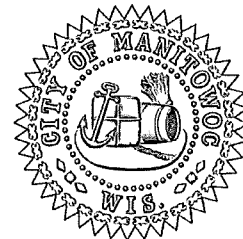




# CITY OF MANITOWOC

WISCONSIN, USA

[www.manitowoc.org](http://www.manitowoc.org)

Date: August 27, 2021

To: Public Infrastructure Committee

From: Greg Minikel, P.E., Engineering Division Manager

Re: Flooding Issues at South 29<sup>th</sup> and Mero St. (Item #21-0800)

The property owner, Mary Ann Peaslee, at 904 S. 29<sup>th</sup> St. had a flooded basement from the past rain events in July and August. In addition, Sabbatical Brewery also had damage to their property due to vehicles driving through the flooded roadway and causing waves of stormwater to run into their property.

I believe that this area has had flooding issues for quite some time.

There is one common 48-inch storm sewer pipe that runs to the east of S. 29<sup>th</sup> St. and then runs north of Franklin St. down to S. 19<sup>th</sup> St. This also known as the old Sherman Creek Storm Sewer. The existing pipe is simply overloaded. This pipe drains the area from Meadow Ln. to Custer St. and from S. 29<sup>th</sup> to about S. 35<sup>th</sup> St. There has also been historical flooding in the intersection of S. 35<sup>th</sup> and Custer St. This area also drains to S. 29<sup>th</sup> St. and ultimately the same Sherman Creek sewer.

The existing 24-inch concrete storm sewer on S. 29<sup>th</sup> St. runs from Mero St. south to DeNoyer Woodworking and then turns east and flows down an old 24-inch Corrugated Metal Pipe (CMP) with about half of the capacity of the concrete pipe. This pipe runs through private property and maybe under some buildings as well. We could or probably should reline this CMP with a cured in-place pipe (CIPP). This may cost \$15,000 to \$20,000. We could also extend the existing 24-inch concrete pipe on S. 29<sup>th</sup> St. further to the south and connect it into the 48-inch storm sewer pipe. However, the existing 24-inch pipe is about 3 feet deeper than the 48-inch pipe. This would only function as an overflow pipe and still drains to the same pipe that already has capacity issues. This may cost on the order of \$15,000 to \$20,000 as well.

There are 2 other options that would likely help the situation and are as follows:

Option #1:

Purchase the property across from the Senior Center and build a large stormwater pond to detain the stormwater from Custer St. and S. 35<sup>th</sup> St. We are installing a new pipe on Custer St. that could easily be put into this pond. See the attached map from the 2006 Stormwater Management Update. Option #1 has a very rough estimated cost of \$1,000,000.

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Option #2:

Install a new 48-inch or 54-inch storm sewer on Franklin St. from South 19<sup>th</sup> St. to west of South 26<sup>th</sup> St., but likely staying east of the railroad crossing near S. 29<sup>th</sup> St. There would still be 2 Railroad crossing that would need permits from the CN Railroad and may take 6 to 12 months to obtain. The railroad typically requires stronger pipes or casing pipes which will increase costs significantly. This is approximately 3,100 lineal feet of pipe. I would assume that this storm sewer would be installed as part of the Franklin St. reconstruction in the next several years, so that we would not have temporary pavement patching costs. Option #2 has a very rough estimated cost of \$775,000 \$1,000,000.

We could also look at hiring a consultant to evaluate both of these 2 options and come up with more detailed cost estimates.

Staff does not have a preferred recommendation at this time.