

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

TIP: **WBS: 17BP.11.R.159** **Field Scoping Meeting Date: January 29, 2020**

Division: 11 **Location: On-site**

Route (US/NC/SR): SR 1433 **County: Alleghany**

Project Description: Structure 020133 over Little River on SR 1433 (Ridge Glen Road)

Tier: Sub-Regional **Funding: Federal**

Municipality: N/A

Attendees

	Name	Phone	E-mail
Division Bridge Program Manager	Joe Laws, PE	(336)903-9138	jlaws@ncdot.gov
Division Environmental Officer	Kevin Hining	(336)903-9129	kjhining@ncdot.gov
Division Bridge Maintenance Supervisor	Chad Cox	(336)384-2562	cwcox@ncdot.gov
Division Construction Engineer	Trent Beaver, PE	(336)903-9117	tbeaver@ncdot.gov
Division Bridge Maintenance Engineer	David Wayne, PE	(336)903-9124	dwayne@ncdot.gov
Division Utility Coordinator	Susan Huffman	(336)903-9137	sohuffman@ncdot.gov
PPU	Jess Earley, PE	(919)707-6606	jsearley@ncdot.gov
PPU	David Stark, PE	(919)707-6605	dstark@ncdot.gov
Hydraulics Engineer	Marc Shown, PE	(919)707-6751	mshown@ncdot.gov
Hydraulics Engineer	Jon Moore, PE	(919)707-6738	Jlmoore6@ncdot.gov
USACE	Lori Beckwith	(828)271-7980 ext. 4223	Loretta.A.Beckwith@usace.army.mil
NCDEQ-DWR	Dave Wanucha	(336)776-9703	Dave.wanucha@ncdenr.gov
USFWS	Claire Ellwanger	(828)258-3939 ext. 235	Claire.ellwanger@fws.gov
NCWRC	Marla Chambers	(704)244-8907	Marla.chambers@ncwildlife.org
Division Locating Engineer	Larry Absher	(336)903-9500	lrabsher@ncdot.gov

Existing Features

Feature Bridged: **Structure 020133 over Little River on SR 1433**

Ex. Bridge Clear Deck Width: **15.917 ft**

Roadway width: **18 ft**

(Bridge / Culvert) Length: **61 ft**

Deck Width (Out To Out): **14 ft**

Water Depth: **4 ft**

Height Bed-To-Crown: **8 ft**

Year Built: **1962**

Posted: **SV 12**

TTST: **16**

Superstructure: **Timber floor on I-Beams**

Abutment: **Steel Caps & Reinforced Concrete**

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

Temp. Shored: **N/A**

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

PRI: **45.57**

DP: **8.10**

SR: **23.5**

School Bussing crossings per day: **Division**

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

Detour

Off-Site ☒

Stage Construction ☐

New Alignment ☒

On-site ☐

If Off-Site, Description Of Detour Route: **NC 18—SR 1448—SR 1453**

Approximate Length Of Detour? **8.4 miles**

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? **N/A**

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

Power Transmission Lines

In Conflict **Yes**

Telephone

In Conflict **Yes**

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:

Is A FEMA Buy-Out Property Being Impacted: **No**

Environmental

Wetlands At Site: **No** Comments:

Endangered Species In County: **Bog Turtle, Gray Bat, Northern Long-eared Bat**

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

Trout Watersheds: **Yes**

TVA County: **No**

CAMA County: **No**

Primary Nursery Area: **No**

Moratoria: **No**

Which species: **N/A**

Duration: **N/A**

Permits discussion: **Nationwide 14**

Water Quality Classification: **C**

303d: **No**

Coast Guard Permit? **No**

Drainage Basin: **New River**

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: Survey Required (After Survey - NO sites found)

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** (CLOMAR)

State Stormwater Permit?

Is There Unusual Scour Potential? **No**

Is Protection Needed? **No**

Are Banks Stable? **Yes**

Is Protection Needed? **No**

Appreciable Amount Of Large Debris? **Yes**

Placement Of Bents In The Water Be Allowed: **Yes**

Where: **Not in center**

Structure Type: **Bridge**

If Bridge: **CS**

If girder; why?

Length Of Structure: **150 ft**

Min. Number Of Spans: 3

Span Arrangement: **1@40ft,
1@70ft, 1@40ft**

Waive offset: **No**

EB Cap: **4'-0"**

Skewed: **Yes**

***Achieve the 10-year storm – may raise low steel by 6-8ft. Provide 400 feet of stream bank stabilization on the east downstream bank along SR 1434.**

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: North

Clear roadway width:

one lane w/ signals:

or two lanes CRW:

Alignment: N, E, W, S

Environmental Document Prepared by DEO Or PEF: **PEF (TGS)**

CE (federal) ☒

Minimum Criteria Checklist (state) ☐

ADT: **90 per BIR
(2000)**

NHS: **0**

Tier: **Sub-Regional**

Func. Class: **Local**

Bridge Min. Clear Deck Width Recommended by Div.: **27 ft**

Roadway lane width: **9'** with **3'** shoulders

Extension of Paved shoulders: **End of Project 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: **18 ft**

