



**RAMSEY-WASHINGTON**  
METRO WATERSHED DISTRICT

# **December 2021 Board Packet**

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# Agenda

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## **Regular Board Meeting Agenda**

Wednesday, December 8, 2021

6:30 PM

*Due to the COVID19 pandemic, this month's board meeting will be held via the video conferencing platform Zoom. Board members, staff, consultants, and general public will be able to join in via video and/or phone. The public that wish to will be able to listen to meeting but not participate with the exception of the visitor comments portion of the agenda. If you have comments you may speak on the Zoom meeting during the visitor comments agenda item. Instructions for joining in on the Zoom meeting can be found after the agenda.*

1. Call to Order – 6:30 PM
2. **Approval of Agenda (pg. 3)**
3. **Consent Agenda: To all be approved with one motion unless removed from consent agenda for discussion.**
  - A. Approval of Regular Meeting Minutes November 3, 2021 (pg. 7)
  - B. Treasurer's Report and Bill List (pg. 16)
  - C. Permit Program
    - i. 21-31 RWMWD 2022 CIP Maintenance and Repairs (pg. 33)
    - ii. 21-32 Rooney 2<sup>nd</sup> Addition, White Bear Lake (pg. 36)
    - iii. 21-33 Owasso Warehouse, Little Canada (pg. 40)
  - D. 2022 BMP Service Agreement – Washington Conservation District (pg. 44)
  - E. 2022 BMP Service Agreement – Ramsey County (pg. 51)
4. Visitor Comments (limited to 4 minutes each)
5. Permit Program
  - A. Applications – see consent agenda
  - B. Enforcement Action Report (pg. 59)
6. Stewardship Grant Program
  - A. Applications – NONE
  - B. Budget Status Update (pg. 62)
  - C. **2021 Program Overview and 2022 Program Review and Approval (pg. 63)**
7. Action Items
  - A. **2022 CIP Maintenance and Repair Project Bid Review and Award (pg. 92)**
  - B. **Stormwater Impact Fund Budget Transfer – Resolution 21-02 (pg. 94)**
  - C. **Capital Improvements Budget Fund Transfers – Resolution 21-03 (pg. 102)**
  - D. **2022 Budget and Levy Final Approval – Resolution 21-04 (pg. 104)**

8. Attorney Report
9. Board Issues, Policies and Operation (for discussion at meeting)
  - A. West Vadnais Lake Update
  - B. Wetland Workshop
  - C. MAWD Annual Meeting/Business Meeting
10. Presentations
  - A. Kohlman Creek & Ames Lake Flood Risk Reduction Study Updates (*pg. 108*)
11. Administrator's Report (*pg. 144*)
  - A. Meetings Attended
  - B. Upcoming Meetings and Dates
  - C. Ongoing Project/Program Updates
  - D. Final Public Art Policy
12. Project and Program Status Reports (*pg. 148*)
  - A. Interim Emergency Response Planning
  - B. Kohlman Creek Flood Risk Reduction Feasibility Study
  - C. Special Project BMP Monitoring
  - D. Kohlman Permeable Weir Test System
  - E. Shallow Lake Aeration Study
  - F. Keller Channel and Phalen Outlet Operations Plans
  - G. North St. Paul Target Store Retrofit Project
  - H. East St. Paul Target Store Retrofit Project
  - I. Targeted Retrofit Projects
  - J. Keller Channel Weir and Phalen Outlet Resiliency Modifications
  - K. Ryan Drive and Keller Parkway Conveyance Project
  - L. Twin Lake Outlet
  - M. District Inspection Standardization
  - N. CIP Maintenance and Repair Project 2021
  - O. CIP Maintenance and Repair Project 2022
  - P. Natural Resources Program Update
  - Q. Education Program Update
  - R. Communications Program and Website Update
13. Manager Comments and Next Month's Meeting
14. **Adjourn**





# RAMSEY-WASHINGTON

## METRO WATERSHED DISTRICT

### **NOTICE OF BOARD MEETING**

### **Wednesday, December 8, 2021**

### **6:30 PM**

### **Via Web Conference and In Lieu of an In-Person Meeting**

Per Minnesota Statute 13D.021, President Lawrence Swope has determined that an in-person meeting of the RWMWD Board of Managers is not practical or prudent given the COVID-19 pandemic. In compliance with Center for Disease Control and Minnesota Department of Health guidance on minimizing potential for spread of the virus, RWMWD will conduct its regular Wednesday, December 8, 2021, meeting at 6:30 p.m. CDT, by web conference and conference call. Members of the public wishing to participate in the meeting may do so by accessing the web-based conference, or by phone. Due to the current health pandemic, President Swope has determined that attendance at the regular meeting location by members of the public is not prudent, and that the physical presence at the regular meeting location by at least one member of the organization is also not feasible.

To access the meeting via webcast, please use this link: <https://us02web.zoom.us/j/84856139189?pwd=b2RaaDJ3MmVVSDk5dVIEbE1xcDMvZz09>

The meeting room will open at 6:20 pm with the meeting starting at 6:30 pm. To connect to audio you may choose to use your computer audio options or you may use your mobile device to call. The phone access number is **(312) 626-6799**. The Meeting ID is **848 5613 9189**. The meeting password is **686910**. If you have any questions, please contact Tina Carstens at [tina.carstens@rwmwd.org](mailto:tina.carstens@rwmwd.org).

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# Consent Agenda

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**Ramsey-Washington Metro Watershed District  
Minutes of Regular Board Meeting  
November 3, 2021**

The Regular Meeting of November 3, 2021, was held via Zoom web conferencing. A video recording of the meeting can be found at <https://youtu.be/VrG4VdsI4mc>. Video time stamps included after each agenda item in minutes.

**PRESENT:**

Larry Swope, President  
Cliff Aichinger, Vice President  
Dr. Pam Skinner, Secretary  
Val Eisele, Manager

**ABSENT:**

Dianne Ward, Treasurer

**ALSO PRESENT:**

Tina Carstens, District Administrator  
Tracey Galowitz, Attorney for District  
Nicole Soderholm, Permit Inspector  
Bill Bartodziej, Natural Resource Specialist  
Lauren Hazenson, Communications Coordinator  
Jonathan Hash, St Paul Media

Paige Ahlborg, Project Manager  
Brad Lindaman, Barr Engineering  
Simba Blood, Natural Resources Specialist  
Dave Vlasin, Project Coordinator  
Erin Anderson Wenz, Barr Engineering  
John Bilotta, Stormwater Research Council

**1. CALL TO ORDER**

The meeting was called to order by President Swope at 6:30 p.m.

**2. APPROVAL OF AGENDA (00:24)**

Motion: Manager Aichinger moved, Manager Skinner seconded, to approve the agenda as presented.

A roll call vote was performed:

Manager Aichinger	aye
Manager Skinner	aye
Manager Eisele	aye
President Swope	aye

Motion carried unanimously.

**3. CONSENT AGENDA (00:45)**

A. Approval of Minutes from October 6, 2021

B. Treasurer's Report and Bill List

C. Permit Program

i. 21-30 – Roseville High School Baseball Field, Roseville

D. Stewardship Grant Program

i. 21-38 CS – Highland Townhomes, Native Habitat Restoration

ii. 21-39 CS – Washington County Community Development Agency, Native Habitat Restoration

- E. Keller Channel Weir and Phalen Outlet Project – Change Order No. 7
- F. North St. Paul Target Store Retrofit – Change Order No. 4

Motion: Manager Eisele moved, Manager Skinner seconded, to approve the consent agenda as presented.

A roll call vote was performed:

Manager Aichinger	aye
Manager Skinner	aye
Manager Eisele	aye
President Swope	aye

Motion carried unanimously.

#### **4. VISITOR COMMENTS (1:20)**

There were none.

#### **5. PERMIT PROGRAM (1:30)**

##### **A. Applications – See Consent Agenda**

##### **B. Monthly Enforcement Report**

During October, nine notices were sent to address: install/maintain inlet protection (1), install/maintain perimeter control (2), sweep streets (1), stabilize exposed soils (1), contain liquid/solid waste materials (2), and remove discharged sediment (2).

Manager Aichinger commented that he has noticed that the Maplewood Middle School project site has been very clean.

President Swope asked how often the 48-hour rain inspections are completed. Nicole Soderholm provided additional details on when those inspections are completed.

#### **6. STEWARDSHIP GRANT PROGRAM (3:06)**

##### **A. Applications – See Consent Agenda**

##### **B. Budget Status Update**

Manager Aichinger commented that it seems they received lower requests this year. Paige Ahlborg confirmed that the numbers are lower this year compared to last year. She stated that it was a drier year and therefore people are not thinking about things like rain gardens and the requests focused on native habitat plantings. She stated that they also did not see large city projects come in, recognizing that cities may have a focus on COVID-related funding. She stated that she had two large requests, each of about \$100,000, that had a goal of starting this year but commented that those may be delayed to next year.

#### **7. ACTION ITEMS (4:52)**

##### **A. 2022 CIP Maintenance and Repair Project Approval of Plans and Authorization to Advertise for Bid**

Erin Anderson Wenz stated that this set of projects is pretty representative of the projects they see from year to year.

Manager Aichinger commented that it seemed the first three projects had been completed recently. Dave Vlasin commented that those projects are completed almost every year. He noted that inspections are done each year to determine if maintenance is needed.

Erin Anderson Wenz provided a summary of the different projects included in the list.

Manager Aichinger referenced site six and wondered why that is not abandoned as that was a research site. Erin Anderson Wenz commented that it is a good research site and an opportunity to test another filter media.

Manager Aichinger referenced site seven and commented that does not seem to be a District responsibility. Tina Carstens stated that the County asked if the District could help facilitate the project, similar to the pond cleanout program. She confirmed that the District would be reimbursed for the work.

Erin Anderson Wenz and staff continued to provide details on the proposed projects.

Manager Eisele asked when the rate of occurrence or need for maintenance reaches a point when the Board should take different action. Tina Carstens stated that is always a consideration when staff completes inspections. She stated that if staff felt that changes would reduce the frequency of maintenance, it would be brought to the Board.

President Swope asked if the new maintenance system ranking would help to identify projects that need attention above the CIP program. Erin Anderson Wenz agreed that the intention would be to identify that as well as identifying other larger projects. She noted that they would use the ranking system on the activity from the previous years.

Dave Vlasin noted that some of the larger projects will be reimbursed. Tina Carstens estimated that about \$300,000 would be reimbursed.

Motion: Manager Eisele moved, Manager Aichinger seconded, to approve the preliminary design, estimated costs, and proposed project schedule and direct staff to finalize the design and bidding documents and advertise the project for bid.

A roll call vote was performed:

Manager Aichinger	aye
Manager Eisele	aye
Manager Skinner	aye
President Swope	aye

Motion carried.

B. District Art Policy

Manager Aichinger referenced the language proposed in the fifth bullet. He noted that artists are not typically rich people and there would be a number of situations where funds would be needed to get materials and get started. He suggested alternative language that would allow for a request for a portion of the funds to be advanced prior to the project beginning. Tina Carstens commented that she would be okay with that language change.

President Swope asked if it could be included to state where the other 50 percent of funding is coming from.

Manager Aichinger stated that there will be some projects that exceed the 50 percent funding and that is where is he believes this would be appropriate. Tracey Galowitz stated that she is not worried about the exposure for the District in the respect this language is proposed.

Manager Aichinger stated that the District has had positive experience with the artists they have worked with, and this would provide another tool for consideration.

Manager Skinner agreed with the proposed language change.

President Swope confirmed the consensus of the Board to use the language suggested by Manager Aichinger.

Motion: Manager Aichinger moved, Manager Skinner seconded, to adopt the Public Art Policy as amended to include the language suggested by Manager Aichinger.

A roll call vote was performed:

Manager Aichinger	aye
Manager Eisele	aye
Manager Skinner	aye
President Swope	aye

Motion carried unanimously.

#### **8. ATTORNEY REPORT (23:17)**

Tracey Galowitz had nothing further to report.

#### **9. BOARD ISSUES, POLICIES, AND OPERATION (FOR DISCUSSION AT MEETING) (24:20)**

##### **A. Wetlands Workshop Follow-Up**

President Swope commented that the Board held an excellent workshop a few days ago. He welcomed any preliminary thoughts the Board may have as a result of the workshop.

Manager Eisele commented that he found the meeting very informative. He commented that there is a mountain of work that previous groups have already done, and it would be wonderful to see how that information could be used going forward.

Manager Aichinger commented that the earlier data, prior to 2005, was a big input to the Comprehensive Plan and new rules of the District. He stated that perhaps there is documentation that would satisfy the concern of Manager Eisele. Tina Carstens noted that in January staff would really begin to move on the discussions that came out of the workshop. She stated that she can provide the background information to Manager Eisele.

##### **B. West Vadnais Lake Follow-Up**

Tina Carstens confirmed that she reached out to the Administrator for that organization, but they were unable to attend the November meeting. She stated that they are attempting to schedule for December but could not guarantee that attendance.

#### **10. PRESENTATIONS (30:00)**

##### **A. Minnesota Stormwater Research Council Update – John Bilotta**

John Bilotta extended thanks from the Minnesota Stormwater Research Council to the District for the continued support in the program. He stated that this year they completed 15 of the 23 projects that they have invested in since their work began. He identified four additional projects that would be completed by the end of 2021 and five additional projects that will continue into 2022. He stated that project impact statements were requested and provided for the different projects, explaining the impact that the project results would have. He reviewed details on the stormwater pond research strategy. He noted that they will continue to do monthly seminar series through at least June of 2023. He stated that on average they have had 130 people join their monthly seminars. He stated that he is working to develop the next competitive research cycle which will come out in January of 2022 and is

when they will review the list of projects they will work on for the next two to three years. He provided details on the new Extension Educator that has joined their team. He provided details on the research program funding that has been received, noting that their goal this year is to pool together \$175,000 for 2021 from the different sources. He estimated that they are about two thirds of the way to reaching that goal. He presented a request for the District to continue to stay involved and contribute to the Council. He believed that the work they are doing would continue to provide benefit to districts and contractors as well.

Manager Aichinger thanked Mr. Bilotta for the leadership he provides and the work the organization does.

Mr. Bilotta commented that they do have another great leveraging opportunity with the Center for Water Protection. He stated that they are trying to use their resources to leverage additional funding and expertise to provide the answers for stormwater management.

President Swope stated that he likes that there is always a practical outcome in mind rather than research for the purpose of research.

Manager Aichinger commented that there is also a strong focus on technology transfer in order to share the information.

President Swope thanked Mr. Bilotta for his presentation.

**B. District Website Update – Executive Recommendations**

Lauren Hazenson stated that Jonathan Hash from St. Paul Media is present tonight to provide an update on the website update. She stated that the executive recommendations and proposed scope of work for the website design were included in the Board packet for consideration. She provided clarification on the land acknowledgement statement, which was requested by staff.

President Swope noted that would be a separate discussion the Board would need to have and would not be related to the website.

Jonathan Hash provided an update on the website update process noting that they finished the research portion of the process. He stated that while they are still working to compile the report, he has provided an executive recommendation report and was curious to hear the input from the Board. He reviewed the different recommendations within that report and the input they received requesting those features.

Manager Eisele asked if the recommendations are listed in order of underlying priority.

Lauren Hazenson stated that these recommendations are based on trends and recommendations from the consultant, and were reviewed by staff before distribution to the Board.

Jonathan Hash stated that they are entering the user experience phase of the process. He stated that a lot of the information that will be within the report will most likely not be a surprise to the Board as many of the items are the reason the update was requested.

Lauren Hazenson provided examples of the different personas they developed during this phase for testing.

Manager Eisele stated that he would like to see how things are prioritized based off the different personas.

