



I-85 Yadkin River Bridge Project



Overview

- ◉ Project limits: Long Ferry Rd (Exit 81) to North of the NC150 Interchange
- ◉ 3 Miles of Road Widening
Existing 4 Lanes to 8 Lanes
- ◉ 6 New Bridges
- ◉ Rehab Historic Wil-Cox Bridge



I-85 YADKIN RIVER BRIDGE PROJECT



Existing I-85 Bridge



Project Details

- ◉ Design Build Project
- ◉ Awarded to Flatiron Lane Joint Venture
- ◉ 136 Million Dollars for Design & Construction
- ◉ Completion Date – January 26, 2013



I-85 YADKIN RIVER BRIDGE PROJECT



Trestle Construction

I-85 YADKIN RIVER BRIDGE PROJECT



Trestle Construction



I-85 YADKIN RIVER BRIDGE PROJECT



Trestle Finger Construction



I-85 YADKIN RIVER BRIDGE PROJECT



Setting Timber Mats



I-85 YADKIN RIVER BRIDGE PROJECT



Trestle Construction



I-85 YADKIN RIVER BRIDGE PROJECT



Trestle Construction



I-85 YADKIN RIVER BRIDGE PROJECT



Trestle Construction



I-85 YADKIN RIVER BRIDGE PROJECT



Vibrating in Permanent Steel Casing



I-85 YADKIN RIVER BRIDGE PROJECT



Foundation Installation



I-85 YADKIN RIVER BRIDGE PROJECT



Removing Soil from Drilled Shaft



I-85 YADKIN RIVER BRIDGE PROJECT



Drilling Tools



I-85 YADKIN RIVER BRIDGE PROJECT



Lay Down Area for Bridge Materials



I-85 YADKIN RIVER BRIDGE PROJECT



Tying Drilled Shaft Spiral Steel



I-85 YADKIN RIVER BRIDGE PROJECT



SID (Shaft Inspection Device)



I-85 YADKIN RIVER BRIDGE PROJECT



Placing Drilled Shaft Steel



I-85 YADKIN RIVER BRIDGE PROJECT



Drilled Shaft Concrete Pour



I-85 YADKIN RIVER BRIDGE PROJECT



Cleaning off Concrete from Drilled Shaft



I-85 YADKIN RIVER BRIDGE PROJECT



Completed Drilled Shafts



I-85 YADKIN RIVER BRIDGE PROJECT



Installing Column Steel



I-85 YADKIN RIVER BRIDGE PROJECT



Pouring Column Concrete



I-85 YADKIN RIVER BRIDGE PROJECT



Completed Columns



I-85 YADKIN RIVER BRIDGE PROJECT



Bent Cap Construction



I-85 YADKIN RIVER BRIDGE PROJECT



Bent Cap Construction



I-85 YADKIN RIVER BRIDGE PROJECT



Bent Cap Construction



I-85 YADKIN RIVER BRIDGE PROJECT



Setting First Girder
6/13/2011



I-85 YADKIN RIVER BRIDGE PROJECT



Girder Installation Span D



I-85 YADKIN RIVER BRIDGE PROJECT



Concrete Testing
(Anticipate making 2200 Concrete Cylinders)



