



## CITY OF LA CROSSE UTILITIES

### WATER - SEWER - STORM

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## MEMORANDUM

**To: Board of Public Works**  
**From: Bernard Lenz, Utilities Manager**  
**Date: 5-14-2019**  
**Subject: River Valley Drive Erosion**

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The water draining off River Valley Drive continues to erode the rock shoots that were installed with the road replacement. The Utility has repaired them annually since the road was built in 2016, and they are failing again. I believe a reconstruction is needed rather than another repair.

There likely is too much water in some of the shoots and/or too steep of slope in the shoots for the amount of water the road contributes and/or for the rip rap size used as erosion control. What is needed is engineering calculations and a recommendation on how to fix this problem.

The first step would be calculating the water volumes and velocities of the design storms and checking energy against erosion resistance of the current shoots. Then coming up with a plan as to what is needed to eliminate the erosion. This could be better erosion control, more shoots, or adding inlets and pipes?

Given the state of the erosion at a few of these shoots this isn't something that can wait. The erosion is cutting back to the road and then we'll have big issues if it undercuts the road.

The Utility is asking BPW to direct the Engineering Department to prioritize this engineer analysis and provide engineering recommendations on a fix within 2 week, and approve using CIP #2019-184 – "Street Best Management Practices" funds in the eventual re-construction, as the original CIP project has been closed.