Jonathan Hash reviewed the deliverables that will be provided and the usability testing that will be conducted.

Tina Carstens noted that the items marked as pending Board approval were not included in the original scope but are recommended and she believed could be accomplished within the budget for the website development.

Manager Aichinger asked the primary benefit of using the testing approach.

Lauren Hazenson stated that in the initial stakeholder interviews there was concern with the design matching the intended audience. She stated that the testing would ensure that the desired audience would be able to find the content they would be looking for. She also discussed the advantage to having content mitigation and population which would provide efficiency and would not take away from the regular duties of staff.

Jonathan Hash noted that the prototype training would be training District staff on how to populate the content as well, as continued information will need to be updated on the website.

President Swope commented that he agrees it would make sense to have the consultant migrate the information. He also believed that there is benefit to having the usability testing to ensure the general public can find the information they are looking for.

Manager Eisele stated that his company also completes usability testing and agreed that it is a good investment.

Lauren Hazenson highlighted some of the executive recommendations such as a simplified event calendar, mapping system, along with a volunteer and/or engagement section. She stated that she has been connecting with staff at member cities in order to build relationships, acknowledging that the first point of contact is often at a city or county prior to the District.

Jonathan Hash and Lauren Hazenson continued to review the executive recommendations and the input received from stakeholders that support those recommendations.

Tina Carstens commented that staff believes that these recommendations cover the wants and needs identified for the website.

President Swope agreed that these recommendations answer the concerns that he had. He asked if there is prioritization or how these would be tackled. Tina Carstens replied that a prioritization would be developed based on the different user personas.

Lauren Hazenson stated that some of the needs will overlap for the different user personas. She stated that the overall goal is to make the website easy to navigate and find the information one is looking for.

C. Emergency Response Plans: Kohlman Creek and Ames Lake Flood Risk Reduction Study Updates

Erin Anderson Wenz stated that the purpose tonight is to discuss the RWMWD Emergency Response Plans, Kohlman Creek Subwatershed Flood Risk Reduction Study and Ames Lake Area Flood Risk Reduction Study. She stated that in 2013 there was an update as to how to design flood risk reduction projects, using Atlas 14. She noted that the District was one of the first to bring its modeling up to the Atlas 14 numbers. She provided additional background information including the development of the Beltline Resiliency Study which broke the area up into five phases. She stated that an important focus of 2020 and 2021 was to survey and verify the topographic surveys in order to confirm low entry elevations. She noted that updates were then made to the tables of potentially flood prone structures in the Kohlman Creek, Willow Creek and Phalen Chain of Lakes subwatersheds.

Manager Aichinger asked if the necessary information for the parcels that access was not granted can be gained from adjacent lots using the laser technology. Erin Anderson Wenz confirmed that staff was able to do that for some properties but not all properties on which the homeowner did not want to give permission for staff to be on the property.



Manager Aichinger referenced the area south of Ames Lake and commented that it would seem there should be a way to prevent water from getting into that area which would eliminate a number of homes from the list. Erin Anderson Wenz stated that the solutions so far are pretty extreme because there is a lot of water. She stated that they continue to look at alternatives to provide a range of options. She stated that this area is tough because it is pretty shallow, so the water gets in and nothing else on the surface can get into those area. She stated that sometimes the problems causing the flooding issues are significant. She stated that it will be important to review a number of solutions with the Board and then discuss those with the city, as city cooperation and funding would also be necessary.

Manager Aichinger noted that many of those issues were caused by development 50 years ago when this type of runoff was not anticipated. He stated that it is difficult for entities to acknowledge is a mistake was made.

Manager Eisele referenced information that was included in the August board packet related to flood targets and the tool that was developed and stated that it would be great to see use of that tool with this information.

Erin Anderson Wenz stated that the map was updated, removing the homes that were able to be removed through the survey work. She highlighted the other updates that were made to the mapping through this process. She reviewed system modifications considered and evaluated. She provided different examples of system modifications currently being considered and evaluated.

Manager Eisele asked if it could also be shown what would be needed to completely remove the inundation area.

Erin Anderson Wenz provided an example of an emergency response plan and what would be needed to protect a residential facility. She noted that it has been helpful to show what would be needed to the cities in order to have those discussions. She stated that all the emergency response plans, once completed, will be provided to the cities.

Manager Aichinger stated that in the past the District has volunteered to assist the cities with some of the resources necessary to follow through on those plans. Erin Anderson Wenz stated that assistance is also provided as to when the plans should be enacted. She stated that this process should also include a discussion as to the level of assistance the District should have. It was noted that the plans that have been provided to cities have not been adopted by their City Councils.

Manager Aichinger asked what liability the District would have if those plans were provided to the cities and the cities chose not to adopt the plans. Tracey Galowitz commented that once the District tells the cities what needs to be done, that falls onto the city. She stated that liability for the District would fall on the District only if the District has information and then chooses not to share that or if the District does not follow its steps and process.

Tina Carstens stated that the District provides the plans and then it is up to the city as to whether they want to follow that plan.

President Swope asked if the solution takes into account how long an area would be inundated. Erin Anderson Wenz stated that would come into play with the mechanical options. She stated that they review a range of small and large options. She noted that timing is also considered when reviewing areas that are tough to pull out of the floodplain. She confirmed that there are times when sandbags would be appropriate and times when that would not be a feasible option.

## **11. ADMINISTRATOR'S REPORT (2:24:56)**

### **A. Meetings Attended**

No comments.

**B. Upcoming Meetings and Dates**

Tina Carstens noted the upcoming Watershed Excellence Awards dinner that will be held on November 18<sup>th</sup>.

**C. Ongoing Project/Program Updates**

Tina Carstens stated that the Victoria Shores EAW comment letter was emailed to the Board and welcomed any comments or questions before she sends the letter to the city.

**D. MS4 Permit Issuance**

Tina Carstens stated that the new MS4 Permit has been issued for the District.

**E. Daylighting Phalen Creek Update**

Tina Carstens noted that the update was provided in the packet for informational purposes.

President Swope asked the level of involvement the District would have in the daylighting project. Tina Carstens stated that generous funding was received for the project and therefore she believed that in-kind support would be provided through the design process. She noted that St. Paul has stated that they would like assistance with the maintenance for that stretch of the creek.

Paige Ahlborg stated that there is a tentative public meeting scheduled for November 17<sup>th</sup> on the project.

Manager Aichinger commented that he is not a strong proponent of this project as it is a very short “token” stream restoration that he did not believe would provide much education or indication of what used to be there. He commented that a lot of money will be spent on a short channel that will struggle to hold water during dry times. He did not want the District to contribute a lot of funding for the project. Tina Carstens stated that she did not see it being a large commitment of staff time or funding from the District. She confirmed that it is not a high priority for the District.

President Swope commented that he shares the reservations of Manager Aichinger.

**12. PROJECT AND PROGRAM STATUS REPORTS (2:32:38)**

**A. Ongoing Project and Program Updates**

- i. Interim Emergency Response Planning
- ii. Kohlman Creek Flood Risk Reduction Feasibility Study
- iii. Ames Lake Area Flood Risk Reduction Feasibility Study
- iv. Special Project BMP Monitoring
- v. Kohlman Permeable Weir Test System
- vi. Shallow Lake Aeration Study
- vii. Keller Channel and Phalen Outlet Operations Plans
- viii. North St. Paul Target Store Stormwater Retrofit Projects
- ix. Targeted Retrofit Projects
- x. Keller Channel Weir and Phalen Outlet Resiliency Modifications
- xi. Ryan Drive and Keller Parkway Conveyance Project
- xii. District Inspection Standardization
- xiii. County Road D Ravine
- xiv. CIP Maintenance and Repair Project 2021
- xv. CIP Maintenance and Repair Project 2022
- xvi. New Technology Review: Clean Beach System
- xvii. Natural Resources Program Update
- xviii. Education Program Update

- xix. Communications Program and Website Update
- xx. Citizen Advisory Committee Update

Manager Eisele stated that he does have some questions but believed those could be answered through email outside of the meeting.

**13. MANAGER COMMENTS AND NEXT MONTH'S MEETING (2:33:20)**

President Swope commented that he attended the two-day water conference hosted by the University of Minnesota and found it quite interesting.

Tina Carstens highlighted items that will appear on the December agenda.

**14. ADJOURN**

The meeting was adjourned at 9:05 p.m.

DRAFT

## RWMWD BUDGET STATUS REPORT

## Administrative &amp; Program Budget

Fiscal Year 2021

11/30/2021

Budget Category	Budget Item	Account Number	Original Budget	Budget Transfers	Current Month Expenses	Year-to-Date Expenses	Current Budget Balance	Percent of Budget
Manager	Per diems	4355	\$8,500.00	-	-	2,825.00	\$5,675.00	33.24%
	Manager expenses	4360	3,500.00	-	-	-	3,500.00	0.00%
Committees	Committee/Bd Mtg. Exp.	4365	3,500.00	-	259.00	3,428.84	71.16	97.97%
	<b>Sub-Total: Managers/Committees:</b>		<b>\$15,500.00</b>	<b>\$0.00</b>	<b>\$259.00</b>	<b>\$6,253.84</b>	<b>\$9,246.16</b>	<b>40.35%</b>
Employees	Staff salary/taxes/benefits	4010	1,520,000.00	-	117,999.06	1,458,600.07	61,399.93	95.96%
	Employee expenses	4020	15,000.00	-	718.27	6,529.36	8,470.64	43.53%
	District training & education	4350	75,000.00	-	4,246.82	14,239.70	60,760.30	18.99%
	<b>Sub-Total: Employees:</b>		<b>\$1,610,000.00</b>	<b>\$0.00</b>	<b>\$122,964.15</b>	<b>\$1,479,369.13</b>	<b>\$130,630.87</b>	<b>91.89%</b>
Administration/ Office	GIS system maint. & equip.	4170	10,000.00	-	-	1,687.02	8,312.98	16.87%
	Data Base/GIS Maintenance	4171	40,000.00	-	3,770.00	3,770.00	36,230.00	9.43%
	Equipment maintenance	4305	3,000.00	-	-	-	3,000.00	0.00%
	Telephone	4310	8,000.00	-	59.34	639.72	7,360.28	8.00%
	Office supplies	4320	7,000.00	-	244.20	3,908.86	3,091.14	55.84%
	IT/Internet/Web Site/Software Lic.	4325	70,000.00	-	5,174.68	58,353.70	11,646.30	83.36%
	Postage	4330	3,000.00	-	287.10	2,173.69	826.31	72.46%
	Printing/copying	4335	8,000.00	-	294.00	4,364.40	3,635.60	54.56%
	Dues & publications	4338	11,000.00	-	115.00	11,567.63	(567.63)	105.16%
	Janitorial/Trash Service	4341	15,000.00	-	550.00	9,855.08	5,144.92	65.70%
	Utilities/Bldg. Contracts	4342	30,000.00	-	764.63	10,717.60	19,282.40	35.73%
	Bldg/Site Maintenance	4343	150,000.00	-	330.00	33,077.71	116,922.29	22.05%
	Miscellaneous	4390	5,000.00	-	-	-	5,000.00	0.00%
	Insurance	4480	50,000.00	-	-	44,642.00	5,358.00	89.28%
	Office equipment	4703	150,000.00	-	183.38	141,917.07	8,082.93	94.61%
	Vehicle lease, maintenance	4810-40	43,000.00	-	2,169.04	6,196.36	36,803.64	14.41%
	<b>Sub-Total: Administration/Office:</b>		<b>\$603,000.00</b>	<b>\$0.00</b>	<b>\$13,941.37</b>	<b>\$332,870.84</b>	<b>\$270,129.16</b>	<b>55.20%</b>
Consultants/ Outside Services	Auditor/Accounting	4110	65,000.00	-	2,190.54	49,447.48	15,552.52	76.07%
	Engineering-administration	4121	93,000.00	-	7,408.50	63,887.50	29,112.50	68.70%
	Engineering-permit I&E	4122	10,000.00	-	60.00	2,918.40	7,081.60	29.18%
	Engineering-eng. review	4123	55,000.00	-	4,488.00	41,877.00	13,123.00	76.14%
	Engineering-permit review	4124	55,000.00	-	4,390.00	41,707.00	13,293.00	75.83%
	Project Feasibility Studies	4129	440,000.00	-	33,951.46	199,910.95	240,089.05	45.43%
	Attorney-permits	4130	10,000.00	-	-	-	10,000.00	0.00%
	Attorney-general	4131	40,000.00	-	1,589.00	25,966.85	14,033.15	64.92%
	Outside Consulting Services	4160	20,000.00	-	-	-	20,000.00	0.00%
	<b>Sub-Total: Consultants/Outside Services:</b>		<b>\$788,000.00</b>	<b>\$0.00</b>	<b>\$54,077.50</b>	<b>\$425,715.18</b>	<b>\$362,284.82</b>	<b>54.02%</b>
Programs	Educational programming	4370	60,000.00	-	5,666.25	21,466.98	38,533.02	35.78%
	Communications & Marketing	4371	25,000.00	-	1,885.74	24,088.09	911.91	96.35%
	Events	4372	50,000.00	-	2,050.59	36,525.27	13,474.73	73.05%
	Water QM-Engineering	4520-30	180,000.00	-	51,229.83	167,725.97	12,274.03	93.18%
	Project operations	4650	200,000.00	-	1,577.80	65,956.56	134,043.44	32.98%
	SLMP/TMDL Studies	4661	103,000.00	-	680.00	14,182.50	88,817.50	13.77%
	Natural Resources/Keller Creek	4670-72	140,000.00	-	203.55	95,744.62	44,255.38	68.39%
	Outside Prog.Support/Weed Mgmt.	4683-84	127,000.00	-	-	23,775.00	103,225.00	18.72%
	Research Projects	4695	95,000.00	-	27,660.10	88,728.55	6,271.45	93.40%
	Health and Safety Program	4697	3,000.00	-	14.35	987.89	2,012.11	32.93%
	<b>Sub-Total: Programs:</b>		<b>\$983,000.00</b>	<b>\$0.00</b>	<b>\$90,968.21</b>	<b>\$539,181.43</b>	<b>\$443,818.57</b>	<b>54.85%</b>
<b>GENERAL FUND TOTAL</b>			<b>\$3,999,500.00</b>	<b>\$0.00</b>	<b>\$282,210.23</b>	<b>\$2,783,390.42</b>	<b>\$1,216,109.58</b>	<b>69.59%</b>
CIP's	CIP Project Repair & Maintenance	516	1,325,000.00	-	263,201.26	1,075,458.16	249,541.84	81.17%
	Targeted Retrofit Projects	518	2,810,000.00	-	11,341.60	959,369.14	1,850,630.86	34.14%
	Flood Risk Reduction Fund	520	4,200,000.00	-	160,607.03	1,797,998.90	2,402,001.10	42.81%
	Debt Services-96-97 Beltline/MM/Battle Creek	526	394,901.00	-	-	397,795.30	(2,894.30)	100.73%
	Stewardship Grant Program Fund	529	1,000,000.00	-	34,600.05	471,489.11	528,510.89	47.15%
	Wetland Restoration Projects	540	500,000.00	-	-	-	500,000.00	0.00%
	Wakefield Park Project	553	-	-	-	5,128.50	(5,128.50)	---
	District Office Bond Payment	585	194,885.00	-	-	-	194,885.00	0.00%
<b>CIP BUDGET TOTAL</b>			<b>\$10,424,786.00</b>	<b>-</b>	<b>\$469,749.94</b>	<b>\$4,707,239.11</b>	<b>\$5,717,546.89</b>	<b>45.15%</b>
<b>TOTAL BUDGET</b>			<b>\$14,424,286.00</b>	<b>\$0.00</b>	<b>\$751,960.17</b>	<b>\$7,490,629.53</b>	<b>\$6,933,656.47</b>	<b>51.93%</b>