I-85 YADKIN RIVER BRIDGE PROJECT



GPS Controlled Grading



I-85 YADKIN RIVER BRIDGE PROJECT



Scraper being Loaded



I-85 YADKIN RIVER BRIDGE PROJECT



Historic Wil-Cox Bridge



I-85 YADKIN RIVER BRIDGE PROJECT



Wi-Cox Work Platforms



I-85 YADKIN RIVER BRIDGE PROJECT



Movable Work Platform



I-85 YADKIN RIVER BRIDGE PROJECT



Debris Net

I-85 YADKIN RIVER BRIDGE PROJECT



Wil-Cox Repair Work





Wil-Cox – Existing Barrier Wall



I-85 YADKIN RIVER BRIDGE PROJECT



Wil-Cox Barrier Wall After Repaired



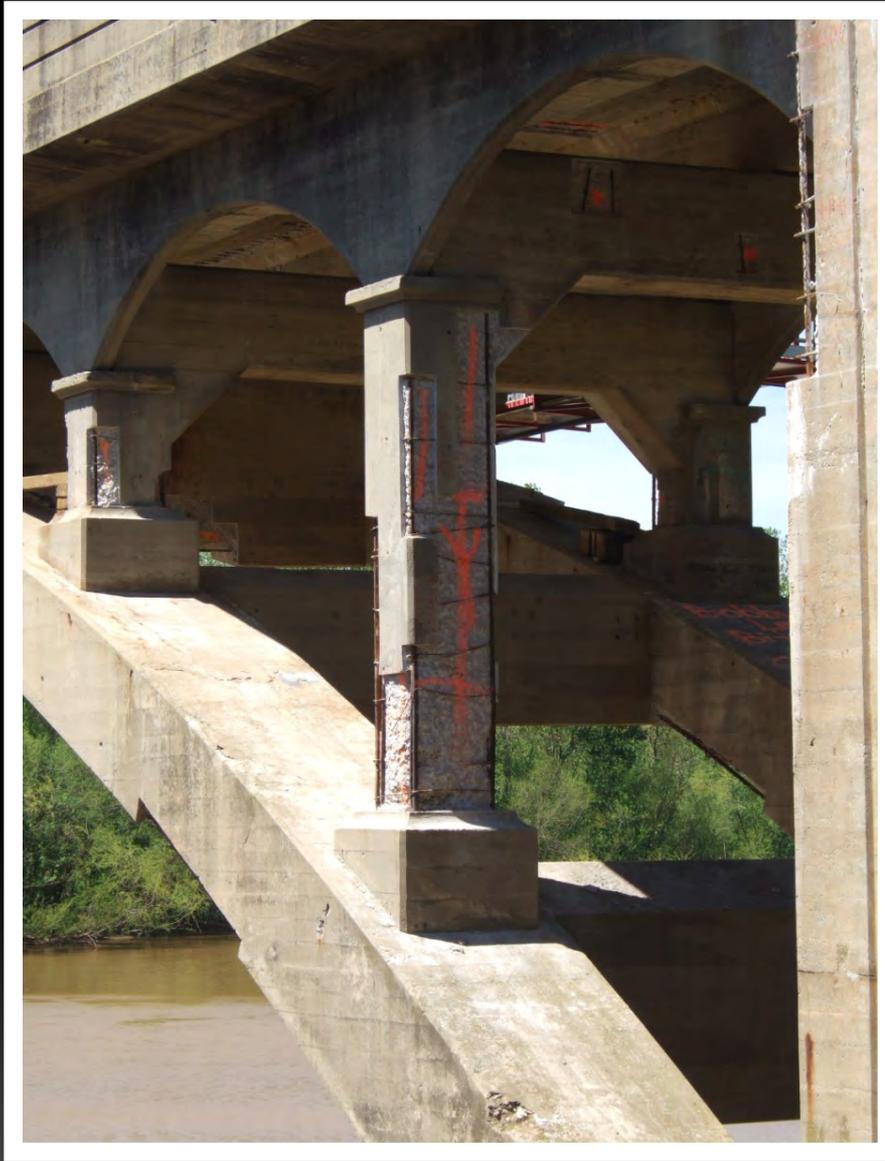
I-85 YADKIN RIVER BRIDGE PROJECT



Concrete Spalls with Exposed Steel



I-85 YADKIN RIVER BRIDGE PROJECT



Concrete Spalls Ready for Shot Crete



I-85 YADKIN RIVER BRIDGE PROJECT



Spraying Shot Crete



Roadway Quantities

- ◎ 91,000 Cubic Yards of Concrete
Over 10,000 Full Concrete Truck Loads
- ◎ 1.2 Million Cubic Yards of Earthwork
90,000 Dump truck Loads of Dirt
- ◎ 23,000 Ft of Drainage Pipe (15" to 72")
4.5 miles of Pipe



Bridge Quantities

- ◎ 40,000 Cubic Yards of Concrete
Over 4,400 Full Concrete Truck Loads
- ◎ 8 Million Pounds of Reinforcing Steel
- ◎ 12,000 ft. of Drilled Shafts
Over 2 miles of Concrete Foundations
below ground



Project Personnel

- ◉ 20 to 30 DOT Engineers/Field Technicians
- ◉ 200 to 250 Contractor Workers
- ◉ 50 or more Design Engineers
- ◉ 24 Hours a Day / 7 Days a Week



