

# PROJECT SUMMARY

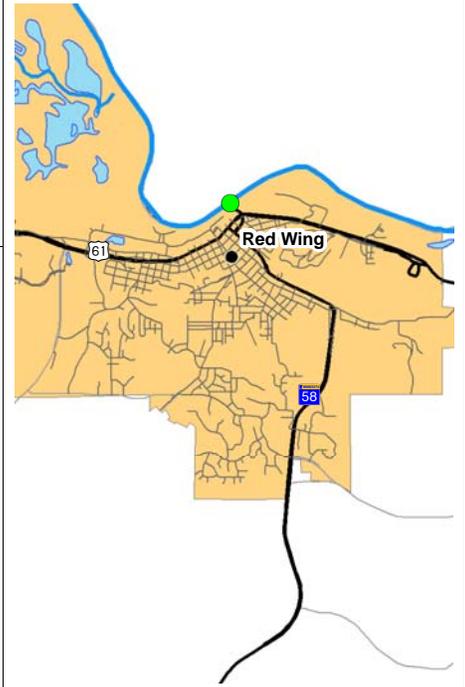
Hwy 63

Hwy 63 bridge over the Mississippi river and Hwy 61

Bridge 9040, &, 9103

State Project No. 2515-21

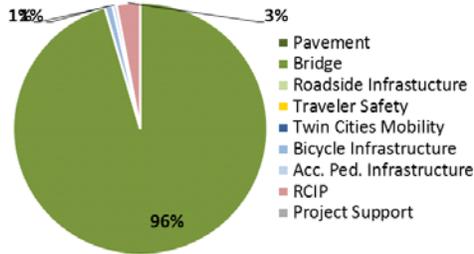
[www.dot.state.mn.us/d6/projects/redwing-bridge](http://www.dot.state.mn.us/d6/projects/redwing-bridge)



## Primary Purpose:

Performance-based Need: Bridge Condition

## Investment Category:



## Project Description:

The recommended alternative for this project is to replace both the Hwy 63 bridge over the Mississippi River and replace the Hwy 63 bridge over the Hwy 61 bridge in Red Wing. The recommended approach roadway alternative in Red Wing is the buttonhook design that will create a new signalized intersection with Hwy 61 and Hwy 63. A jughandle design will be constructed on the Wisconsin approach.

## Recent Changes and Updates

A steel box girder structure over the Mississippi river was selected as the recommended bridge type. A buttonhook approach, along with replacement of the bridge over Hwy 61, has been selected as the recommended Minnesota roadway alternative. The Visual Quality process is underway to determine the visual aspects of the bridges and the project as a whole. Construction phasing will use performance-based design and only construct a two-lane structure to meet the immediate needs for capacity while preserving the right of way for a future four-lane when it is warranted rather than with this project.

## Project History:

This river bridge is fracture critical and was put on the Chapter 152 Bridge list in 2008. The bridge over Hwy 61 is on the National Register. The original primary needs were to provide structurally sound crossings of the Mississippi River and Hwy 61; however, after significant traffic analysis, it was determined that traffic mobility in downtown Red Wing should also be a primary need.

## Total Project Cost Estimate (millions)

Date in which the project entered into the STIP: 2015

	<u>Baseline Est.</u>	<u>Current Est.</u>
Construction Letting:	\$ 80.0	\$ 55.0
Other Construction Elements:	\$ 8.0	\$ 5.0
Engineering:	\$ 10.0	\$ 8.0
Right of Way:	\$ 2.0	\$ 2.0
<b>Total:</b>	<b>\$ 100.0</b>	<b>\$ 70.0</b>

*Construction cost estimates are adjusted to the mid-year of construction, using inflation rates provided by OTSM.*

## Key Cost Estimate Assumptions:

The cost includes the Minnesota portion only. It is assumed that the steel box girder bridge will be constructed across the Mississippi River. It is also assumed that staging issues will not significantly increase costs.

MnDOT originally evaluated constructing a four lane structure to provide adequate capacity for long-term traffic growth. However, it was decided to use performance-based construction and to construct two lanes initially to provide adequate capacity for the 20 year forecast. Then MnDOT will preserve the existing right-of-way so that when traffic volumes warrant it the project will be set up to construct two additional lanes at that time. The cost savings to the project was estimated to be over \$25 million.

## Project Risks:

There is contamination on the Minnesota approach that will be impacted by construction. These properties will need to be acquired. There are poor soils on the Wisconsin approach that could increase costs. There are limited areas for staging of the project.

## Schedule:

Environmental Approval Date: 42192  
 Municipal Consent Approval Date: 07/07/2015  
 Geometric Layout Approval Date: 2015  
 Construction Limits Established Date: 07/07/2015  
 Original Letting Date: 11/01/2017  
 Current Letting Date: 2/24/2017  
 Construction Season: 2017-2020  
 Estimated Substantial Completion: 11/2020



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**Revised Date:** 12/15/2015