## Current Fund Balances:

Fund:	Beginning Fund Balance @ 12/31/20	Fund Transfers	Year to date Revenue	Current Month Expenses	Year to Date Expense	Fund Balance @ 11/30/21
101 - General Fund	\$4,364,963.52	-	1,251,370.64	282,210.23	2,783,390.42	2,832,943.74
516 - CIP Project Repair & Maintenance	627,656.44	-	488,959.22	263,201.26	1,075,458.16	41,157.50
518 - Targeted Retrofit Projects	1,012,501.35	-	177,647.06	11,341.60	959,369.14	230,779.27
520 - Flood Damage Reduction Fund	3,312,849.57	-	1,044,205.61	160,607.03	1,797,998.90	2,559,056.28
526 - Debt Services-96-97 Beltline/MM/Beltline-Battle Creek Tunnel Repair	949,395.60	-	48,379.22	-	397,795.30	599,979.52
529 - Stewardship Grant Program Fund	622,020.57	-	367,152.98	34,600.05	471,489.11	517,684.44
540 - Wetland Restoration Projects	-	-	262,252.13	-	-	262,252.13
553 - Wakefield Park Project	151,270.20	-	-	-	5,128.50	146,141.70
580 - Contingency Fund	891,682.00	-	-	-	-	891,682.00
585 - Certificates of Participation	204,397.98	-	102,218.00	-	-	306,615.98
<b>Total District Fund Balance</b>	<b>\$12,136,737.23</b>	<b>\$0.00</b>	<b>\$ 3,742,184.86</b>	<b>\$ 751,960.17</b>	<b>\$7,490,629.53</b>	<b>\$8,388,292.56</b>

**Ramsey Washington Metro Watershed Dist.**  
**Check Register**  
**For the Period From Nov 1, 2021 to Nov 30, 2021**

Check #	Date	Payee ID	Invoice #	Payee	Description	Amount
EFT	11/01/21	met008	Nov 2021	MetLife-Group Benefits	Employee Benefits	\$1,616.96
EFT	11/01/21	aws001	Nov 2021	AWS Service Center	Utilities/Bldg. Contracts	269.11
EFT	11/01/21	hom001	Nov 2021	Home Depot Credit Services	Natural Resources/Water QM	207.22
EFT	11/09/21	hea002	Nov 2021	HealthPartners	Employee Benefits	11,910.12
72608	11/02/21	kub001	Nov 2021	Kyle W. Kubitz	Employee Reimbursement	122.92
72609	11/30/21	adr001	21-34 CS	Jennifer Adrian	Stewardship Grant Fund	7,700.00
72610	11/30/21	and005	21-02 MTN	Michele Anderson	Stewardship Grant Fund	182.67
72611	11/30/21	app003	19-01 MTN	Applewood Pointe of Shoreview Sr.Co-Op	Stewardship Grant Fund	947.50
72612	11/30/21	att002	X11252021	AT & T Mobility - ROC	IT/Website/Water QM/Proj. Oper.	166.34
72613	11/30/21	bar001	10/16-11/19/21	Barr Engineering	October/November Engineering	159,049.68
72614	11/30/21	ber006	20-18 CS	Janet Berryhill	Stewardship Grant Fund	195.06
72615	11/30/21	blo001	Nov 2021	Simba Blood	Employee Reimbursement	345.86
72616	11/30/21	bur002	11/01/21	Tom Burns Consulting, LLC	Data Base/GIS Maintenance	3,770.00
72617	11/30/21	cad001	1785194	Allstream	Water QM Staff	73.42
72618	11/30/21	car003	2021	Tina Carstens	Employee Reimbursement	805.80
72619	11/30/21	che001	18-11 MTN	Cherokee Hills Association No. II	Stewardship Grant Fund	1,000.00
72620	11/30/21	che002	18-10 MTN	Cherokee Hills Association No. I	Stewardship Grant Fund	1,000.00
72621	11/30/21	chi002	19-05 MTN	Linda Chimzar	Stewardship Grant Fund	141.17
72622	11/30/21	cit011	230498	City of Roseville	IT/Website/Software	5,026.78
72623	11/30/21	com004	11/16/21	Comcast	Utilities/Bldg. Contracts	79.07
72624	11/30/21	com005	20-26	CommonBond Communities	Dev. Escrow-General	9,535.00
72625	11/30/21	cro001	Oct 2021	Nutrien Ag Solutions, Inc.	Stewardship Grant Fund	124.02
72626	11/30/21	dav003	125781	Davey Resource Group, Inc.	Construction Imp.-Maint. & Rep.	630.00
72627	11/30/21	daw001	20-16 MTN	Linda Dawson	Stewardship Grant Fund	200.00
72628	11/30/21	deu001	21-31 CS	Thomas Deuring	Stewardship Grant Fund	800.32
72629	11/30/21	dvs001	00-028605622	DVS Renewal	Vehicle Maintenance-General	23.25
72630	11/30/21	fin002	20-15 MTN	Hallie Finucane	Stewardship Grant Fund	100.00
72631	11/30/21	fit001	Pay #2	Fitzgerald Excavating & Trucking, Inc.	Construction-Flood Damage	148,255.10
72632	11/30/21	fit002	Nov 2021	Mary Fitzgerald	Employee Reimbursement	150.81
72633	11/30/21	fle001	94260	Flemings Auto Service	Vehicle Maintenance-General	165.17
72634	11/30/21	fox002	21-09 MTN	Cameron Fox	Stewardship Grant Fund	260.00
72635	11/30/21	gal001	11/23/21	Galowitz Olson, PLLC	November Legal Expense	1,589.00
72636	11/30/21	gil001	210950	Gilbert Mechanical Contractors, Inc.	Water QM Staff	1,458.00
72637	11/30/21	gra003	19-03 MTN	Grace Church Roseville	Stewardship Grant Fund	252.50
72638	11/30/21	ham002	10/19/21	Hamline University	Educational Program	231.30
72639	11/30/21	ham005	21-03 MTN	Sarah Hammes	Stewardship Grant Fund	315.00
72640	11/30/21	hof002	20-03 MTN	John Hoffman	Stewardship Grant Fund	206.25
72641	11/30/21	hol004	20-19 MTN	Hollow Pond HOA	Stewardship Grant Fund	1,000.00
72642	11/30/21	inn002	SO-3502828	Innovative Office Solutions LLC	Office Supplies	9.14
72643	11/30/21	inn003	10751	Innovational Water Solutions, Inc.	Utilities/Bldg. Contracts	221.40
72644	11/30/21	int001	W2110049	Office of MN, IT Services	Telephone Expense	59.34
72645	11/30/21	jac004	21-10 MTN	Michele Jacobson	Stewardship Grant Fund	1,000.00
72646	11/30/21	kel007	20-11 MTN	Keller Property Management	Stewardship Grant Fund	38.46
72647	11/30/21	kel008	20-12 MTN	Jeanne & Dan Kelsey	Stewardship Grant Fund	416.65
72648	11/30/21	kin001	10/21/21	FedEx Office	Educational Program	58.92
72649	11/30/21	kub001	Sep 2021	Kyle W. Kubitz	Employee Reimbursement	469.18
72650	11/30/21	lan011	17-32 Partial	Landmark Development	Dev. Escrow-General	48,425.00
72651	11/30/21	lea003	14-1002	L. Tracy Leavenworth	Educational Program	2,225.88
72652	11/30/21	mag004	1/1-11/11/21	Carrie Magnuson	Employee Reimbursement	379.03
72653	11/30/21	mel001	Oct-Nov 2021	Michelle L. Melser	Employee Reimbursement	98.56
72654	11/30/21	mel001	Oct-Nov 2021	Michelle L. Melser	Employee Reimbursement	120.00
72655	11/30/21	mid003	576386	Roseville Midway Ford	Vehicle Maintenance-General	1,363.69
72656	11/30/21	min008	31764	Minnesota Native Landscapes, Inc.	Construction Imp.-Maint. & Rep.	6,880.00
72657	11/30/21	ncp001	10/10/21	NCPERS Group Life Ins.	Employee Benefits	32.00
72658	11/30/21	nsp001	757238742	Xcel Energy	Project Operations/Utilities/Bldg.	646.06
72659	11/30/21	pac001	21100353355	Pace Analytical Services, Inc.	Water QM Staff	1,095.00
72660	11/30/21	par004	18-08 MTN	Park View Terrace HOA	Stewardship Grant Fund	1,000.00
72661	11/30/21	pas002	11/24/21	Sage Passi	Employee Reimbursement	287.66
72662	11/30/21	pet001	Pay #2	Peterson Companies, Inc.	Construction Imp.-Maint. & Rep.	184,475.04
72663	11/30/21	pit001	3105137487	Pitney Bowes Global Financial Serv LLC	Postage Expense	143.55
72664	11/30/21	pre003	318436528	Premium Waters, Inc.	Utilities/Bldg. Contracts	28.00

**Ramsey Washington Metro Watershed Dist.**  
**Check Register**  
**For the Period From Nov 1, 2021 to Nov 30, 2021**

Check #	Date	Payee ID	Invoice #	Payee	Description	Amount
72665	11/30/21	pri001	21-07 MTN	Prince of Peace Lutheran Church	Stewardship Grant Fund	182.45
72666	11/30/21	pro003	Nov 2021	Lyndsey R. Provos	Employee Reimbursement	518.11
72667	11/30/21	qwe001	11/10/21	CenturyLink	Project Operations	252.39
72668	11/30/21	ram002	PUBW-019441	Ramsey County	Water QM Staff/Stewardship	47,438.79
72669	11/30/21	red002	150466015	Redpath & Company	October Accounting Services	2,054.34
72670	11/30/21	red003	20211110043028	Red Wing Business Advantage Account	Employee Benefits	174.24
72671	11/30/21	rey001	20-02 MTN	Thomas Reynen	Stewardship Grant Fund	579.81
72672	11/30/21	rol001	20-18 MTN	Rolling Hills Homeowners Association	Stewardship Grant Fund	1,000.00
72673	11/30/21	ruh001	20-19 CS	Jennifer Ruhland	Stewardship Grant Fund	2,072.52
72674	11/30/21	sca001	1818	Scales Advertising	Communications & Marketing	1,800.00
72675	11/30/21	sha001	21-18 MTN	Melissa Sharp	Stewardship Grant Fund	212.50
72676	11/30/21	sim001	Oct-Nov 2021	Emily Simmons	Employee Reimbursement	134.93
72677	11/30/21	sod001	Nov 2021	Nicole Soderholm	Employee Reimbursement	245.22
72678	11/30/21	som001	138611	Eric Sommers	Events	1,225.00
72679	11/30/21	sts001	21-06 MTN	St. Stephen Lutheran Church	Stewardship Grant Fund	300.43
72680	11/30/21	stu001	2019516	Studio Lola	Stewardship Grant Fund	1,010.50
72681	11/30/21	tim002	M6878	Timesaver Off-Site Secretarial, Inc.	Committee/Board Meeting Exp.	259.00
72682	11/30/21	tro002	21-11	Cathy Troendle	Educational Program	3,030.56
72683	11/30/21	uni006	MN Stormwater	University of Minnesota	Research Projects-General	25,000.00
72684	11/30/21	usb002	Nov 2021	U.S. Bank	Monthly Credit Card Expense	6,154.02
72685	11/30/21	usb005	456799782	US Bank Equipment Finance	Printing Expense	294.00
72686	11/30/21	van001	Nov 2021	Vanguard Cleaning Systems of Minnesota	Janitorial/Trash Service	550.00
72687	11/30/21	voy001	8692934232148	US Bank Voyager Fleet Sys.	Vehicle Fuel	402.50
72688	11/30/21	was002	5405	Washington Conservation District	Stewardship Grant Fund	2,592.00
72689	11/30/21	woo001	18-06 MTN	Woodland Hills Church	Stewardship Grant Fund	1,000.00
<b>Total</b>						<b><u>\$707,861.27</u></b>
EFT	10/01/21	myp001	10/01/21	October 1st Payroll Fees	4110-101-000	72.00
EFT	10/15/21	myp001	10/15/21	October 15th Payroll Fees	4110-101-000	68.10
EFT	10/29/21	myp001	10/29/21	October 29th Payroll Fees	4110-101-000	68.10
Dir.Dep.	11/12/21	---	Payroll Expense-Net	November 12th Payroll	4010-101-000	28,367.67
EFT	11/12/21	int002	Internal Rev.Serv.	November 12th Federal Withholding	2001-101-000	10,201.35
EFT	11/12/21	mnd001	MN Revenue	November 12th State Withholding	2003-101-000	1,833.72
EFT	11/12/21	per001	PERA	November 12th PERA	2011-101-000	5,977.61
EFT	11/12/21	emp002	Empower Retirement	Employee Def.Comp. Contributions	2016-101-000	2,295.00
EFT	11/12/21	emp002	Empower Retirement	Employee IRA Contributions	2018-101-000	400.00
Dir.Dep.	11/26/21	---	Payroll Expense-Net	November 26th Payroll	4010-101-000	29,616.90
EFT	11/26/21	int002	Internal Rev.Serv.	November 26th Federal Withholding	2001-101-000	10,675.57
EFT	11/26/21	mnd001	MN Revenue	November 26th State Withholding	2003-101-000	1,943.97
EFT	11/26/21	per001	PERA	November 26th PERA	2011-101-000	6,098.57
EFT	11/26/21	emp002	Empower Retirement	Employee Def.Comp. Contributions	2016-101-000	2,345.00
EFT	11/26/21	emp002	Empower Retirement	Employee IRA Contributions	2018-101-000	400.00
<b>Payroll/Benefits:</b>						<b><u>\$100,363.56</u></b>
<b>Total</b>						<b>Accounts Payable/Payroll/Benefits: <u>\$808,224.83</u></b>

**Ramsey Washington Metro Watershed Dist.**  
**Cash Disbursements Journal**  
**For the Period From November 1, 2021 - November 30, 2021**

Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Detail
11/01/21	EFT	met008	MetLife-Group Benefits	4040-101-000	Employee Benefits-General	\$1,616.96	
11/01/21	EFT	aws001	AWS Service Center	4342-101-000	Utilities/Bldg. Contracts	269.11	
11/01/21	EFT	hom001	Home Depot Credit Services			207.22	
				4670-101-000	Natural Resources Project-General		152.71
				4530-101-000	Water QM Staff-General		54.51
11/09/21	EFT	hea002	HealthPartners	4040-101-000	Employee Benefits-General	11,910.12	
11/02/21	72608	kub001	Kyle W. Kubitza			122.92	
				4020-101-000	Employee Expenses-General		48.16
				4040-101-000	Employee Benefits-General		40.00
				4530-101-000	Water QM Staff-General		34.76
11/30/21	72609	adr001	Jennifer Adrian	4682-529-000	Stewardship Grant Fund	7,700.00	
11/30/21	72610	and005	Michele Anderson	4682-529-000	Stewardship Grant Fund	182.67	
11/30/21	72611	app003	Applewood Pointe of Shoreview Sr. Co-Op	4682-529-000	Stewardship Grant Fund	947.50	
11/30/21	72612	att002	AT & T Mobility - ROC			166.34	
				4530-101-000	Water QM Staff-General		27.22
				4325-101-000	IT/Website/Software		54.86
				4650-101-000	Project Operations-General		84.26
11/30/21	72613	bar001	Barr Engineering			159,049.68	
				4121-101-000	Engineering Admin-General Fund		7,408.50
				4123-101-000	Engineering-Review		4,488.00
				4129-101-000	Project Feasability-General		10,229.72
				4129-101-000	Project Feasability-General		16,448.24
				4129-101-000	Project Feasability-General		570.00
				4129-101-000	Project Feasability-General		3,693.50
				4129-101-000	Project Feasability-General		3,010.00
				4520-101-000	Water QM-Engineering		855.00
				4122-101-000	Engineering-Permit I & E		60.00
				4124-101-000	Engineering-Permit Review		4,390.00
				4661-101-000	SLMP/TMDL Studies		680.00
				4695-101-000	Research Projects-General		1,209.00
				4695-101-000	Research Projects-General		1,451.10
				4650-101-000	Engineering-Project Operations		87.00
				4650-101-000	Engineering-Project Operations		1,027.50
				4128-518-000	Engineering-School/Commer Retrofit		1,601.56
				4128-518-000	Engineering-School/Commer Retrofit		4,646.36
				4128-518-000	Engineering-School/Commer Retrofit		312.00
				4128-518-000	Engineering-School/Commer Retrofit		3,003.50
				4128-518-000	Engineering-School/Commer Retrofit		1,778.18
				4682-529-000	Stewardship Grant Fund		7,104.20
				4128-529-000	Engineering-Stewardship		1,547.40
				4128-520-000	Engineering-Flood Damage		334.00
				4128-520-000	Engineering-Flood Damage		11,898.70
				4128-516-000	Engineering-Maint. & Repair		26,388.64

