

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

WBS No.: **17BP.6.R.43**

Field Scoping Meeting Date: **July 22, 2014**

Division: **6**

Location: **On-site**

Route (US/NC/SR): **SR 1005**

County: **COLUMBUS**

Project Description: **Bridge No. 230126 over GUM SWAMP on SR 1005 (Peacock Rd.)**

Tier: **Subregional**

Municipality: **No**

Attendees

	Name	Phone No.	E-mail
Division Bridge Manager	Brice Bell	910-486-1493	bricebell@ncdot.gov
Division Environmental Off.	Jim Rerko	910-437-0207	jjrerko@ncdot.gov
Hydraulics Engineer	Jerry Lindsey	919-707-6734	jlindsey@ncdot.gov
TPMU	Pam Williams	919-707-6608	prwilliams@ncdot.gov
TPMU	Rachel Evans	919-707-6609	rcevans@ncdot.gov
TPMU	Jamie Lancaster	919-707-6620	jlancaster@ncdot.gov
Bridge Management	Paul Garrett	919-707-6457	pgarrett@ncdot.gov
Resident Engineer	W.R. Marsh		
Assistant Resident Engineer	Terry Church		
Div 6 Locating Engineer	John Kaukola		
Division Maintenance Engineer	Ken Murphy		
Division Bridge Engineer	Darren Pittman		
Bridge Maintenance Supervisor	Barry Gelezinsky		
NCDOT Div 6	Kevin Worley		
District Engineer	Drew Cox		
USFWS*	Gary Jordan	919-856-4520x32	gary_jordan@fws.gov;
DENR-DWR	Mason Herndon	910-308-4021	Mason.herndon@ncdenr.gov
USACE*	Liz Hair	910-251-4049	sarah.e.hair@usace.army.mil
NCWRC*	Travis Wilson	919-707-0370	Travis.Wilson@ncwildlife.org;

***invited but did not attend**

****see sign-in sheet for more info**

Existing Features

Feature Bridged: **230126 over GUM SWAMP on SR 1005 (Peacock Rd.)**

Ex. Bridge Clear Deck Width: **24 (Ft.)**

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

(Bridge / Culvert) Length: **40 (Ft.)**

Deck Width (Out To Out): **25.30(Ft.)**

Water Depth: **11(Ft.)**

Height Bed-To-Crown: **16(Ft.)**

Year Built: **1954**

Posted: SV **NP**

TTST: **NP**

Superstructure: **ST M-BM**

Abutment: **TM**

Pier Type: **TM**

Temp. Shored: **No**

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

PRI: DP: **SR: 16.3**

School Bussing crossings per day: **2 buses/ 4 trips**

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

Existing Road Surface: **Paved**

Detour Off-Site ☒

Stage Construction ☐

New Alignment ☐

On-site ☐

If Off-Site, Description Of Detour Route: **SR 1319, NC 410, SR 1315**

Approximate Length Of Detour? **4.5 (Miles)**

Improvements Needed To Road(s) On Detour? **No**

Div. Traffic Eng. Recommend Off-site detour signing? **Trailblazing (with St./Rd. names)**

Improvements Needed To Bridges On Detour? **No, Culvert upstream and downstream**

Are Bridges On Detour Currently Programmed? **No**

Are There EMS Or Business Access Issues? **Length of Detour route would increase response times for fire, EMS and law enforcement**

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

Based On The Past History Near This Project Site, What Is The Estimated Time Required To Complete Utility Adjustments **5 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: **NES located**

Endangered Species In County: **American alligator, Atlantic sturgeon, Bald Eagle (BGPA), Red-cockaded woodpecker, Shortnose sturgeon, Waccamaw silverside, Wood stork, Cooley's meadowrue & Rough-leaved loosestrife.**

T&E species effect: **Waccamaw silverside – No effect**

Trout County : **No**

TVA County: **No**

CAMA County: **No**

Primary Nursery Area: **No**

Moratoria: **No**

Which species:

Duration :

Permits: **Low Impact Bridges**

Water Quality Classification: **C; Sw**

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**

Note:

***H piles or pipe piles allowed, no concrete piles**

Hydraulics

FEMA Approval? **Limited DS**
MOA, possible insurable structures
upstream

State Stormwater Permit? **No**

Is There Unusual Scour Potential? **No**

Is Protection Needed? **No**

Are Banks Stable? **Yes**

Is Protection Needed? **Standard end bent**

Appreciable Amount Of Large Debris? **Moderate**

Placement Of Bents In The Water Be Allowed: **Yes** Where: **center third**

Superstructure Type: **Bridge**

If Bridge: **CS**

If girder; why?

Length Of Structure: **80'**

Min. Number Of Spans: **2**

Span Arrangement: **1@45', 1@35'**

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 ☐

Clear roadway width (CRW):

Temp. Signals:

Alignment: N, E, W, S

Alignment; N, E, W, S

CRW:

one lane w/ signals;

or two lanes CRW;

Alignment;

Environmental Document Prepared by DBE: Low Impact Data Spreadsheet ☒ Minimum Criteria Checklist ☐

ADT: **1300 per SIR**

NHS: **No**

Tier: **Subregional**

Func. Class: **Minor Collector, Rural**

Bridge Min. Clear Deck Width Recommended by Div.: **30'CRW, 33' OTO**

Roadway lane width **11'** with **4'** shoulders including **2'** paved shoulders

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: **3"** inches:

Existing Roadway: **18**

Pavement Marking: **Thermoplastic**

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? **concrete monuments**

Salvageable materials: **NO**

Contact Person/number:

Deliver to:

Removal of previous structure remnant abutments/piers: **No**

Sequencing priority in construction? **Build 230126, 230308 sequentially**

Comments:

-Division wants approach slabs constructed perpendicular to roadway center

- Division requests new pavement a minimum of 50 feet from both ends of bridge.
- Bridge is within ½ mile of a Voluntary Agricultural District

Columbus 230126

