

Greg Minikel

From: Greg Minikel
Sent: Monday, August 21, 2023 4:05 PM
To: Greg Minikel
Subject: FW: External: RE: Flood Study - S. 29th and Mero St. (Halvorsen Park Stormwater Pond)

From: Williams, Mike <Mike.Williams@strand.com>
Sent: Thursday, August 10, 2023 3:11 PM
To: Greg Minikel <gminikel@manitowoc.org>; Lindert, Jon <Jon.Lindert@strand.com>
Cc: Dan Koski <dkoski@manitowoc.org>; Amy Deringer <ADeringer@manitowoc.org>; Mike Zimmer <mzimmer@manitowoc.org>; Gutoski, Justin J. <Justin.Gutoski@strand.com>
Subject: External: RE: Flood Study - S. 29th and Mero St. (Halvorsen Park Stormwater Pond)

Hi Greg- I like the idea of moving ahead with the Halvorsen Park Detention Basin due to its dual purpose with water quality and quantity benefits. With a number of intertwined parts coming out of the Stormwater Hydrology and Hydraulics Study and Stormwater Quality Management Plan Update, the idea of a stormwater strategic plan to guide the City's efforts over the next 3 to 5 years comes to mind. In that regard, there are a number of grants listed below that can assist the City with implementation of what appear to be the City's top priorities: Grand Avenue Storm Sewer and Rubick Field Dry Detention Basin, Halvorsen Park Wet Detention Basin, and Custer Street Wet Detention Basin. There will be multiple FEMA and WDNR grants that the City should plan to apply for including upcoming grants in early-Spring 2024. The table at the end of this email outlines a stormwater strategic plan to provide a potential guide for the City to navigate through the grant application, design, land acquisition (if necessary), and construction process for these projects.

1. **WDNR Urban Non-Point Source (UNPS) Construction Grant Application** - This grant opportunity is available every 2 years with the next grant application deadline in April 2024. This grant will pay for **50 %** of the construction cost up to a maximum of **\$150,000**. You can also request an extra **\$50,000** for land acquisition if needed. This grant application is due in April of 2024 and the design would likely begin in January of 2025. When a project has a dual water quality and quantity function, the WDNR will only pay for the prorated cost of the pond's water quality features. In this program, design and land acquisition costs incurred prior to grant application and grant award can be funded retroactively. Reimbursement is contingent upon the City receiving all appropriate approvals and may only be reimbursed once the BMP has been installed and certified as constructed according to engineering specifications. When a project has a dual stormwater quality and quantity function, there is typically more monies available (\$484,000 vs \$150,000 or \$200,000 with land acquisition) through the WDNR Municipal Flood Control (MFC) Grant program such that a community would typically only pursue the WDNR MFC grant. The WDNR will not fund a project with both grants, so one or the other is typically applied for unless the community wants to apply for both thinking one or the other has a chance of not being funded. Our approximate fee to prepare a WDNR UNPS Construction Grant application is \$8,800.
2. **WDNR Municipal Flood Control (MFC) Grant** - This grant is an annual grant that will pay **50 %** of the construction cost up to a maximum of **\$484,000**. The grant monies can also be used for land-acquisition, if needed. This grant application is due in March of 2024 and the design would likely begin in late 2024 and be complete in 2025. See comments above regarding inability of a project to be funded by both WDNR UNPS and MFC grants.
3. **FEMA Building Resilient Infrastructure and Communities (BRIC) Capability and Capacity Grant** - Similar to the approach we took with the Grand Avenue Storm Sewer and Rubick Field Dry Detention Basin, the City could get the Halvorsen Wet Detention Basin **Design** (and Custer Street Wet Detention Basin Design in the future) funded at a cost share of **75% State and 25% City**. This grant application is due in late-2023/early-2024 and the design

would likely begin in late-2024/early-2025. As shown in the table below, construction could be funded by a WDNR MFC Grant.

All three of these grant programs could help pay for the Halvorsen Park Wet Detention Basin, the Custer Street Wet Detention Basin, or the 30th Street Wet Detention Basin Expansion . I have laid out one potential timeline for taking advantage of these grant programs as you move forward with the Halvorsen Park Detention Basin and have included budgetary costs for various grant applications and design.

- Late-2023 Prepare a FEMA BRIC Grant Application for the **Design** of the Halvorsen Park Detention Basin. Our approximate fee to prepare the BRIC Capability and Capacity Grant Application is \$13,000.
- Spring 2024 Prepare a WDNR MFC Grant Application for the **Construction** of the Halvorsen Park Detention Basin. Our approximate fee to prepare the grant application is \$13,000.
- Late-2024 Start the **Design** of the Halvorsen Park Wet Detention Basin. Our approximate fee to design the detention basin and prepare construction documents for bidding is in the range of \$115,000 to \$125,000. Please note that this fee does not include construction observation and administration, grant administration, and the geotechnical engineer will be hired directly by the City. Also, note that **75%** of the FEMA BRIC grant application cost and design cost would be covered by the FEMA BRIC grant.
- Spring 2026 Start **Construction** of the Halvorsen Park Detention Basin partially funded with WDNR MFC grant dollars.

Moving forward, we recommend reviewing the stormwater strategic plan table below and use it as a guide for taking advantage of upcoming grant opportunities for the current and upcoming priority projects. The table can be adjusted as timing and City budgets change.

Year	Grand Avenue Storm Sewer and Rubick Field Dry Detention Basin (Total Project Cost: \$8.0 million)					Halvorsen Park Wet Detention Basin (Total Project Cost: \$1.4 million)				Custer Street Wet Detention Basin (Total Project Cost: \$3.1 million + 3.23 acre Land Acquisition \$TBD*) *2022 Assessed at \$246,200/0.85586 Ratio=\$287,663*1.1=+/- \$316,500				
	FEMA BRIC Grant Application for Design	Design	FEMA BRIC Grant Application for Construction	WDNR Municipal Flood Control Grant Application for Construction	Construction	FEMA BRIC Grant Application for Design	WDNR-Municipal Flood Control Grant Application for Construction	Design	Construction	FEMA BRIC Grant Application for Design	WDNR-Municipal Flood Control Grant Application for Land Acquisition and Construction	Land Acquisition	Design	Construction
2023	X (Jan.-final)					X (Nov.-pre app)								
2024		X				X (Jan.-final)	X (March)	X						
2025			X (Jan.)					X		X (Nov.-pre app)				
2026				X (March)					X	X (Jan.-final)	X (March)		X	
2027					X						X	X		
2028														X

** For projects requiring land acquisition (Custer Street Wet Detention Basin and 30th Street Wet Detention Basin Expansion), it is recommended that the City consider "officially-mapping" these areas to preserve them for flood storage. If land acquisition can occur prior to and separate the above defined timelines, it is also recommended to do so.