**Ramsey Washington Metro Watershed Dist.**  
**Cash Disbursements Journal**  
**For the Period From November 1, 2021 - November 30, 2021**

Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Detail
				4128-516-000	Engineering-Maint. & Repair		25.00
				4128-516-000	Engineering-Maint. & Repair		2,712.00
				4128-516-000	Engineering-Maint. & Repair		12,953.98
				4128-516-000	Engineering-Maint. & Repair		708.00
				4128-516-000	Engineering-Maint. & Repair		28,428.60
11/30/21	72614	ber006	Janet Berryhill	4682-529-000	Stewardship Grant Fund	195.06	
11/30/21	72615	blo001	Simba Blood			345.86	
				4020-101-000	Employee Expenses-General		125.83
				4682-529-000	Stewardship Grant Fund		30.03
				4040-101-000	Employee Benefits-General		190.00
11/30/21	72616	bur002	Tom Burns Consulting, LLC	4171-101-000	Data Base/GIS Maintenance	3,770.00	
11/30/21	72617	cad001	Allstream	4530-101-000	Water QM Staff-General	73.42	
11/30/21	72618	car003	Tina Carstens			805.80	
				4020-101-000	Employee Expenses-General		128.80
				4040-101-000	Employee Benefits-General		677.00
11/30/21	72619	che001	Cherokee Hills Association No. II	4682-529-000	Stewardship Grant Fund	1,000.00	
11/30/21	72620	che002	Cherokee Hills Association No. I	4682-529-000	Stewardship Grant Fund	1,000.00	
11/30/21	72621	chi002	Linda Chimzar	4682-529-000	Stewardship Grant Fund	141.17	
11/30/21	72622	cit011	City of Roseville	4325-101-000	IT/Website/Software	5,026.78	
11/30/21	72623	com004	Comcast	4342-101-000	Utilities/Bldg. Contracts	79.07	
11/30/21	72624	com005	CommonBond Communities	2024-101-000	Dev. Escrow-General	9,535.00	
11/30/21	72625	cro001	Nutrien Ag Solutions, Inc.	4682-529-000	Stewardship Grant Fund	124.02	
11/30/21	72626	dav001	Davey Resource Group, Inc.	4630-516-000	Construction Imp.-Maint & Rep	630.00	
11/30/21	72627	daw001	Linda Dawson	4682-529-000	Stewardship Grant Fund	200.00	
11/30/21	72628	deu001	Thomas Deuring	4682-529-000	Stewardship Grant Fund	800.32	
11/30/21	72629	dvs001	DVS Renewal	4820-101-000	Vehicle Maintenance-General	23.25	
11/30/21	72630	fin002	Hallie Finucane	4682-529-000	Stewardship Grant Fund	100.00	
11/30/21	72631	fit001	Fitzgerald Excavating & Trucking, Inc.	4630-520-000	Construction-Flood Damage	148,255.10	
11/30/21	72632	fit002	Mary Fitzgerald			150.81	
				4020-101-000	Employee Expenses-General		5.60
				4040-101-000	Employee Benefits-General		145.21
11/30/21	72633	fle001	Flemings Auto Service	4820-101-000	Vehicle Maintenance-General	165.17	
11/30/21	72634	fox002	Cameron Fox	4682-529-000	Stewardship Grant Fund	260.00	
11/30/21	72635	gal001	Galawitz Olson, PLLC	4131-101-000	Attorney General-General	1,589.00	
11/30/21	72636	gil001	Gilbert Mechanical Contractors, Inc.	4530-101-000	Water QM Staff-General	1,458.00	
11/30/21	72637	gra001	Grace Church Roseville	4682-529-000	Stewardship Grant Fund	252.50	
11/30/21	72638	ham002	Hamline University	4370-101-000	Educational Program-General	231.30	
11/30/21	72639	ham005	Sarah Hammes	4682-529-000	Stewardship Grant Fund	315.00	
11/30/21	72640	hof002	John Hoffman	4682-529-000	Stewardship Grant Fund	206.25	
11/30/21	72641	hol004	Hollow Pond HOA	4682-529-000	Stewardship Grant Fund	1,000.00	
11/30/21	72642	inn002	Innovative Office Solutions, LLC	4320-101-000	Office Supplies-General	9.14	
11/30/21	72643	inn003	Innovative Water Solutions, Inc.	4342-101-000	Utilities/Bldg. Contracts	221.40	
11/30/21	72644	int001	Office of MN, IT Services	4310-101-000	Telephone-General	59.34	
11/30/21	72645	jac004	Michele Jacobson	4682-529-000	Stewardship Grant Fund	1,000.00	
11/30/21	72646	kel007	Keller Property Management	4682-529-000	Stewardship Grant Fund	38.46	



**Ramsey Washington Metro Watershed Dist.**  
**Cash Disbursements Journal**  
**For the Period From November 1, 2021 - November 30, 2021**

Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Detail
11/30/21	72647	kel008	Jeanne & Dan Kelsey	4682-529-000	Stewardship Grant Fund	416.65	
11/30/21	72648	kin001	FedEx Office	4370-101-000	Educational Program-General	58.92	
11/30/21	72649	kub001	Kyle W. Kubitza			469.18	
				4040-101-000	Employee Benefits-General		427.74
				4020-101-000	Employee Expenses-General		41.44
11/30/21	72650	lan011	Landmark Development (Partial)	2024-101-000	Dev. Escrow-General	48,425.00	
11/30/21	72651	lea003	L. Tracy Leavenworth	4370-101-000	Educational Program-General	2,225.88	
11/30/21	72652	mag004	Carrie Magnuson			379.03	
				4040-101-000	Employee Benefits-General		364.57
				4372-101-000	Events		14.46
11/30/21	72653	mel001	Michelle L. Melser	4020-101-000	Employee Expenses-General	98.56	
11/30/21	72654	mel001	Michelle L. Melser	4040-101-000	Employee Benefits-General	120.00	
11/30/21	72655	mid003	Roseville Midway Ford	4820-101-000	Vehicle Maintenance-General	1,363.69	
11/30/21	72656	min008	Minnesota Native Landscapes, Inc.	4630-516-000	Construction Imp.-Maint & Rep	6,880.00	
11/30/21	72657	ncp001	NCPERS Group Life Ins.	4040-101-000	Employee Benefits-General	32.00	
11/30/21	72658	nsp001	Xcel Energy			646.06	
				4650-101-000	Project Operations-General		119.23
				4342-101-000	Utilities/Bldg. Contracts		167.05
				4530-101-000	Water QM Staff-General		233.13
				4650-520-000	Project Operations-Flood		126.65
11/30/21	72659	pac001	Pace Analytical Services, Inc.	4530-101-000	Water QM Staff-General	1,095.00	
11/30/21	72660	par004	Park View Terrace HOA	4682-529-000	Stewardship Grant Fund	1,000.00	
11/30/21	72661	pas002	Sage Passi			287.66	
				4020-101-000	Employee Expenses-General		122.08
				4040-101-000	Employee Benefits-General		57.00
				4682-529-000	Stewardship Grant Fund		48.61
				4370-101-000	Educational Program-General		59.97
11/30/21	72662	pet001	Peterson Companies, Inc.	4630-516-000	Construction Imp.-Maint. & Repair	184,475.04	
11/30/21	72663	pit001	Pitney Bowes Global Financial Services, LLC	4330-101-000	Postage-General	143.55	
11/30/21	72664	pre003	Premium Waters, Inc.	4342-101-000	Utilities/Bldg. Contracts	28.00	
11/30/21	72665	pri001	Prince of Peace Lutheran Church	4682-529-000	Stewardship Grant Fund	182.45	
11/30/21	72666	pro003	Lyndsey R. Provos			518.11	
				4040-101-000	Employee Benefits-General		241.52
				4820-101-000	Vehicle Maintenance-General		214.43
				4020-101-000	Employee Expenses-General		62.16
11/30/21	72667	qwe001	CenturyLink	4650-101-000	Project Operations-General	252.39	
11/30/21	72668	ram002	Ramsey County			47,438.79	
				4530-101-000	Water QM Staff-General		47,398.79
				4682-529-000	Stewardship Grant Fund		40.00
11/30/21	72669	red002	Redpath & Company, Ltd.	4110-101-000	Auditor/Accounting	2,054.34	
11/30/21	72670	red003	Red Wing Business Advantage Account	4040-101-000	Employee Benefits-General	174.24	
11/30/21	72671	rey001	Thomas Reynen	4682-529-000	Stewardship Grant Fund	579.81	
11/30/21	72672	rol001	Rolling Hills Homeowners Association	4682-529-000	Stewardship Grant Fund	1,000.00	
11/30/21	72673	ruh001	Jennifer Ruhland	4682-529-000	Stewardship Grant Fund	2,072.52	

**Ramsey Washington Metro Watershed Dist.**  
**Cash Disbursements Journal**  
**For the Period From November 1, 2021 - November 30, 2021**

Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Detail
11/30/21	72674	sca001	Scales Advertising	4371-101-000	Communications & Marketing	1,800.00	
11/30/21	72675	sha001	Melissa Sharp	4682-529-000	Stewardship Grant Fund	212.50	
11/30/21	72676	sim001	Emily Simmons			134.93	
				4020-101-000	Employee Expenses-General		63.80
				4372-101-000	Events		31.13
				4040-101-000	Employee Benefits-General		40.00
11/30/21	72677	sod001	Nicole Soderholm			245.22	
				4020-101-000	Employee Expenses-General		21.84
				4703-101-000	Office Equipment-General		183.38
				4040-101-000	Employee Benefits-General		40.00
11/30/21	72678	som001	Eric Sommers	4372-101-000	Events	1,225.00	
11/30/21	72679	sts001	St. Stephens Lutheran Church	4682-529-000	Stewardship Grant Fund	300.43	
11/30/21	72680	stu001	Studio Lola	4682-529-000	Stewardship Grant Fund	1,010.50	
11/30/21	72681	tim002	Timesaver Off-Site Secretarial, Inc.	4365-101-000	Committee/Board Meeting Expense	259.00	
11/30/21	72682	tro002	Cathy Troendle			3,030.56	
				4370-101-000	Educational Program-General		2,962.50
				4370-101-000	Educational Program-General		35.56
				4370-101-000	Educational Program-General		32.50
11/30/21	72683	uni006	University of Minnesota	4695-101-000	Research Projects-General	25,000.00	
11/30/21	72684	usb002	U.S. Bank			6,154.02	
				4320-101-000	Office Supplies-General		31.03
				4350-101-000	Training & Education		22.47
				4325-101-000	IT/Website/Software		93.04
				4320-101-000	Office Supplies-General		50.31
				4343-101-000	Bldg/Site Maintenance		330.00
				4320-101-000	Office Supplies-General		59.92
				4320-101-000	Office Supplies-General		42.96
				4320-101-000	Office Supplies-General		50.84
				4670-101-000	Natural Resources Project-General		50.84
				4330-101-000	Postage-General		143.55
				4350-101-000	Training & Education		195.00
				4350-101-000	Training & Education		1,170.00
				4350-101-000	Training & Education		50.00
				4350-101-000	Training & Education		50.00
				4350-101-000	Training & Education		150.00
				4350-101-000	Training & Education		100.00
				4350-101-000	Training & Education		150.00
				4350-101-000	Training & Education		120.00
				4370-101-000	Educational Program-General		59.62
				4350-101-000	Training & Education		750.00
				4350-101-000	Training & Education		750.00
				4350-101-000	Training & Education		200.00
				4371-101-000	Communications & Marketing		63.20
				4350-101-000	Training & Education		107.04
				4697-101-000	Health & Safety Program		14.35
				4371-101-000	Communications & Marketing		22.54
				4350-101-000	Training & Education		432.31
				4372-101-000	Events		780.00
				4338-101-000	Dues/Publications		115.00

**Ramsey Washington Metro Watershed Dist.**  
**Cash Disbursements Journal**  
**For the Period From November 1, 2021 - November 30, 2021**


Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Detail
11/30/21	72685	usb005	US Bank Equipment Finance	4335-101-000	Printing-General	294.00	
11/30/21	72686	van001	Vanguard Cleaning Systems of Minnesota	4341-101-000	Janitorial/Trash Service	550.00	
11/30/21	72687	voy001	US Bank Voyager Fleet Sys.	4830-101-000	Vehicle Fuel-General	402.50	
11/30/21	72688	was002	Washington Conservation District	4682-529-000	Stewardship Grant Fund	2,592.00	
11/30/21	72689	woo001	Woodland Hills Church	4682-529-000	Stewardship Grant Fund	1,000.00	
<b>Accounts Payable Total:</b>						<b>\$707,861.27</b>	
EFT	10/01/21	myp001	Payroll Fees	4110-101-000	October 1st Payroll Fees	72.00	
EFT	10/15/21	myp001	Payroll Fees	4110-101-000	October 15th Payroll Fees	68.10	
EFT	10/29/21	myp001	Payroll Fees	4110-101-000	October 29th Payroll Fees	68.10	
Dir.Dep.	11/12/21	---	Payroll Expense-Net	4010-101-000	November 12th Payroll	28,367.67	
EFT	11/12/21	int002	Internal Rev.Serv.	2001-101-000	November 12th Federal Withholding	10,201.35	
EFT	11/12/21	mnd001	MN Revenue	2003-101-000	November 12th State Withholding	1,833.72	
EFT	11/12/21	per001	PERA	2011-101-000	November 12th PERA	5,977.61	
EFT	11/12/21	emp002	Empower Retirement	2016-101-000	Employee Def.Comp. Contributions	2,295.00	
EFT	11/12/21	emp002	Empower Retirement	2018-101-000	Employee IRA Contributions	400.00	
Dir.Dep.	11/26/21	---	Payroll Expense-Net	4010-101-000	November 26th Payroll	29,616.90	
EFT	11/26/21	int002	Internal Rev.Serv.	2001-101-000	November 26th Federal Withholding	10,675.57	
EFT	11/26/21	mnd001	MN Revenue	2003-101-000	November 26th State Withholding	1,943.97	
EFT	11/26/21	per001	PERA	2011-101-000	November 26th PERA	6,098.57	
EFT	11/26/21	emp002	Empower Retirement	2016-101-000	Employee Def.Comp. Contributions	2,345.00	
EFT	11/26/21	emp002	Empower Retirement	2018-101-000	Employee IRA Contributions	400.00	
<b>Payroll/Benefits</b>						<b>\$100,363.56</b>	
<b>TOTAL:</b>						<b>\$808,224.83</b>	



Summary of Professional Engineering Services During the Period  
October 16, 2021 through November 19, 2021

