

*Missouri  
Department  
of Transportation*



**Paula Gough, P.E., District Engineer**

**Northeast District**  
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2007 Missouri Quality Award Winner

December 5, 2008

Mr. Joe Jones  
MoDOT Design Division  
1320 Creek Trail Dr.  
Jefferson City, MO 65109

RE: NE District Route 15 Shelby County 2009 Awards for Excellence Nomination

Dear Mr. Jones:

Enclosed please find the application form of the Northeast District nomination of 2009 Awards for Excellence for Route 15 Shelby County bridge replacement.

Even though the project had been identified as an unfunded need, the first estimate from 1999 using old design standards was more than \$1 million and included building a bypass and replacing the bridge. When the project was entered into SIMS in 2007, practical design standards called for a triple box culvert and closing the road, which is ultimately how the project was designed.

The project embraced the MoDOT values of being responsive and providing the best value on a project for the area.

Thank you for considering this project for a 2009 Award for Excellence in the small project category.

Sincerely,

Tom Batenhorst, P.E.  
District Design Engineer

# 2009 APPLICATION FORM

(required for each entry)

Complete this section for (check one):  **Small Project**  **Large Project**  
 **Post-Design Solution**  **Off System Project**

**Job No.** J3P0510 **Route** 15 **County / LPA** Shelby

**Description** (attach separate sheet if necessary) This project was a bridge replacement on Route 15 over Messner Creek. The project was designed quickly after concerns from local citizens were presented to the Commission. The bridge had originally been estimated several years before, and prior to being placed on the STIP, it had to be re-evaluated using practical design. The result was to replace the bridge with a triple box culvert and close the road.

**Project Leader** Richard Domzalski, P.E. Transportation Project Manager

**Key Team Members** (include key personnel irrespective of employer-nine individuals maximum)

Angela Talbott – d3 Design Brian Untiedt – d3 Traffic Anousone Arounpradith - Bridge

Mike Baxter – d3 Design (Utilities), Rodney Osbourne – d3 Maintenance, Lydia Brownell – d3 Materials

Macy Rodenbaugh – d3 Construction Tanya Carlisle – d3 Right of Way

Jennifer Hinson – d3 Area Engineer

## Project Budget:

**Initial Cost / Estimate** \$358,000\* **Final Cost / Award** \$298,623.68

*\*Original estimate of \$1,219,000 entered into SIMS in 2003 based on a 1999 estimate for a future unfunded project and included a bridge and bypass; reentered into SIMS in 2007 for \$358,000 which replaced bridge with triple box culvert and closing the road*

**What would make this entry stand out from the rest of the entries when considering MoDOT's practical design philosophy?** (In layman's terms - 200 words or fewer-attach separate sheet if necessary)

The reason this project is unique is because of the timeframe in which it was designed. Original estimates used design standards prior to practical design and included building a bypass to keep the road open and replacing the bridge. The bridge was narrow, and local citizens were concerned that it posed a safety hazard when vehicles met at the bridge. To be responsive to our customers and provide the best value for the dollar, the team used an accelerated schedule for designing the project and enlisted a tight timeframe to complete the construction. Using practical design and innovative thinking, the team decided to go with the box option around August/Sept '07 and submitted for the project to be put in the STIP in October '07. The project was officially added at the January Commission meeting, and the project was let in March '08. The road was closed on May 22, 2008 and opened August 2, 2008.

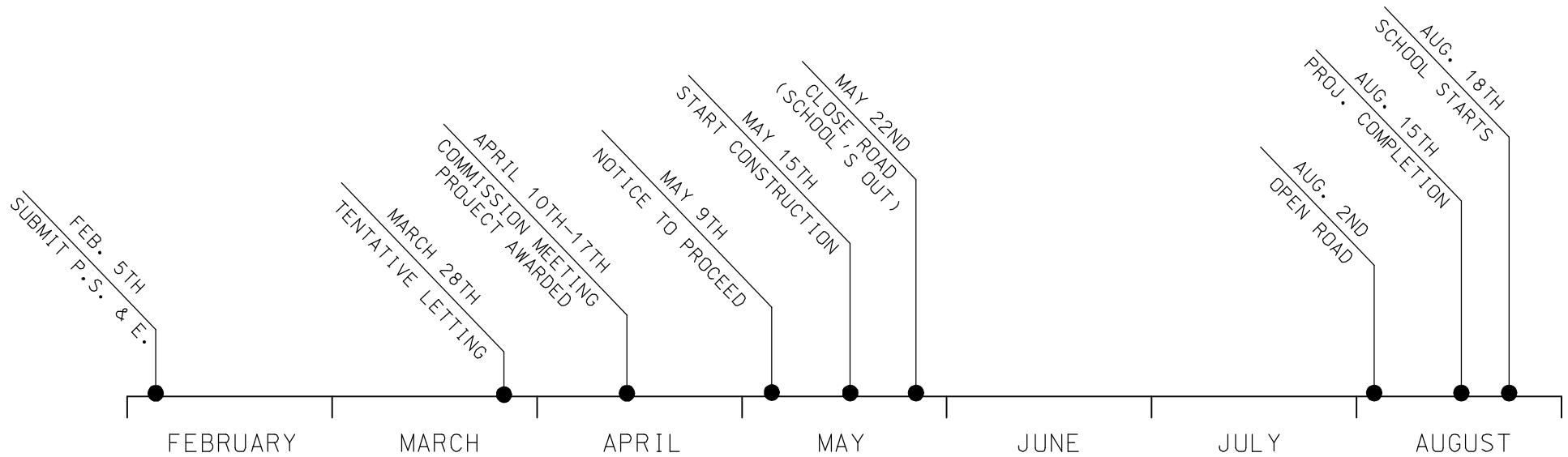


Before



After

# ESTIMATED SCHEDULE



ROUTE: 15  
JOB NO. J3P0510  
COUNTY: SHELBY  
DATE: OCT. 12, 2007