



CITY OF MANITOWOC

WISCONSIN, USA

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Date: September 24, 2021

To: Public Infrastructure Committee

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

Re: Update on Flooding Issues on S. 23rd from Division St. to Grand Ave. (Item #21-0802)

As requested by the Committee, we have done some preliminary work to look at the flooding issue on South 23rd Street.

The only other thought that I had for this area was to see if an Underground Detention System would help to alleviate flooding in this neighborhood. We could look at the Washington Middle School Football Field that is immediately east of the problem area. We do not own this land, but we can certainly work with the School and MPSD to see if this is a solution that would benefit all involved.

We could also look at installing underground detention under the existing parking lot for Municipal Field. This parking lot is currently City owned and is in pretty poor shape, so maybe underground detention could be done here in conjunction with the parking lot reconstruction.

There are three large storm sewers that all basically meet at Rubick Field, which is probably part of the problem. Therefore, the underground detention options may be the most cost-effective solution.

I reached out to Andy Block at JT Engineering about the idea of underground detention. He wrote back to me stating that they did not have anyone within their company with the expertise in the design of these systems and recommended that I contact Storm Water Solutions or another Consulting Firm. Andy reminded me that we were looking at underground detention in the Wilson Middle School (Bowl) Football Field for the Waldo Blvd. flooding issues. However, it was not the right option for that area as it was too far downstream of the problem spots. He also reminded me of the price tag for the underground detention and it was around \$1.2M.

I did not reach out to Storm Water Solutions yet, however, I did send my proposed underground detention sites to Jon Lindert at Strand Associates for them to look at. They will be working on our Stormwater Planning Grant so it made sense to have them look at this first.

My recommendation would be for the Committee to have us work more with Strand Associates and/or Storm Water Solutions to get a proposal from them for the feasibility of constructing underground detention at one or both sites. We will also need direction on the funding mechanism for this work. Does the Committee want to forward this issue to CAWG and the Finance Committee for inclusion in the 2023 budget?