	Total Engineering Budget (2021)	Total Fees to Date (2021)	Budget Balance (2021)	Fees During Period	District Accounting Code	Plan Implementation Task Number
<b>Engineering Administration</b>						
General Engineering Administration	\$76,000.00	\$63,887.50	\$12,112.50	\$7,408.50	4121-101	DW-13
RWMWD Health and Safety/ERTK Program	\$2,000.00	\$525.00	\$1,475.00	\$0.00	4697-101	DW-13
Educational Program/Educational Forum Assistance	\$20,000.00	\$17,120.00	\$2,880.00	\$0.00	4129-101	DW-11
<b>Engineering Review</b>						
Engineering Review	\$55,000.00	\$46,751.00	\$8,249.00	\$4,488.00	4123-101	DW-13
<b>Project Feasibility Studies</b>						
Interim emergency response plan funds for top priority District flooding areas	\$60,000.00	\$53,167.47	\$6,832.53	\$10,229.72	4129-101	DW-19
Groundwater/Surface Water Next Steps	\$50,000.00	\$226.00	\$49,774.00	\$0.00	4129-101	DW-16
FEMA Flood Mapping Update (2020)	\$109,720.00	\$86,783.50	\$22,936.50	\$0.00	4129-101	DW-9
Hillcrest Golf Course (multi-use)	\$20,000.00	\$228.00	\$19,772.00	\$0.00	4129-101	DW-6
Gold BRT planning	\$20,000.00	\$0.00	\$20,000.00	\$0.00	4129-101	DW-6
Kohlman Creek flood damage reduction feasibility study	\$75,000.00	\$58,651.45	\$16,348.55	\$16,448.24	4129-101	DW-9, BELT-3
Grass Lake Berm Wetland	\$35,000.00	\$13,966.12	\$21,033.88	\$570.00	4129-101	
Ames Lake Technical Assistance and Project Planning with St. Paul	\$25,000.00	\$32,973.91	-\$7,973.91	\$3,693.50	4129-101	DW-9, BELT-3
Battle Creek PFAS (monitoring, source ID, meetings, communications)	\$25,000.00	\$0.00	\$25,000.00	\$0.00	4129-101	DW-10
694/494/94 WQ treatment feasibility study	\$30,000.00	\$0.00	\$30,000.00	\$0.00	4129-101	BCL-3
Subwatershed feasibility studies for At-Risk creeks (Fish Creek and Gervais Creek)	\$35,000.00	\$270.00	\$34,730.00	\$0.00	4129-101	DW-1, DW-2, DW-6
Wetland Restoration Workshop, Education, and Planning	\$25,000.00	\$3,010.00	\$21,990.00	\$3,010.00	4129-101	DW-8
Contingency*	\$50,000.00	\$0.00	\$50,000.00	\$0.00	4129-101	
<b>GIS Maintenance</b>						
GIS Maintenance	\$5,000.00	\$0.00	\$5,000.00	\$0.00	4170-101	DW-13
<b>Monitoring Water Quality/Project Monitoring</b>						
Lake Water Quality Monitoring (Misc QA/QC)	\$10,000.00	\$358.18	\$9,641.82	\$0.00	4520-101	DW-2
Annual WQ Report Assistance	\$10,000.00	\$126.00	\$9,874.00	\$0.00	4520-101	DW-2
Special Project BMP Monitoring	\$25,000.00	\$18,091.50	\$6,908.50	\$0.00	4520-101	DW-12
Kohlman Permeable Weir Test System - Implement Monitoring Plan	\$15,000.00	\$9,815.50	\$5,184.50	\$855.00	4520-101	DW-12
<b>Permit Processing, Inspection and Enforcement</b>						
Permit Application Inspection and Enforcement	\$10,000.00	\$2,918.40	\$7,081.60	\$60.00	4122-101	DW-7
Permit Application Review	\$55,000.00	\$41,707.00	\$13,293.00	\$4,390.00	4124-101	DW-7
<b>Lake Studies/WPPPs/TMDL Reports</b>						
2020 Grant Applications	\$40,000.00	\$0.00	\$40,000.00	\$0.00	4661-101	DW-13
Tanners Flood Response Tool Model Update	\$3,000.00	\$3,830.00	-\$830.00	\$0.00	4661-101	Tal-1
WMP Updates - Including Implementation Plan Updates	\$20,000.00	\$0.00	\$20,000.00	\$0.00	4661-101	DW-13
Prioritization of water quality projects from subwatershed feasibility studies	\$15,000.00	\$2,289.50	\$12,710.50	\$0.00	4661-101	DW-13
Phalen Chain of Lakes Changes in Water Quality	\$10,000.00	\$8,063.00	\$1,937.00	\$680.00	4661-101	DW-2, DW-12
Contingency for Lake Studies	\$25,000.00	\$0.00	\$25,000.00	\$0.00	4661-101	
<b>Research Projects</b>						
New Technology Mini Case Studies (average 6 per year)	\$12,000.00	\$13,141.50	-\$1,141.50	\$1,209.00	4695-101	DW-12
Shallow Lake Aeration Study	\$36,000.00	\$45,587.05	-\$9,587.05	\$1,451.10	4695-101	DW-12
<b>Project Operations</b>						
2021 Tanners Alum Facility Monitoring	\$15,000.00	\$12,532.50	\$2,467.50	\$87.00	4650-101	Tal-3
Beltline Outlet and Keller Channel Operations Plans	\$30,000.00	\$12,081.84	\$17,918.16	\$1,027.50	4650-101	DW-9, BELT-3
<b>Capital Improvements</b>						
East St. Paul Target	\$45,000.00	\$54,979.23	-\$9,979.23	\$1,601.56	4128-518	DW-6
North St. Paul Target	\$150,000.00	\$156,396.80	-\$6,396.80	\$4,646.36	4128-518	DW-6
Cemstone	\$60,000.00	\$0.00	\$60,000.00	\$0.00	4128-518	DW-6
Commercial Sites Retrofit Projects 2021 (Targeted Retrofits)	\$45,000.00	\$6,810.00	\$38,190.00	\$312.00	4128-518	DW-6
School Sites Retrofit Projects 2021 (Targeted Retrofits)	\$45,000.00	\$13,370.70	\$31,629.30	\$3,003.50	4128-518	DW-6
Church Sites Retrofit Projects 2021 (Targeted Retrofit)	\$45,000.00	\$21,297.04	\$23,702.96	\$1,778.18	4128-518	DW-6
BMP Incentive Fund: Gen'l BMP Design Assistance and Review (cases where Dist is approached by landowner, or landowner is not commercial, school, church)	\$75,000.00	\$42,644.54	\$32,355.46	\$7,104.20	4682-529	DW-6
Willow Lake Area Detention (from feas. Study)	\$150,000.00	\$0.00	\$150,000.00	\$0.00	4128-520	DW-9, BELT-3
Kohlman Creek Storage and Detention (from feas. Study)	\$200,000.00	\$0.00	\$200,000.00	\$0.00	4128-520	KC-2
Aldrich Arena (soils and plantings)	\$25,000.00	\$24,352.89	\$647.11	\$0.00	4128-518	DW-6, WL-1
Wakefield Park/Frost Avenue Stormwater Project	\$17,500.00	\$23,859.77	-\$6,359.77	\$0.00	4128-553	DW-6, WL-1
Wetland Restoration	\$100,000.00	\$1,547.40	\$98,452.60	\$1,547.40	4128-529	DW-1, DW-8
Keller Channel Weir & Phalen Outlet Resiliency Modifications	\$250,000.00	\$248,880.65	\$1,119.35	\$334.00	4128-520	DW-9, BELT-3
Address Internal Load in TMDL lakes	\$60,000.00	\$0.00	\$60,000.00	\$0.00	4661-101	KL-2, GC-2, WL-3, BL-3
Ryan Drive-Keller Parkway Conveyance	\$194,000.00	\$192,533.09	\$1,466.91	\$11,898.70	4128-520	DW-9, BELT-3, GC-2
Twin Lake Outlet Easement Acquisition, Permitting, Construction Plans (2020)	\$90,000.00	\$75,862.87	\$14,137.13	\$0.00	4128-520	DW-9
Place holder for feas. study (other) recommendations	\$25,000.00	\$0.00	\$25,000.00	\$0.00	4128-520	
<b>CIP Project Repair &amp; Maintenance</b>						
Routine CIP Inspection and Unplanned Maintenance Identification	\$75,000.00	\$150,391.44	-\$75,391.44	\$26,388.64	4128-516	DW-5
Beltline 5-year Inspection	\$70,000.00	\$19,117.44	\$50,882.56	\$25.00	4128-516	BELT-2
District Inspection Standardization	\$34,200.00	\$8,424.50	\$25,775.50	\$2,712.00	4128-516	DW-5
CR D Ravine	\$32,500.00	\$18,561.48	\$13,938.52	\$12,953.98	4128-516	DW-5
2021 CIP Maintenance and Repairs	\$150,000.00	\$127,960.96	\$22,039.04	\$708.00	4128-516	DW-5
2022 CIP Maintenance and Repairs (planning, bidding, and project setup)	\$30,000.00	\$28,428.60	\$1,571.40	\$28,428.60	4128-516	DW-5
<b>TOTAL PAYABLE FOR PERIOD 10/16/21 - 11/19/21</b>				<b>\$159,049.68</b>		

Barr declares under the penalties of Law that this Account,  
Claim, or Demand is just and that no part has been paid.

  
Bradley J. Lindaman, Vice President

## Target North St. Paul Retail Store Stormwater Retrofits Progress Payment Number 2

1.0	Total Completed Through This Period:	<u>\$889,081.12</u>		
2.0	Total Previously Completed:		<u>\$741,690.61</u>	
3.0	Total Completed This Period:			<u>\$147,390.51</u>
4.0	Amount Previously Retained:		<u>\$37,084.53</u>	
5.0	Amount Retained This Period (See Note 1):			<u>\$0.00</u>
6.0	Total Amount Retained (See Note 1):		<u>\$37,084.53</u>	
7.0	Retainage Released Through This Period:			<u>\$37,084.53</u>
8.0	Total Retainage Remaining:		<u>\$0.00</u>	
9.0	Amounts Previously Paid:	<u>\$704,606.08</u>		
10.0	Amount Due This Estimate:			<u>\$184,475.04</u>

Note 1: At rate of 5%.

Note 2:	Bidding Estimate	\$858,013.84
	<i>Change Order No. 1</i>	<i>\$ (4,027.02)</i>
	<i>Change Order No. 2</i>	<i>\$ 13,279.46</i>
	<i>Change Order No. 3</i>	<i>\$ 7,980.54</i>
	<i>Change Order No. 4</i>	<i>\$ 13,312.50</i>
	Updated Estimate	\$888,559.32

SUBMITTED BY:

Name: Jake Sikora Date: 11/16/2021  
 Title: Project Manager  
 Contractor: Peterson Companies, Inc.

Signature: \_\_\_\_\_

RECOMMENDED BY:

Name: Katie Turpin-Nagel Date: 11/16/2021  
 Title: Project Engineer  
 Engineer: Barr Engineering Company

Signature: Natey Lynn Wagle

APPROVED BY:

Name: Lawrence Swope Date: \_\_\_\_\_  
 Title: President  
 Owner: Ramsey-Washington Metro Watershed District

Signature: \_\_\_\_\_

**Target North St. Paul Stormwater Retrofits**  
**Ramsey-Washington Metro Watershed District**  
**Summary of Work Completed Through November 8, 2021 for Progress Payment Number 2**

						(1) Total Completed Through this Period		(2) Total Completed Through Previous Periods		(3) Completed This Period	
Item	Description	Unit	Estimated Quantity	Unit Price	Extension	Quantity	Amount	Quantity	Amount	Quantity	Amount
A	Mobilization/Demobilization	LS	1	\$ 41,064.45	\$ 41,064.45	1	\$ 41,064.45	1	\$ 41,064.45		\$ -
B	Traffic and Pedestrian Safety Control Measures	LS	1	\$ 25,156.95	\$ 25,156.95	1	\$ 25,156.95	1	\$ 25,156.95		\$ -
C	Existing Utility Relocation Coordination	LS	1	\$ 8,097.60	\$ 8,097.60	1	\$ 8,097.60	1	\$ 8,097.60		\$ -
D	Construction Layout and Staking	LS	1	\$ 18,274.20	\$ 18,274.20	1	\$ 18,274.20	1	\$ 18,274.20		\$ -
E	Inlet Protection (P)	EA	15	\$ 131.25	\$ 1,968.75	15	\$ 1,968.75	15	\$ 1,968.75		\$ -
F	Mulch/Rock Filter Biolog	LF	704	\$ 4.88	\$ 3,435.52	850	\$ 4,148.00	850	\$ 4,148.00		\$ -
G	Silt Fence	LF	206	\$ 5.25	\$ 1,081.50	224	\$ 1,176.00	224	\$ 1,176.00		\$ -
H	Street Sweeping	HR	20	\$ 176.40	\$ 3,528.00	20	\$ 3,528.00	15	\$ 2,646.00	5	\$ 882.00
I	Removal and Disposal of Tree less than 7-inch Diameter	EA	7	\$ 39.38	\$ 275.66	4	\$ 157.52	4	\$ 157.52		\$ -
J	Sawcut Bituminous Pavement (Full Depth) (P)	LF	1,697	\$ 3.88	\$ 6,584.36	1697	\$ 6,584.36	1697	\$ 6,584.36		\$ -
K	Remove and Dispose of Concrete Curb & Gutter	LF	178	\$ 4.39	\$ 781.42	196	\$ 860.44	196	\$ 860.44		\$ -
L	Remove and Dispose of 6-inch Bituminous Pavement (P)	SY	2,965	\$ 3.33	\$ 9,873.45	2965	\$ 9,873.45	2965	\$ 9,873.45		\$ -
M	Remove and Salvage Class 5 Aggregate (P)	CY	421	\$ 20.63	\$ 8,685.23	421	\$ 8,685.23	421	\$ 8,685.23		\$ -
N	Remove and Dispose of Existing RC Storm Sewer Pipe (12-inch to 24-inch)	LF	66	\$ 38.70	\$ 2,554.20	66	\$ 2,554.20	66	\$ 2,554.20		\$ -
O	Remove and Dispose of Existing Storm Sewer Manhole	EA	2	\$ 742.88	\$ 1,485.76	2	\$ 1,485.76	2	\$ 1,485.76		\$ -
P	Remove and Salvage Existing Topsoil (P)	CY	127	\$ 7.66	\$ 972.82	127	\$ 972.82	127	\$ 972.82		\$ -
Q	Common Excavation (P)	CY	4,507	\$ 5.42	\$ 24,427.94	4507	\$ 24,427.94	4507	\$ 24,427.94		\$ -
R	Dispose Excavated Material Offsite (P)	CY	3,211	\$ 12.83	\$ 41,197.13	3211	\$ 41,197.13	3211	\$ 41,197.13		\$ -
S	Soil Loosening - 18-inch Depth (P)	SY	1,283	\$ 0.89	\$ 1,141.87	1283	\$ 1,141.87	1283	\$ 1,141.87		\$ -
T	Replace Salvaged Class 5 Aggregate Base (P)	CY	314	\$ 48.61	\$ 15,263.54	314	\$ 15,263.54	314	\$ 15,263.54		\$ -
U	Replace Salvaged Topsoil (P)	CY	127	\$ 0.01	\$ 1.27	127	\$ 1.27	127	\$ 1.27		\$ -
V	Furnish and Install Class 5 Aggregate Base	TON	1	\$ 92.35	\$ 92.35	0	\$ -	0	\$ -		\$ -
W	Furnish and Install Topsoil	CY	250	\$ 51.23	\$ 12,807.50	0	\$ -	0	\$ -		\$ -
X	Bituminous Base Course 4-inch thick (P)	SY	1,884	\$ 25.20	\$ 47,476.80	1884	\$ 47,476.80	1884	\$ 47,476.80		\$ -
Y	Bituminous Wearing Course 2-inch thick (P)	SY	1,884	\$ 13.13	\$ 24,736.92	1884	\$ 24,736.92	1884	\$ 24,736.92		\$ -
Z	Tack Coat (P)	SY	1,884	\$ 0.01	\$ 18.84	1884	\$ 18.84	1884	\$ 18.84		\$ -

