

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

TIP: B-6014	WBS: 17BP.13.R.196	Field Scoping Meeting Date: 11/8/18
Division: 13	Location: On-site	
Route (US/NC/SR): SR 1781	County: McDowell	
Project Description: Structure 580312 over Second Broad River on SR 1781 (Polly Spout Road)		
Tier: Sub-Regional	Funding: Federal	
Municipality: N/A		

Attendees

[illegible]

Existing Features

Feature Bridged: **Bridge No. 580312 over Second Broad River on SR 1781**

Ex. Bridge Clear Deck Width: **22 Ft**

Roadway width: **21 Ft**

(Bridge / Culvert) Length: **66 Ft**

Deck Width (Out To Out): **22.667 Ft**

Water Depth: **2 Ft**

Height Bed-To-Crown: **13 Ft**

Year Built: **1960**

Posted: **SV 18**

TTST: **21**

Superstructure: **Timber Floor
on Salvaged I-Beams**

Abutment: **EB: Tim Cap/ Piles;
Bt: Tim Cap/TimP&S; Abut: RD
w/ Tim Riser**

Pier Type: **1@33'3", 1@32'3"**

Temp. Shored: **_**

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

PRI: **53.84**

DP: **5.5**

SR: **35.85**

School Bussing crossings per day: **Buses per
day: 3; Trips per day: 6**

Posted Speed Limit Vicinity: **45 mph**

Detour

Off-Site ☒

Stage Construction ☐

New Alignment ☐

On-site ☐

If Off-Site, Description Of Detour Route: **US 221 – SR 1781**

Approximate Length Of Detour? **4.7 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**

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

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

Overhead Utility Lines In Conflict

Power Transmission Lines In Conflict **Yes**

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: **No**

Comments:

Endangered Species In County: **Bald Eagle, Bog Turtle, Carolina Northern Flying Squirrel, Gray Bat, Northern Long-Eared Bat, Rusty Patched Bumble Bee, Mountain Golden Heather, Small Whorled Pogonia**

T&E species effect: **No**

Trout County: **Yes**

TVA County: **No**

CAMA County: **No**

Primary Nursery Area: **No**

Moratoria: **No**

Which species:

Duration:

Permits discussion: **Nationwide 3**

Water Quality Classification: **WS-V**

303d: **No**

Coast Guard Permit? **No**

Drainage Basin: **Broad**

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**

Kwn 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 n-Marked Bicycle Route: **No**

Comments:

Geotechnical

Are There Any Historical and/or Vibration Sensitive Structures Near By? -----

Comments:

Are There Any Kwn 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) State Stormwater Permit?
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: **Not in middle 1/3**
Structure Type: **Bridge** If Bridge: **CS** If girder; why?
Length Of Structure: **110 ft** Min. Number Of Spans: **2** Span Arrangement: **1@70ft & 1@ 40ft**
Waive offset: **No** EB Cap: **4'-0"** Skewed: **Yes**

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 Alignment: N, E, W, S
Environmental Document Prepared by DEO:
CE (federal) ☒ Minimum Criteria Checklist (state) ☐
ADT: **130 per SIR** NHS: **0** Tier: **Sub-Regional** Func. Class: **Minor Collector**
Bridge Min. Clear Deck Width Recommended by Div.: **30 ft OTO**
Roadway lane width: **10'** with **3'** shoulders, including **2'** paved shoulders
Extension of Paved shoulders: **end of construction limits taper 8:1**
Pave to face of guardrail and taper 8:1 to travel lane/paved shoulder? **Yes**
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: **25 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? **Conc.**
Salvageable materials: **No**
Contact Person/number:
Deliver to:
Removal of previous structure remnant abutments/piers: **Yes**
Sequencing priority in construction? **No**
Comments: **A turnaround for school buses may be necessary.**

