



## R-2233BB HYDRAULIC DESIGN 4C MERGER MEETING

**Date:** May 16, 2018

**Time:** 8:00-10:00 AM

**Location:** NCDOT Structure Design Conference Room

**Purpose:** R-2233BB

US 221 Proposed Rutherfordton Bypass  
Rutherford County  
4C Merger Meeting

### In Attendance

Name	Organization	Phone	Email
Bill Zerman	NCDOT Hydraulics Unit	919-707-6755	bzerman@ncdot.gov
Nathan Adima	NCDOT PMU	919-707-6755	nadima@ncdot.gov
Lori Beckwith (On Phone)	USACE	828-271-7980 (4223)	Loretta.a.beckwith@usace.army.mil
Matthew York	NCDOT Hydraulics Unit	919-707-6765	mjyork@ncdot.gov
Marla Chambers	NCWRC	704-244-8907	marla.chambers@ncwildlife.org
Marella Buncick	USFWS	828-258-3939 (237)	<a href="mailto:Marella_buncick@fws.gov">Marella_buncick@fws.gov</a>
Jeff Hemphill	NCDOT EAU	919-707-6126	<a href="mailto:jhemphill@ncdot.gov">jhemphill@ncdot.gov</a>
Carla Dagnino	NCDOT EAU	919-707-6110	<a href="mailto:cdagnino@ncdot.gov">cdagnino@ncdot.gov</a>
Mark Staley (On Phone)	NCDOT	919-707-2948	<a href="mailto:mstaley@ncdot.gov">mstaley@ncdot.gov</a>
Kevin Barnett (On Phone)	DENR	828-296-4657	Kevin.barnett@ncdenr.gov
Crystal Moore	Dewberry	919-424-3745	comoore@dewberry.com
Steve Bondor	Dewberry	919-636-6334	sbondor@dewberry.com

### Summary of Discussion

The R-2233BB project is new alignment approximately 5 miles long and includes two interchanges. Typical section is divided highway with paved shoulders and median ditches.

Purpose of the meeting is to review the potential impact the hydraulic design may have on jurisdictional stream and wetlands. 18 impact sites were identified and shown in the plans.

The jurisdictional stream survey was prepared over 10 years ago and will be updated with a current review. The final survey file will be revised to include the current stream delineation.

Site 2, 3, and 12 are no longer impact sites. See the site comments below for more information.



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### General Comments

- Sites 2, 3, and 12 will be removed from the permit package. Based on the current wet file, these are no longer classified as jurisdictional streams nor wetlands.
- The JD wetland/stream name will be added to the impact table in addition to the site names. Jeff Hemphill has edited the excel table. He also annotated plan sheets so Dewberry can add names to plans.
- The impact table will be revised to include more detailed description of the type of impact. For example: culvert, stream relocation, ditches, and bank stabilization. Footnotes will also be added to the table to help with clarification on the impact type.

### Site 1

- No additional comments other than the general comments.

### Site 2

- Lori Beckwith requested NCDOT confirmation that wetland is not jurisdictional. If the wetland is jurisdictional, confirm if it will be a total take and the amount of impact. Jeff Hemphill verified that stream and wetland are not jurisdictional, therefore, will be removed from project impacts.

### Site 3

- Impact will be removed. The stream is not jurisdictional.

### Site 4

- Address General Comments
- Update the culvert size on the profile and wetland impact table.

### Site 5

- JS MIT at -L- Sta. 815+00 will be removed. This "J" feature is not jurisdictional. The impact table will be revised to remove this length of impact.
- Address General comment for the impact table.

### Site 6

- Address general comments for the impact table.
- Confirm the impact table quantity for existing channel impact permanent.

### Site 7

- Address General comment.

### Site 8

- Address general comment
- Stop the temporary impact at the ROW.

### Site 9

- Address general comment



## R-2233BB HYDRAULIC DESIGN 4C MERGER MEETING

- Confirm the slope of the existing 30" CMP (2.6%) and the proposed 54" RCP (3.1%). It was recommended that the slope be less than 3% to allow passage through the pipe. Current design indicates inlet is buried 1' and outlet flows into a dissipator basin.

### Additional Data Verified

- Existing 30" CMP Pipe Slope is 2.6%
- Proposed 54" RCP Pipe Slope is 3.1%.
- Pending agency review comments, pipe will remain as shown on plans.

### Site 10

- Address general comment
- Turn off impervious dikes from permit drawings
- Add temporary impact from the existing culvert to the DUE.

### Site 11

- No additional comments other than the general comments

### Site 12

- Impact will be removed. The stream is not jurisdictional.

### Site 13

- The jurisdiction stream is not in the current jurisdictional wet file, however, it will be added.

### Site 14

- Move Site 14 note to allow riprap note to appear on the drawing.

### Site 15

- Extend the jurisdictional stream needs to the ROW on the downstream end.
- Address general comment

### Site 16

- General comments – remove bank stabilization text at dissipator. Retain bank stabilization upstream. Add temporary stream impact to PDE downstream.

### Site 17

- No additional comments other than the general comments

### Site 18

- Jurisdictional stream is missing from the JD file. It was agreed upon to keep the impact. No revision necessary.