

# Multnomah County Willamette River Bridges Capital Improvement Plan



## Project Summary Information: Bridge Deck / Rail / Illumination Improvements

Bridge Names(s):	Broadway	Project ID#:	BUN-BR-07	Project Status:	In Progress		
Project Rank:	16	Primary Category of Work	Driving Surface	Performance Attribute Total Score	27	Importance Score	TI-2 23.18
Logical Grouping Project ID #'s:	BR-STRUCT-01, BR-STRUCT-02, AND BR-STRUCT-03						
Bridge Num and Names(s):	06757A NW Broadway Ramp over Broadway St Conn [Broadway] ; 06757 Willamette River, Broadway St [Broadway] ; 06757 Willamette River, Broadway St [Broadway]; 06757C N Broadway St over N Interstate Ave [Broadway]						

### Definition of Problem

Portions of the Broadway Bridge deck and the on-bridge illumination systems are exhibiting signs of damage and deterioration, as identified by the Multnomah County Willamette River Bridges Capital Improvement Plan Consultant Team. The existing deck asphalt concrete overlay on the West Approach is cracking and beginning to break apart. The existing deck fiber-reinforced, polymer-concrete overlay of the Main River Spans has cracks forming along its deck panel joints. This project precedes BUN-BR-16, which was a full deck replacement project for the movable bridge spans.

### Description of Proposed Solution

Rehabilitation measures have been selected to address both the observed damage and forecasted deterioration over the next 20-years using engineering judgment. The measures recommended to address the deck deficiencies include the removal and replacement of the asphalt concrete overlay on the West Approach, and the sealing of the cracks on the Main River Spans. Rewiring and replacement of the current light standards is also recommended to address aging components of the on-bridge illumination systems.

### Project Justification

The benefit of completing the deck repairs is to arrest the degradation of the driving surface, to extend the service life of the remaining deck components, and to reduce the total expenditure for long-term deck maintenance by completing repairs before conditions deteriorate leaving a full deck replacement as the only feasible option. Illumination system repairs would provide increased safety for bridge users, allow for the installation of modern lighting components, and deter vandalism and crime.



Right-of-Way:	\$74,940
Utility Reimbursement:	\$0
Construction:	\$4,051,675
Preliminary Engineering:	\$1,001,892
Construction Engineering:	\$1,001,892
<b>Total Cost at Target Construction Time:</b>	<b>\$6,130,398</b>
<b>Target Construction Time:</b>	<b>2020-2024</b>

### Notes:

This project includes improvements for bicycle or pedestrian users.