

## Office of the City Engineer

**John C. Rooney, P.E.**

Assistant Commissioner of Public Works/  
City Engineer



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Legistar Item: 13-8989

To: Alderman Q.A. Shakoor, Chairman  
Finance and Personnel Committee

From: John C. Rooney *JCR*  
Assistant Commissioner of Public Works/City Engineer

Re: Memorial Drive Bridge – WisDOT 2013-2018 Local Bridge Program Application

We are requesting authorization to apply for the WisDOT 2013-2018 Local Bridge Program Application for the Memorial Drive Bridge.

The existing Memorial Drive Bridge is structurally deficient. The NBA deck rating does not meet the Federal standard for structural sufficiency. The existing concrete overlay is approximately 20% delaminated with regular map cracking. The overlay is 29 years old and has exceeded its useful life. The existing overlay needs to be replaced to extend the remaining life of the bridge.

In addition, concrete spalling is present at the sidewalks, underside of arch, spandrel bents, and substructure units. The spalling is primarily superficial and should be repaired to extend the life of the existing bridge elements. The use of galvanic anodes should be considered to improve the performance of concrete surface repairs.

Minor scour is observed at the pier. It should be evaluated further during the design process and mitigated if necessary since the pier is supported on a spread footing.

The Memorial Drive Bridge is not anticipated to be historic, as it is not listed on the National Register of Historic Places or on the State Historical Society Inventory. Further investigation, however, is required during the design phase.

The estimated cost of this bridge design and repair is \$522,720 with the WisDOT share of \$429,264 and the City share of \$93,456. Funding will be provided for in the 2014-2023 CIP.

If the Committee agrees, the appropriate action would be to authorize the City Engineer to sign and submit the application.