

Multnomah County Willamette River Bridges Capital Improvement Plan



Project Summary Information: Motor, Brake, and Electrical Power Rehabilitation; Operator House Improvements							
Bridge Names(s):	Morrison	Project ID#:	BUN-MO-01	Project Status:	In Progress		
Project Rank:	9	Primary Category of Work	Mechanical	Performance Attribute Total Score	8	Importance Score	TI-1 7.99
Logical Grouping Project ID #'s:	MO-MECH-01, MO-ELEC-01 and MO-MECH-04						
Bridge Num and Names(s):	02758 Willamette River, Morrison St (Morrison) [Morrison]						

Definition of Problem

The motors and brakes on the Morrison Bridge are over 50 years old and the expected lifespan of these components is approximately 25 years. The bridge also has waterline piping that cannot be used during the winter months due to fear of freezing. The electrical system has a number of miscellaneous repair needs, and the motor drives will be reaching the end of their service life before 2034.

Description of Proposed Solution

The proposed solution is to replace the existing motors, motor brakes and machinery brakes with new motors, brakes and machinery supports. Electrical equipment will be replaced and appropriate labeling will be installed on electrical hazards. A heat system on the existing piping systems will be installed to allow the water and sewer systems in the operator's house to be used throughout the year.

Project Justification

The benefits of the proposed solution are improved reliability and increased the service life of the brakes, motors and machinery system as a whole. Electrical maintenance helps maintain reliable operation of the bridge. Up to date drawings and documentation will assist in troubleshooting if there is a problem with the electrical system. Installation of a heat system will eliminate the maintenance cost of bringing water to the bridge during the winter months.



Right-of-Way:	\$0
Utility Reimbursement:	\$0
Construction:	\$1,099,403
Preliminary Engineering:	\$274,851
Construction Engineering:	\$274,851
Total Cost at Target Construction Time:	\$1,649,105
Target Construction Time:	2015-2019

Notes:

None entered.