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: **35 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: **All Steel**

Contact Person/number: **Chad Cox**

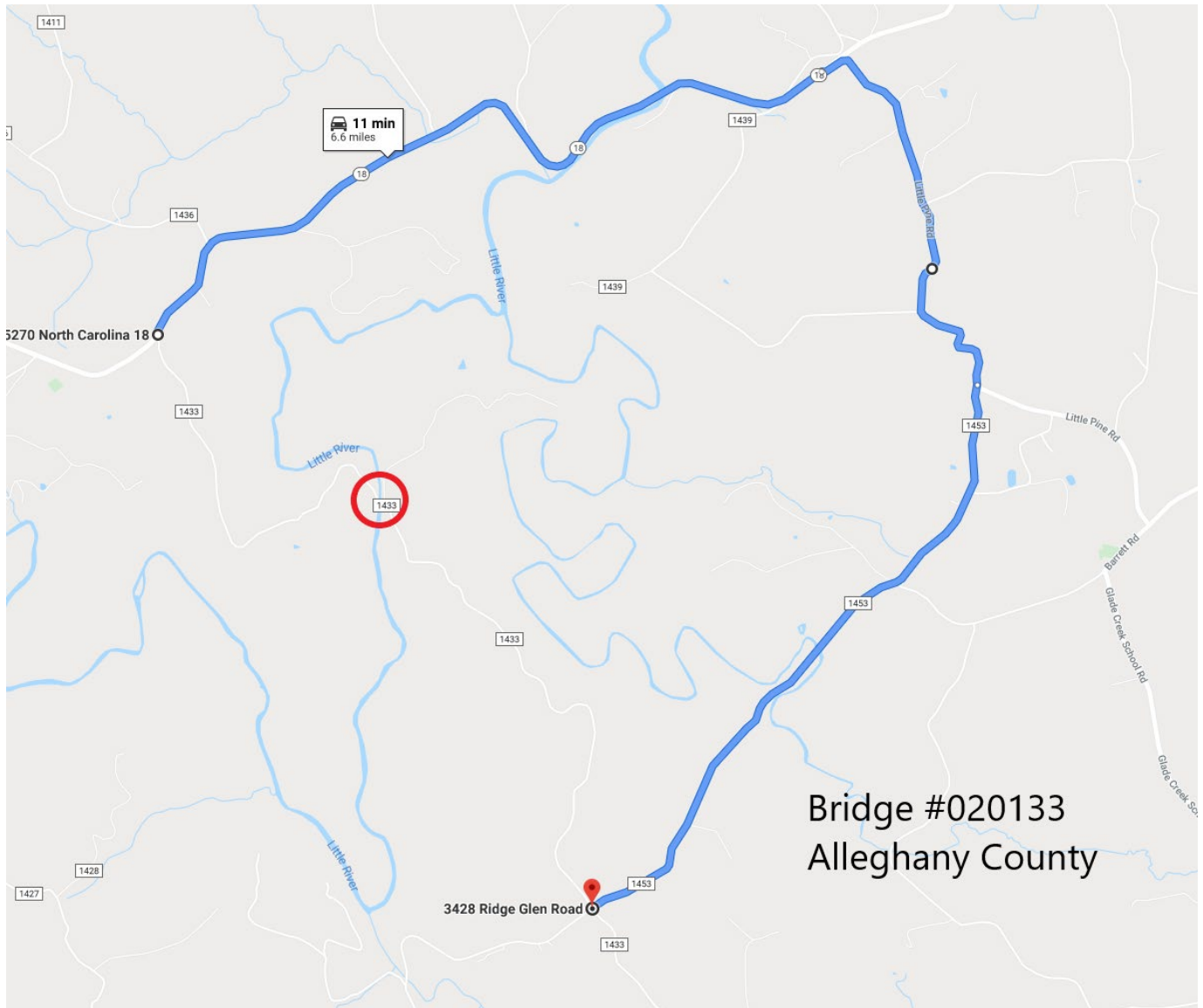
Deliver to: **Division 11 Maintenance Yard Ashe County**

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

Sequencing priority in construction? **None**

Additional Comments: **The length of overlay, wedging, and new pavement shall extend a minimum of 440 feet from the ends of the proposed structure. Realign SR 1434 a minimum of 30 feet to the east from the end of the proposed bridge and provide a minimum of 165 feet of new pavement from the intersection with SR 1433. Replace the 15-inch pipe to the west of the bridge, and the 30-inch pipe, 24-inch pipe and 15-inch pipe to the east of the bridge.**

Design Build Team is to match alignment in “Materials Provided”.



-BL- GPS 020133-I