**Target North St. Paul Stormwater Retrofits**  
**Ramsey-Washington Metro Watershed District**  
**Summary of Work Completed Through November 8, 2021 for Progress Payment Number 2**

						(1) Total Completed Through this Period		(2) Total Completed Through Previous Periods		(3) Completed This Period	
Item	Description	Unit	Estimated Quantity	Unit Price	Extension	Quantity	Amount	Quantity	Amount	Quantity	Amount
AA	B6-12 Concrete Curb & Gutter	LF	487	\$ 31.57	\$ 15,374.59	582	\$ 18,373.74	582	\$ 18,373.74		\$ -
BB	Tip out Concrete Curb & Gutter	LF	84	\$ 32.42	\$ 2,723.28	84	\$ 2,723.28	84	\$ 2,723.28		\$ -
CC	Concrete Swale (P)	SY	42	\$ 52.92	\$ 2,222.64	42	\$ 2,222.64	42	\$ 2,222.64		\$ -
DD	Painted Pavement Marking	LS	1	\$ 1,020.60	\$ 1,020.60	1	\$ 1,020.60	1	\$ 1,020.60		\$ -
EE	48-inch Dia. Pre-cast Storm Sewer Manhole, Complete	EA	8	\$ 3,999.91	\$ 31,999.28	8	\$ 31,999.28	8	\$ 31,999.28		\$ -
FF	60-inch Dia. Pre-cast Storm Sewer Manhole w/ Weir, Complete	EA	1	\$ 5,496.75	\$ 5,496.75	1	\$ 5,496.75	1	\$ 5,496.75		\$ -
GG	84-inch Dia. Pre-cast Storm Sewer Manhole w/ Weir, Complete	EA	3	\$ 16,498.04	\$ 49,494.12	3	\$ 49,494.12	3	\$ 49,494.12		\$ -
HH	3-foot x 2-foot Catch Basin with Sump, Complete	EA	5	\$ 3,557.03	\$ 17,785.15	5	\$ 17,785.15	5	\$ 17,785.15		\$ -
II	12-inch Dia. Nyloplast® Storm Sewer Structure, Complete	EA	3	\$ 1,779.84	\$ 5,339.52	3	\$ 5,339.52	3	\$ 5,339.52		\$ -
JJ	24-inch RC Storm Sewer Pipe	LF	8	\$ 87.74	\$ 701.92	0	\$ -	0	\$ -		\$ -
KK	21-inch RC Storm Sewer Pipe	LF	8	\$ 81.18	\$ 649.44	0	\$ -	0	\$ -		\$ -
LL	18-inch RC Storm Sewer Pipe	LF	233	\$ 44.48	\$ 10,363.84	233	\$ 10,363.84	233	\$ 10,363.84		\$ -
MM	15-inch RC Storm Sewer Pipe	LF	16	\$ 50.04	\$ 800.64	0	\$ -	0	\$ -		\$ -
NN	12-inch RC Storm Sewer Pipe	LF	8	\$ 44.46	\$ 355.68	8	\$ 355.68	8	\$ 355.68		\$ -
OO	10-inch DI Storm Sewer Pipe	LF	70	\$ 103.88	\$ 7,271.60	70	\$ 7,271.60	70	\$ 7,271.60		\$ -
PP	12-inch Perforated CPE Drintile Pipe and Fittings, no sock (P)	LF	485	\$ 18.97	\$ 9,200.45	485	\$ 9,200.45	485	\$ 9,200.45		\$ -
QQ	12-inch Solid CPE Drintile Pipe and Fittings (P)	LF	20	\$ 26.91	\$ 538.20	20	\$ 538.20	20	\$ 538.20		\$ -
RR	6-inch Perforated Dual Wall HDPE Drintile Pipe and Fittings, no sock (P)	LF	323	\$ 6.26	\$ 2,021.98	323	\$ 2,021.98	323	\$ 2,021.98		\$ -
SS	6-inch PVC Storm Sewer Pipe and Fittings (P)	LF	321	\$ 16.77	\$ 5,383.17	321	\$ 5,383.17	321	\$ 5,383.17		\$ -
TT	6-inch Drintile Cleanout and Cover Unit	EA	7	\$ 805.50	\$ 5,638.50	7	\$ 5,638.50	7	\$ 5,638.50		\$ -
UU	Clean Washed Sand with 5 percent Iron Aggregate (P)	CY	97	\$ 235.60	\$ 22,853.20	97	\$ 22,853.20	97	\$ 22,853.20		\$ -
VV	Small Splash Block Assembly (Pipe Discharge)	EA	5	\$ 1,937.43	\$ 9,687.15	5	\$ 9,687.15	5	\$ 9,687.15		\$ -
WW	Wet Cast Modular Block Retaining Wall, Complete	SFF	836	\$ 85.77	\$ 71,703.72	836	\$ 71,703.72	836	\$ 71,703.72		\$ -
XX	Metal Hand Rail	LF	157	\$ 132.30	\$ 20,771.10	157	\$ 20,771.10	0	\$ -	157	\$ 20,771.10
YY	Twice Shredded Hardwood Mulch (P)	CY	152	\$ 85.05	\$ 12,927.60	152	\$ 12,927.60	152	\$ 12,927.60		\$ -
ZZ	Planting Soil (75% sand, 25% leaf compost - MnDOT Grade II) (P)	CY	250	\$ 59.15	\$ 14,787.50	250	\$ 14,787.50	250	\$ 14,787.50		\$ -

Target North St. Paul Stormwater Retrofits  
Ramsey-Washington Metro Watershed District  
Summary of Work Completed Through November 8, 2021 for Progress Payment Number 2

						(1) Total Completed Through this Period		(2) Total Completed Through Previous Periods		(3) Completed This Period	
Item	Description	Unit	Estimated Quantity	Unit Price	Extension	Quantity	Amount	Quantity	Amount	Quantity	Amount
AAA	2-inch to 4-inch Clean Washed Angular Rock (Granite)	TON	800	\$ 43.13	\$ 34,504.00	953	\$ 41,102.89	953	\$ 41,102.89		\$ -
BBB	Filtration Soil Washed into 2-inch to 4-inch Rock (P)	CY	82	\$ 85.09	\$ 6,977.38	82	\$ 6,977.38	82	\$ 6,977.38		\$ -
CCC	1/4-inch Clean Washed Chip (Granite)	TON	216	\$ 86.14	\$ 18,606.24	231	\$ 19,898.34	231	\$ 19,898.34		\$ -
DDD	3/4-inch Clean Washed Chip (Granite)	TON	87	\$ 67.09	\$ 5,836.83	122	\$ 8,184.98	122	\$ 8,184.98		\$ -
EEE	MnDOT Type V Geotextile Filter Fabric (P)	SY	1,128	\$ 1.32	\$ 1,488.96	1128	\$ 1,488.96	1128	\$ 1,488.96		\$ -
FFF	Pre-cast Concrete Tree Box with Concrete Frame	EA	9	\$ 2,403.51	\$ 21,631.59	9	\$ 21,631.59	9	\$ 21,631.59		\$ -
GGG	Tree Guard	EA	9	\$ 926.68	\$ 8,340.12	9	\$ 8,340.12	9	\$ 8,340.12		\$ -
HHH	Tree Grate	EA	9	\$ 2,049.72	\$ 18,447.48	9	\$ 18,447.48	9	\$ 18,447.48		\$ -
III	Snout Separator	EA	2	\$ 994.88	\$ 1,989.76	2	\$ 1,989.76	2	\$ 1,989.76		\$ -
JJJ	4-inch Trench Drain with Concrete Encasement and Herringbone Grate, Complete	LF	53	\$ 230.75	\$ 12,229.75	53	\$ 12,229.75	53	\$ 12,229.75		\$ -
KKK	Perennials - 1 Gallon Pot (P)	EA	4,931	\$ 16.54	\$ 81,558.74	4931	\$ 81,558.74	0	\$ -	4931	\$ 81,558.74
LLL	Shrub (#2 Gallon Container) (P)	EA	281	\$ 37.80	\$ 10,621.80	281	\$ 10,621.80	0	\$ -	281	\$ 10,621.80
MMM	Deciduous Tree (#20, Cont.) (P)	EA	17	\$ 472.50	\$ 8,032.50	17	\$ 8,032.50	0	\$ -	17	\$ 8,032.50
NNN	Sodding (Salt Tolerant)	SY	0	\$ 18.90	\$ -	0	\$ -	0	\$ -		\$ -
OOO	Landscape Edging	LF	200	\$ 11.36	\$ 2,272.00	200	\$ 2,272.00	0	\$ -	200	\$ 2,272.00
C.O.1.B	ADA Paring Space Relocation	LS	1	\$ 2,333.55	\$ 2,333.55	1	\$ 2,333.55	1	\$ 2,333.55		\$ -
C.O.3.A	Large Splash Block Assembly	EA	1	\$ 3,908.10	\$ 3,908.10	1	\$ 3,908.10	1	\$ 3,908.10		\$ -
C.O.3.B	18" RCP FES	EA	1	\$ 6,009.87	\$ 6,009.87	1	\$ 6,009.87	0	\$ -	1	\$ 6,009.87
C.O.4.A	Sodding (Salt Tolerant)	SY	1,500	\$ 10.45	\$ 15,675.00	1650	\$ 17,242.50	0	\$ -	1650	\$ 17,242.50
TOTAL BASE BID					\$ 888,559.32		\$ 889,081.12		\$741,690.61		\$ 147,390.51



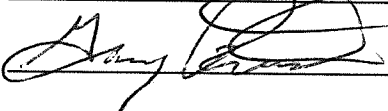
**Ryan Drive and Keller Pkwy Conveyance Upgrades**  
**Progress Payment No. 2**  
**For Work Completed Through November 15, 2021**

1.0	Total Completed Through This Period:	<u>\$542,906.95</u>		
2.0	Total Previously Completed:		<u>\$386,848.95</u>	
3.0	Total Completed This Period:			<u>\$156,058.00</u>
4.0	Amount Previously Retained:		<u>\$ 19,342.45</u>	
5.0	Amount Retained This Period (See Note 1):			<u>\$7,802.90</u>
6.0	Total Amount Retained (See Note 1):		<u>\$27,145.35</u>	
7.0	Retainage Released Through This Period:			<u>\$0.00</u>
8.0	Total Retainage Remaining:		<u>\$27,145.35</u>	
9.0	Amounts Previously Paid:	<u>\$367,506.50</u>		
10.0	Amount Due This Estimate:			<u><u>\$148,255.10</u></u>

Note 1: At rate of 5%.

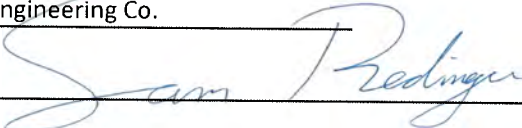
**SUBMITTED BY:**

Name: Gary Richter Date: 11/17/2021  
Title: Project Manager  
Contractor: Fitzgerald Excavating & Trucking

Signature: 

**RECOMMENDED BY:**

Name: Samuel Redinger Date: 11/17/2021  
Title: Project Engineer  
Engineer: Barr Engineering Co.

Signature: 

**APPROVED BY:**

Name: Lawrence Swope Date: \_\_\_\_\_  
Title: President  
Owner: Ramsey-Washington Metro Watershed District

Signature: \_\_\_\_\_

Ryan Drive and Keller Pkwy Conveyance Upgrades  
Ramsey-Washington Metro Watershed District  
Summary of Work Completed Through November 15, 2021 for Progress Payment No. 2