Project Milestones

- ◎ **January 2012**

 - North Bound Traffic on New Bridge

- ◎ **May 2012**

 - South Bound Traffic on New Bridge

 - All traffic off of Existing Bridge

- ◎ **November 2012**

 - All Traffic in Final Pattern

- ◎ **January 2013**

 - Project Complete



I-85 YADKIN RIVER BRIDGE PROJECT



Aerial View March 2011



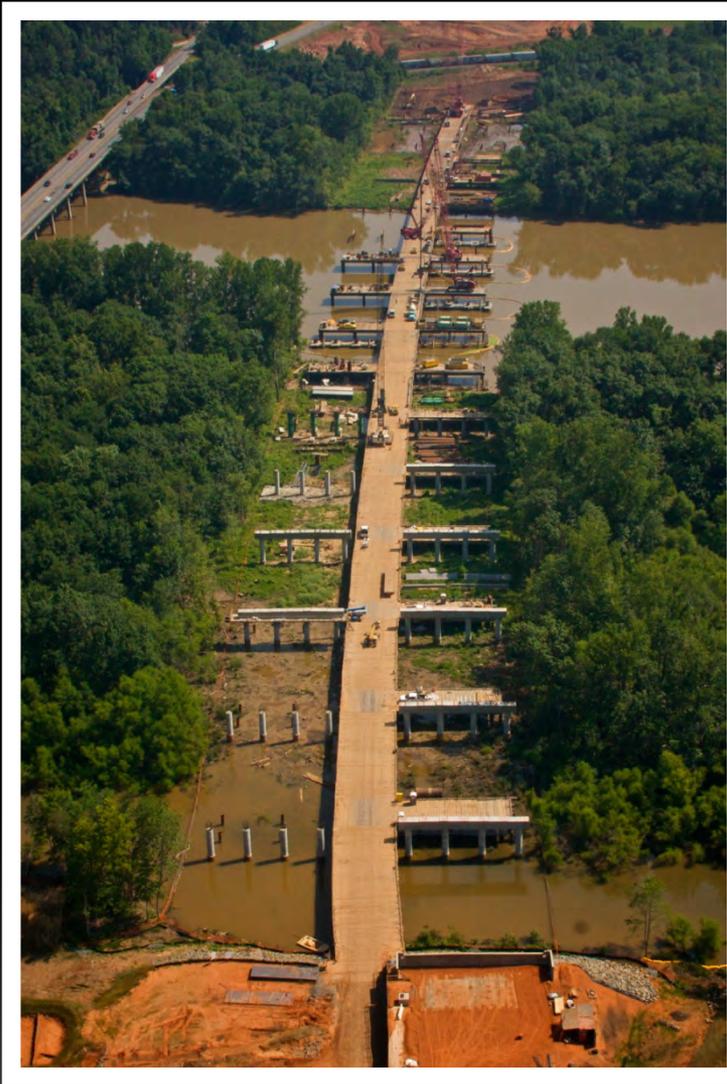
I-85 YADKIN RIVER BRIDGE PROJECT



Most Recent Aerial View (June 10, 2011)



I-85 YADKIN RIVER BRIDGE PROJECT



Most Recent Aerial View (June 10, 2011)



Follow the Construction Here

The screenshot displays the website's header with the Interstate 85 North Carolina shield logo and the text "Corridor Improvement Phase I". A navigation menu on the left includes links for "About The Project", "News & Updates", "Traffic Control", "Schedule", "Project Map", "F.A.Q.", "Newsroom", "Project Photos", "Contact Us", and "Project Team". A "Join our Update List" button is also present. The main content area features an article titled "Driving Forward" with the subtitle "North Carolina's Top Mobility Project". The article text states: "More than 60,000 cars and trucks drive on I-85 near the Yadkin River in Davidson and Rowan counties every day. That number is expected to grow to 112,000 vehicles per day by 2025. Those numbers show how critically important this stretch of interstate is not only to motorists but also to businesses that rely on this route to transport goods from point A to point B efficiently. That's why the N.C. Department of Transportation is making major improvements to I-85 in this area. By replacing eight bridges and widening more than three miles of interstate, NCDOT will reduce congestion, improve safety and ensure this vital piece of the region's transportation system meets the needs of today's traveling public. NCDOT invites you to visit this website often for the latest updates on construction work, traffic detours and project milestones." Three small images illustrate highway scenes. Social media icons for Facebook, YouTube, Twitter, and Flickr are located in the top right corner. The footer contains the text "Copyright © NCDOT".

i-85yadkinriver.com

