type: **112" x 75" Aluminum CMP w/wing walls** (per as-built plans)

Water Depth: **(Ft.)**

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

Year Built: **2005**

Posted: SV **Not Posted**

TTST: **Not Posted**

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

PRI: **N/A**

DP: **N/A**

SR: **N/A**

School Bussing crossings per day: (road closed)

Posted Speed Limit Vicinity: **35 mph**

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

If Off-Site, Description Of Detour Route: NC 162 (Bunce Rd) – US 401

Approximate Length Of Detour? **0.9 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** (road currently closed)

Are There Any Railroad Crossings On Detour? **No**

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

Overhead Utility Lines In Conflict **Yes**

Power Transmission Lines In Conflict

Telephone In Conflict **Yes**

Cable Lines In Conflict

Fiber Optic In Conflict

Water In Conflict **Yes**

Sewer In Conflict **Yes**

Natural Gas In Conflict

Other In Conflict

Is There Any Future Utility Construction Anticipated In The Project Area:

Is A FEMA Buy-Out Property Being Impacted:

Environmental

Wetlands At Site: **Yes** Comments: **Upstream and downstream (need to be delineated)**

Endangered Species In County: **American Alligator, Red-cockaded woodpecker, Saint Francis' satyr butterfly, American Chaffseed, Michaux's sumac, 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** 303d: **No**

Coast Guard Permit? **No** Drainage Basin: **Cape Fear** 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: **Archaeology:** **No surveys required**

Is The Bridge Structure Itself, Or Any Part Thereof, Considered Historic: **No**

Impacts to a Church, Community Center, Or Other Public Facility? **Yes**

Is this a Statewide Bicycle Route or a Local Non-Marked Bicycle Route: **No**

Comments: Arran Lake Baptist Church and Brentwood Elementary School in project vicinity

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)

Is There Unusual Scour Potential? **Mod.**

Is Protection Needed? **Yes**, for headcut upstream

Are Banks Stable? **Yes**

Is Protection Needed? **Std. Class II rip rap topped with layer of Class B rip rap**

Appreciable Amount Of Large Debris?

Placement Of Bents In The Water Be Allowed: **Yes** Where: **no restriction?**

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

Length Of Structure: **95'** Min. Number Of Spans: **2** Span Arrangement: **45'-50'**

Waive offset: **No** EB Cap: **4'-0"** Skewed: **No**

Items To Be Discussed / Resolved At FSM By Attendees

Off-Site ☒

Stage Construction ☐

New Alignment ☐

On-site ☐

Clear roadway width:
Temp. Signals:

Clear roadway width:
one lane w/ signals:
or two lanes CRW:

Alignment: N, E, W, S

Alignment: N, E, W, S

Alignment: N, E, W, S

Environmental Information necessary to complete PCE provided by DBT to DEO:

PCE ☒

Minimum Criteria Checklist ☐

ADT: **5400** (avg. per as-builts) NHS: **No** Tier: **SUBREGIONAL** Func. Class: **LOCAL**

Bridge Min. **Out-Out** Deck Width Recommended by Div.: **51'-0"** (17 units max.); provide a 42" Vertical Concrete Barrier Rail on the west side and a 5'-6" sidewalk with 3-Bar Metal Rail on the east side

Roadway lane width: **36'** with **8'** shoulders, including **4' min.** paved shoulder on the west side, **2'-6"** C&G east side through construction limits

Extension of Paved shoulders: **end of construction limits and blunt end**

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

Min. Pavement Surface Course: **2.5 (Inches)** Existing App. Roadway: **36 (Ft.)**

Pavement Marking: **Thermoplastic** Pavement Markers: **Raised**

Will Railroad Involvement Be Required: **No** Method of Clearing: **II modified**

Truck Percentage: **6 %** Reasonable Safe Speed per SIR: **35 mph**

Liquidated damages: will be imposed after **120** days of closure/construction. Amt: **\$ 1000** per day

CEI by? **NCDOT** R/W by? **DBT** R/W monuments? **Pin & Cap**

Salvageable materials: **N/A**

Removal of previous structure remnants: **remove existing pipe remnants inside right of way**

Sequencing priority in construction? **Emergency Replacement**

Comments: **400' roadway limits not including proposed bridge. No work on Sundays or during funerals due to Arran Lake Baptist Church.**