				Fitzgerald Excavating		(1) Total Completed This Period		(2) Total Completed Previous Periods		(3) Total Completed To Date	
Item	Description	Unit	Bidding Estimated Quantity	Unit Price	Extension	Quantity	Amount	Quantity	Amount	Quantity	Amount
General											
01 55 26.01	Traffic Control	LS	1	\$ 15,000.00	\$ 15,000.00	0.5	\$ 7,500.00	0.5	\$ 7,500.00	1	\$ 15,000.00
01 71 13.01	Mobilization/Demobilization	LS	1	\$ 105,000.00	\$ 105,000.00	0.15	\$ 15,750.00	0.65	\$ 68,250.00	0.8	\$ 84,000.00
Site 1 - Keller Pkwy											
01 74 23.02	Construction Entrance	EA	2	\$ 1,000.00	\$ 2,000.00		\$ -	0	\$ -	0	\$ -
01 74 23.04	Silt Fence	LF	550	\$ 2.50	\$ 1,375.00		\$ -	0	\$ -	0	\$ -
01 74 23.05	Flotation Silt Curtain	LF	80	\$ 20.00	\$ 1,600.00	12	\$ 240.00	80	\$ 1,600.00	92	\$ 1,840.00
01 74 23.06	Erosion Control Blanket and Seeding	SY	310	\$ 3.00	\$ 930.00	79	\$ 237.00		\$ -	79	\$ 237.00
02 41 00.01	Removal of Trees, Brush, and Debris (Disposal Off Site)	LS	1	\$ 15,000.00	\$ 15,000.00		\$ -	1	\$ 15,000.00	1	\$ 15,000.00
02 41 00.03	Remove and Dispose of 96-in Wide x 62-in Tall RC Arch Pipe	LF	116	\$ 75.00	\$ 8,700.00		\$ -	116	\$ 8,700.00	116	\$ 8,700.00
02 41 00.04	Remove and Dispose of Fencing	LF	120	\$ 15.00	\$ 1,800.00		\$ -	120	\$ 1,800.00	120	\$ 1,800.00
02 41 00.05	Saw-Cut, Bituminous pavement	LF	100	\$ 10.00	\$ 1,000.00		\$ -	92	\$ 920.00	92	\$ 920.00
02 41 00.06	Remove and Dispose Bituminous Pavement	SY	400	\$ 5.00	\$ 2,000.00		\$ -	399	\$ 1,995.00	399	\$ 1,995.00
02 41 00.07	Remove and Dispose Bituminous Driveway Pavement	SY	50	\$ 10.00	\$ 500.00		\$ -	65	\$ 650.00	65	\$ 650.00
31 00 00.01	Strip, Salvage, and Replace Topsoil (6-in Depth)	CY	270	\$ 12.00	\$ 3,240.00	90	\$ 1,080.00		\$ -	90	\$ 1,080.00
31 00 00.02	Sediment and Muck Excavation, Loading, and Hauling (Regulated)	TON	520	\$ 20.00	\$ 10,400.00		\$ -	0	\$ -	0	\$ -
31 00 00.03	Sediment and Muck Excavation, Loading, and Hauling (Non-Regulated)	CY	0	\$ 40.00	\$ -		\$ -	0	\$ -	0	\$ -
31 00 00.04	Sediment and Muck Disposal Fee	TON	520	\$ 20.00	\$ 10,400.00		\$ -	0	\$ -	0	\$ -
31 00 00.07	Aggregate Base Class 6	CY	60	\$ 35.00	\$ 2,100.00		\$ -	48	\$ 1,680.00	48	\$ 1,680.00
31 00 00.08	Riprap w/fabric (Mn/DOT CL III)	CY	350	\$ 60.00	\$ 21,000.00	-70	\$ (4,200.00)	245	\$ 14,700.00	175	\$ 10,500.00
31 00 00.09	Shoulder Aggregate Class 2 (100% Crushed Quarry Rock)	TON	25	\$ 45.00	\$ 1,125.00		\$ -	20.84	\$ 937.80	20.84	\$ 937.80
31 00 00.10	Topsoil Placement (Borrow)(Allowance)	CY	25	\$ 35.00	\$ 875.00		\$ -	0	\$ -	0	\$ -
31 23 19.01	Water Management - Keller Pkwy	LS	1	\$ 27,000.00	\$ 27,000.00		\$ -	1	\$ 27,000.00	1	\$ 27,000.00
32 12 00.02	2.5-in Type 12.5 Non-Wearing Course Mixture (4,B)(SPNWB430B)	TON	60	\$ 100.00	\$ 6,000.00		\$ -	89.6	\$ 8,960.00	89.6	\$ 8,960.00
32 12 00.04	2.5-in Type SP 9.5 Wearing Course Mixture 4,C (SPWEA440C)	TON	60	\$ 105.00	\$ 6,300.00		\$ -	63.63	\$ 6,681.15	63.63	\$ 6,681.15
32 12 00.05	2-in Type SP 9.5 Wearing Course Mixture 4,C (SPWEA440C)	TON	50	\$ 105.00	\$ 5,250.00		\$ -	50	\$ 5,250.00	50	\$ 5,250.00
32 12 00.06	Driveway Patching	TON	10	\$ 155.00	\$ 1,550.00		\$ -	13	\$ 2,015.00	13	\$ 2,015.00
32 31 13.01	Fencing (Chain Link)	LF	140	\$ 50.00	\$ 7,000.00		\$ -		\$ -	0	\$ -
33 42 00.03	16-FT Wide X 4-FT Tall Reinf. Conc. Box Culvert End Section (MnDOT Class I, Type III)	EA	4	\$ 16,000.00	\$ 64,000.00		\$ -	4	\$ 64,000.00	4	\$ 64,000.00
33 42 00.04	16-FT Wide X 4-FT Tall Reinf. Conc. Box Culvert (MnDOT Class I)	LF	86	\$ 1,735.00	\$ 149,210.00		\$ -	86	\$ 149,210.00	86	\$ 149,210.00
Site 2 - Ryan Drive											
01 74 23.02	Construction Entrance	EA	4	\$ 800.00	\$ 3,200.00	0	\$ -		\$ -	0	\$ -
01 74 23.03	Sediment Log (9-in Diameter)	LF	540	\$ 5.00	\$ 2,700.00	0	\$ -		\$ -	0	\$ -
01 74 23.04	Silt Fence	LF	600	\$ 2.50	\$ 1,500.00		\$ -		\$ -	0	\$ -
01 74 23.06	Erosion Control Blanket and Seeding	SY	690	\$ 3.00	\$ 2,070.00		\$ -		\$ -	0	\$ -
01 74 23.07	Rock Filter Dike	EA	1	\$ 500.00	\$ 500.00	0	\$ -		\$ -	0	\$ -
02 41 00.01	Removal of Trees, Brush, and Debris (Disposal Off Site)	LS	1	\$ 15,000.00	\$ 15,000.00	0.25	\$ 3,750.00		\$ -	0.25	\$ 3,750.00
02 41 00.02	Remove and Dispose of 30-inch RC Circ. Pipe	LF	53	\$ 55.00	\$ 2,915.00	53	\$ 2,915.00		\$ -	53	\$ 2,915.00
02 41 00.04	Remove and Dispose of Fencing	LF	15	\$ 50.00	\$ 750.00	15	\$ 750.00		\$ -	15	\$ 750.00
02 41 00.05	Saw-Cut, Bituminous pavement	LF	181	\$ 12.00	\$ 2,172.00	55	\$ 660.00		\$ -	55	\$ 660.00
02 41 00.06	Remove and Dispose Bituminous Pavement	SY	327	\$ 10.00	\$ 3,270.00	94	\$ 940.00		\$ -	94	\$ 940.00
02 41 00.08	Reclamation (12-in Depth)	SY	1,490	\$ 5.00	\$ 7,450.00	1300	\$ 6,500.00		\$ -	1300	\$ 6,500.00
02 41 00.09	Haul Out/Stockpile Millings	CY	500	\$ 12.00	\$ 6,000.00	433	\$ 5,196.00		\$ -	433	\$ 5,196.00

Ryan Drive and Keller Pkwy Conveyance Upgrades  
Ramsey-Washington Metro Watershed District  
Summary of Work Completed Through November 15, 2021 for Progress Payment No. 2

				Fitzgerald Excavating		(1) Total Completed This Period		(2) Total Completed Previous Periods		(3) Total Completed To Date	
Item	Description	Unit	Bidding Estimated Quantity	Unit Price	Extension	Quantity	Amount	Quantity	Amount	Quantity	Amount
31 00 00.01	Strip, Salvage, and Replace Topsoil (6-in Depth)	CY	264	\$ 14.00	\$ 3,696.00		\$ -		\$ -	0	\$ -
31 00 00.02	Sediment and Muck Excavation, Loading, and Hauling (Regulated)	TON	330	\$ 20.00	\$ 6,600.00		\$ -		\$ -	0	\$ -
31 00 00.03	Sediment and Muck Excavation, Loading, and Hauling (Non-Regulated)	CY	0	\$ 45.00	\$ -		\$ -		\$ -	0	\$ -
31 00 00.04	Sediment and Muck Disposal Fee	TON	330	\$ 20.00	\$ 6,600.00		\$ -		\$ -	0	\$ -
31 00 00.05	Roadway Embankment (Select Granular Borrow)	CY	1,160	\$ 30.00	\$ 34,800.00		\$ -		\$ -	0	\$ -
31 00 00.07	Aggregate Base Class 6	CY	440	\$ 35.00	\$ 15,400.00		\$ -		\$ -	0	\$ -
31 00 00.08	Riprap w/fabric (Mn/DOT CL III)	CY	120	\$ 65.00	\$ 7,800.00		\$ -		\$ -	0	\$ -
31 00 00.09	Shoulder Aggregate Class 2 (100% Crushed Quarry Rock)	TON	90	\$ 45.00	\$ 4,050.00		\$ -		\$ -	0	\$ -
31 00 00.10	Topsoil Placement (Borrow) (Allowance)	CY	25	\$ 35.00	\$ 875.00		\$ -		\$ -	0	\$ -
31 23 19.02	Water Management - Ryan Drive	LS	1	\$ 27,000.00	\$ 27,000.00	0.7	\$ 18,900.00		\$ -	0.7	\$ 18,900.00
32 12 00.01	2-in Type 12.5 Non-Wearing Course Mixture 3,C (SPNWB340C)	TON	180	\$ 100.00	\$ 18,000.00		\$ -		\$ -	0	\$ -
32 12 00.06	Driveway Patching	TON	80	\$ 100.00	\$ 8,000.00		\$ -		\$ -	0	\$ -
32 31 13.01	Fencing (Chain Link)	LF	80	\$ 50.00	\$ 4,000.00		\$ -		\$ -	0	\$ -
33 42 00.01	14-ft Wide X 5-ft Tall Reinf. Conc. Box Culvert End Section (MnDOT Class, Type I)	EA	2	\$ 16,000.00	\$ 32,000.00	2	\$ 32,000.00		\$ -	2	\$ 32,000.00
33 42 00.02	14-ft Wide X 5-ft Tall Reinf. Conc. Box Culvert (MnDOT Class I)	LF	38	\$ 1,680.00	\$ 63,840.00	38	\$ 63,840.00		\$ -	38	\$ 63,840.00
BASE BID TOTAL					\$750,543.00	\$156,058.00		\$386,848.95		\$542,906.95	

Bid Alternate 1 (Ryan Drive Wearing Course Paving)											
Item	Description	Unit	Bidding Estimated Quantity	Unit Price	Extension						
32 12 00.03	2-in Type SP 9.5 Wearing Course Mixture 3,C (SPWEA340C)	TON	180	\$ 115.00	\$ 20,700.00		\$ -		\$ -	0	\$ -
BID ALTERNATE #1					\$20,700.00	\$0.00		\$0.00		\$0.00	
TOTAL BASE BID PLUS BID ALTERNATE #1					\$771,243.00	\$156,058.00		\$386,848.95		\$542,906.95	

CHANGE ORDER - ADDITIONAL ITEMS											
SUBTOTAL CHANGE ORDERS					\$0.00	\$0.00		\$0.00		\$0.00	
TOTAL BASE BID PLUS BID ALTERNATE #1, PLUS CHANGE ORDERS					\$771,243.00	\$156,058.00		\$386,848.95		\$542,906.95	
RETAINAGE (5% Retainage)					\$38,562.15	\$7,802.90		\$ 19,342.45		\$27,145.35	
TOTAL AMOUNT DUE:						\$148,255.10		\$367,506.50		\$515,761.60	

Galowitz Olson, PLLC  
10390 39th Street North  
Lake Elmo, Minnesota 55042  
Office: (651) 777-6960  
Fax: (651) 777-8937

Ramsey-Washington Metro Watershed District  
C/O Tina Carstens  
2665 Noel Drive  
Little Canada MN 55117

Page: 1  
November 23, 2021  
File No: 9M

General Account

Balance

\$1,589.00

# Permit Application Coversheet

Date December 08, 2021

Project Name RWMWD 2022 CIP Maintenance/Repairs

Project Number 21-31

Applicant Name Tina Carstens, RWMWD

Type of Development Maintenance

## Property Description

This project is led by Ramsey-Washington Metro Watershed District (RWMWD) and is located at various locations throughout the District. See map included for site locations and descriptions. The project includes maintenance activities related to sediment removal, erosion repair, and general maintenance of existing storm sewer infrastructure. Wetland Conservation Act (WCA) approval is required for Sites #9, 10, and 11 (#21-22 WCA). District staff consulted with the DNR, and no public waters permit is required. All other required permits and access agreements must be obtained prior to start of construction. Disturbed areas will be restored with native seed. No net fill is proposed in the 100-year floodplain.

## Watershed District Policies or Standards Involved:

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> <i>Wetlands</i>   | <input checked="" type="checkbox"/> <i>Erosion and Sediment Control</i> |
| <input type="checkbox"/> <i>Stormwater Management</i> | <input checked="" type="checkbox"/> <i>Floodplain</i>                   |

## Water Quantity Considerations

There are no water quantity considerations.

## Water Quality Considerations

### *Short Term*

The proposed erosion and sediment control plan is sufficient to protect downstream water resources during construction.

### *Long Term*

There are no long term water quality considerations.

## Staff Recommendation

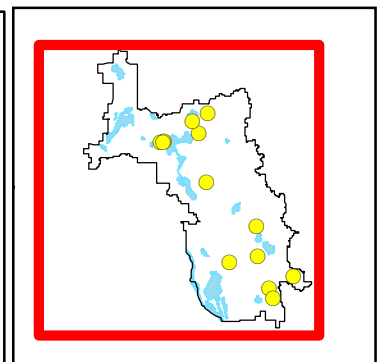
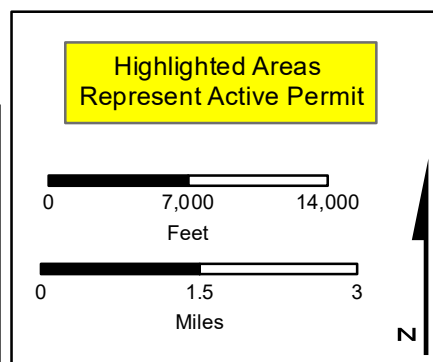
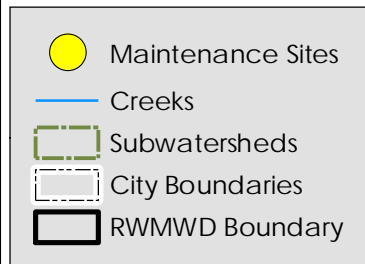
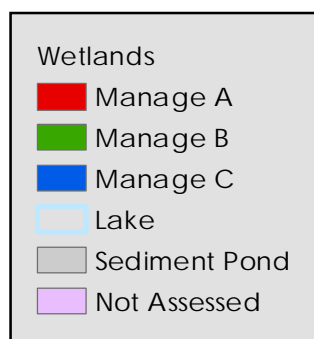
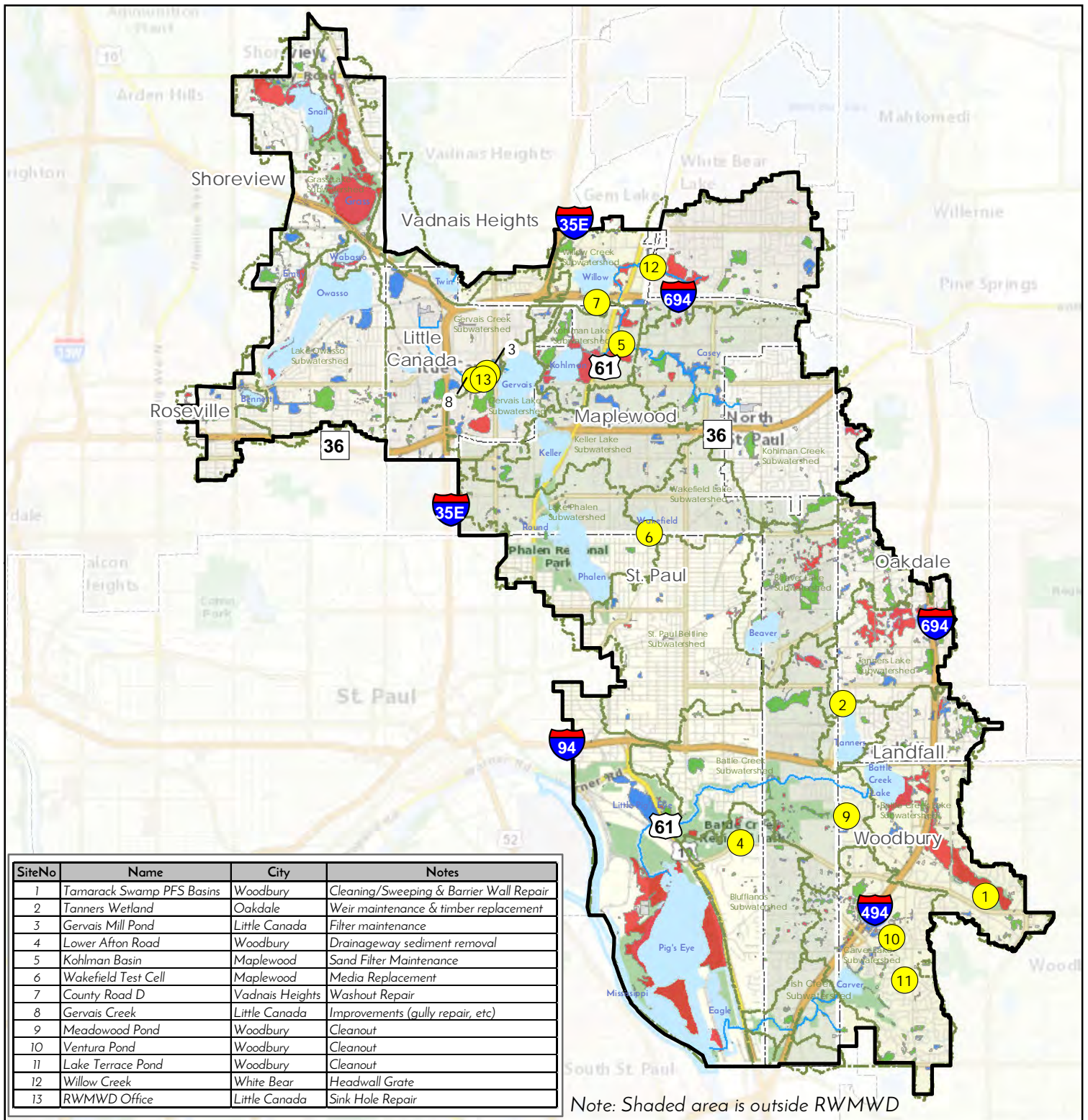
Staff recommends approval of this permit.

## Attachments:

- ☒ Project Location Map
- ☐ Project Grading Plan



# #21-31 RWMWD 2022 CIP Maintenance/Repairs



21-31

## Special Provisions

None

# Permit Application Coversheet

Date December 08, 2021

Project Name Rooney 2nd Addition

Project Number 21-32

Applicant Name John Sharkey, GreenHalo Builds, LLC

Type of Development Residential

---

## Property Description

This project is located at 1800 County Rd E East in the City of White Bear Lake. The applicant is proposing to redevelop the site into a subdivision of single family homes. The total site area is 4.6 acres. An infiltration basin is proposed to meet stormwater treatment requirements. Pretreatment will include a sump manhole inlet with SAFL baffle. A no wetland determination was approved on 7/1/20 (#20-09 WCA).

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## Watershed District Policies or Standards Involved:

- |  |   |
|--|---|
| <input type="checkbox"/> <i>Wetlands</i>                         | <input checked="" type="checkbox"/> <i>Erosion and Sediment Control</i> |
| <input checked="" type="checkbox"/> <i>Stormwater Management</i> | <input type="checkbox"/> <i>Floodplain</i>                              |

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## Water Quantity Considerations

The proposed stormwater management plan is sufficient to handle the runoff from the site.

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## Water Quality Considerations

### *Short Term*

The proposed erosion and sediment control plan is sufficient to protect downstream water resources during construction.

### *Long Term*

The proposed stormwater management plan is sufficient to protect the long term quality of downstream water resources.

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## Staff Recommendation

Staff recommends approval of this permit with the special provisions.

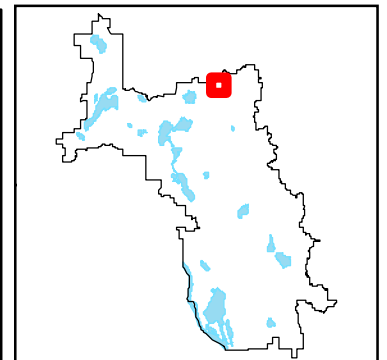
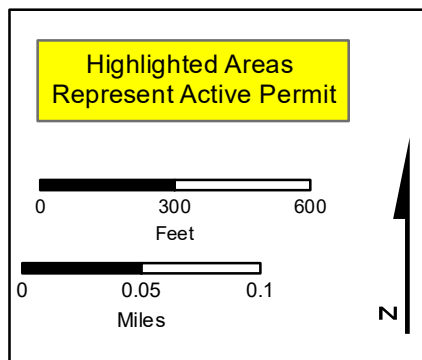
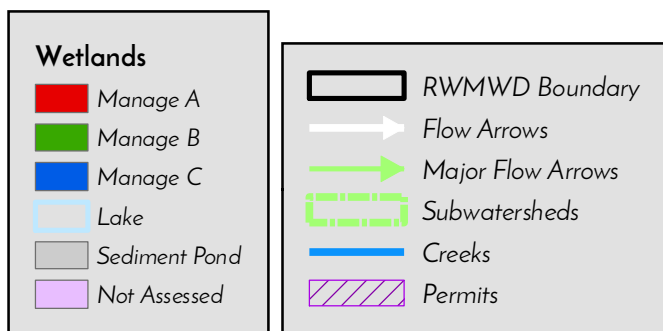
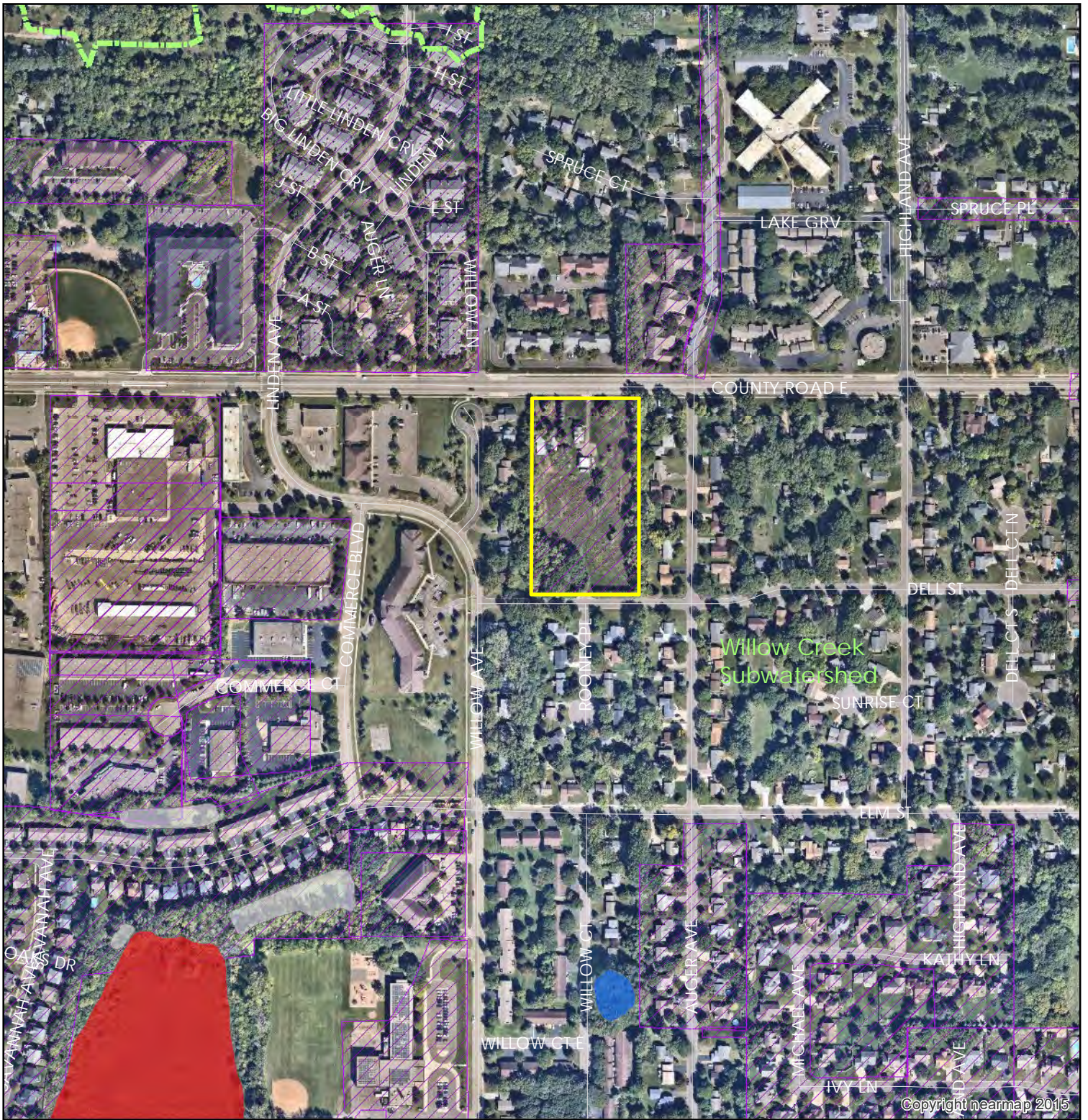
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## Attachments:

- ☒ Project Location Map
- ☒ Project Grading Plan



# #21-32 Rooney 2nd Addition





### Special Provisions

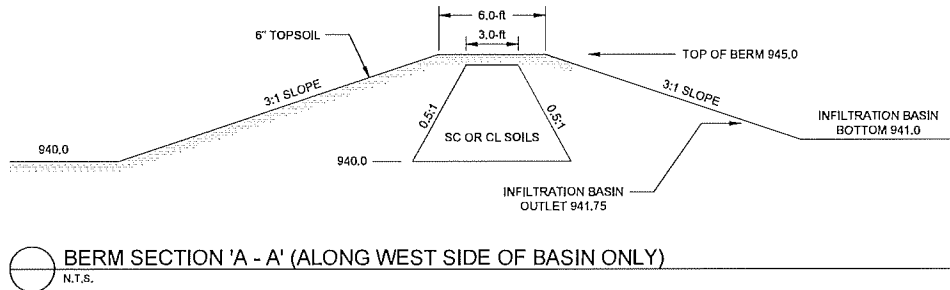
1. The applicant shall submit confirmation from the city that the proposed rate increase in the 10-year event to the low area on the southwest corner of the site meets their standards, and that the adjacent property owner has approved the increase, or revise the design such that there is no localized increase in this area.
2. The applicant shall submit the escrow fee of \$17,500.
3. The applicant shall submit the final, signed plans set.
4. The applicant shall submit the executed stormwater maintenance agreement.
5. The applicant shall submit contact information for the trained erosion control coordinator responsible for implementing the Stormwater Pollution Prevention Plan (SWPPP).
6. The applicant shall submit the approved Minnesota Pollution Control Agency's NPDES Construction Permit coverage for the project.

# GENERAL NOTES

1. THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF EXISTING UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO TYPE AND LOCATION OF UTILITIES AS NECESSARY TO AVOID DAMAGE TO THESE UTILITIES.
2. CALL "811" AT LEAST 48 HOURS PRIOR TO ANY EXCAVATIONS FOR EXISTING UTILITIES LOCATIONS.
3. THE CONTRACTOR SHALL FIELD VERIFY SIZE, ELEVATION, AND LOCATION OF EXISTING UTILITIES AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO THE START OF INSTALLATIONS.
4. ALL UTILITY AND STREET INSTALLATIONS SHALL CONFORM TO THE CITY STANDARD SPECIFICATIONS AND DETAIL PLATES.
5. ALL WORK SHALL BE PERFORMED DURING CITY APPROVED WORKING HOURS.
6. STORAGE OF MATERIALS OR EQUIPMENT SHALL NOT BE ALLOWED ON PUBLIC STREETS OR WITHIN PUBLIC RIGHT-OF-WAY.
7. NOTIFY CITY A MINIMUM OF 48 HOURS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
8. ALL ELECTRIC, TELEPHONE, AND GAS EXTENSIONS INCLUDING SERVICE LINES SHALL BE CONSTRUCTED TO THE APPROPRIATE UTILITY COMPANY SPECIFICATIONS. ALL UTILITY DISCONNECTIONS SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY COMPANY.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING, MAINTAINING TRAFFIC CONTROL, SUCH AS BARRICADES, WARNING SIGNS, DIRECTIONAL SIGNS, FLAGMEN AND LIGHTS, AS NECESSARY TO CONTROL THE MOVEMENT OF TRAFFIC.

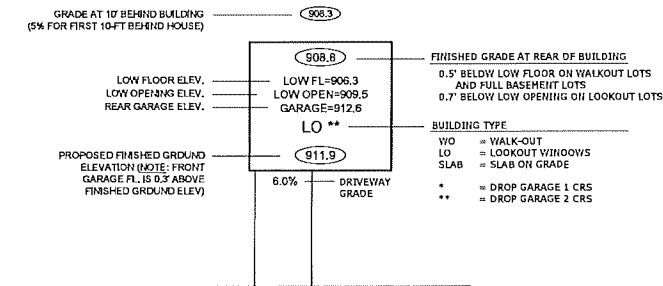
# ADDITIONAL NOTES

1. CONTACT THE CITY AT (651) 429-6587 OR CTALLON@WHITEBEARLAKE.ORG FOR A TREE PROTECTION FENCE INSPECTION PRIOR TO ANY REMOVALS OR GRADING WORK.
2. CONTACT THE CITY AT (651) 429-6587 OR CTALLON@WHITEBEARLAKE.ORG FOR AN INFILTRATION BASIN INSPECTION AFTER FINAL GRADING AND PRIOR TO INSTALLATION OF SEED AND EROSION CONTROL BLANKET.
3. NOTIFY NICOLE SODERHOLM FROM RAMSEY WASHINGTON METRO WATERSHED DISTRICT AT (651) 792-7976 PRIOR TO BEGINNING ANY AND ALL CONSTRUCTION ACTIVITY FOR AN INITIAL SWPPP INSPECTION.
4. NOTIFY NICOLE SODERHOLM FROM RAMSEY WASHINGTON METRO WATERSHED DISTRICT AT (651) 792-7976 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION OF THE INFILTRATION BASIN(S).
5. THE SPECIFIED EROSION AND SEDIMENT CONTROL MEASURES ARE THE MINIMUM. CONTRACTOR TO PROVIDE ADDITIONAL PRACTICES IF REQUIRED DURING THE COURSE OF CONSTRUCTION.
6. CONTRACTOR SHALL NOTIFY BEN HOFSCHULTE FROM RAMSEY COUNTY AT 651-266-7198 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION WITHIN OR ADJUTING COUNTY ROAD E, RIGHT-OF-WAY PERMIT FROM RAMSEY COUNTY SHALL BE REQUIRED.



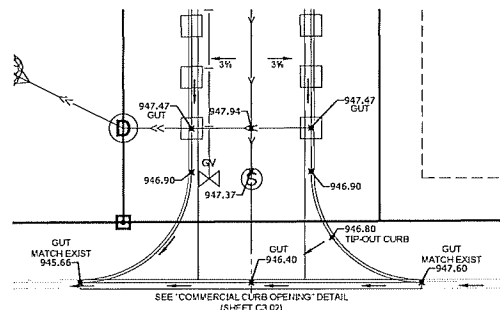
# LEGEND

- EXISTING CATCH BASIN
- EXISTING CURB STOP
- EXISTING ELECTRICAL BOX
- EXISTING ELECTRICAL MANHOLE
- EXISTING EXISTING SPOT ELEVATION
- EXISTING HYDRANT
- EXISTING MAILBOX
- EXISTING POWER POLE
- EXISTING SANITARY SEWER MANHOLE
- EXISTING STORM SEWER APRON
- EXISTING TELEPHONE PEDESTAL
- EXISTING WATER VALVE
- EXISTING FENCE
- EXISTING RETAINING WALL
- EXISTING EXISTING CONTOURS (W/ LIDAR)
- EXISTING TREE LINE
- EXISTING UNDERGROUND GAS LINE
- EXISTING UNDERGROUND FIBER OPTIC LINE
- EXISTING EXISTING SANITARY SEWER
- EXISTING EXISTING STORM SEWER
- EXISTING EXISTING WATER MAIN
- EXISTING OVERHEAD UTILITY
- SOIL BORING (HAUGO GEOTECHNICAL)
- PROPOSED WATER PIPE
- PROPOSED SANITARY SEWER PIPE
- PROPOSED STORM SEWER PIPE
- PROPOSED STORM MANHOLE
- PROPOSED CATCH BASIN
- PROPOSED FLARED-END SECTION
- PROPOSED GATE VALVE
- PROPOSED HYDRANT
- PROPOSED SANITARY SEWER MANHOLE
- PROPOSED DIRECTION OF DRAINAGE
- PROPOSED POINTS (CENTERLINE, BITUMINOUS SURFACE, OR GROUND SURFACE UNLESS OTHERWISE INDICATED)
- PROPOSED CATCH BASIN INLET PROTECTION
- PROPOSED SILT FENCE
- MAINTENANCE ACCESS ROUTE
- EXISTING TREE
- EXISTING TREE TO BE REMOVED (SEE SHEET C1.02)
- TREE PROTECTION FENCE TO BE INSTALLED PER CITY SPECIFICATIONS



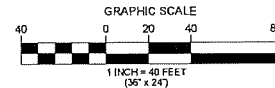
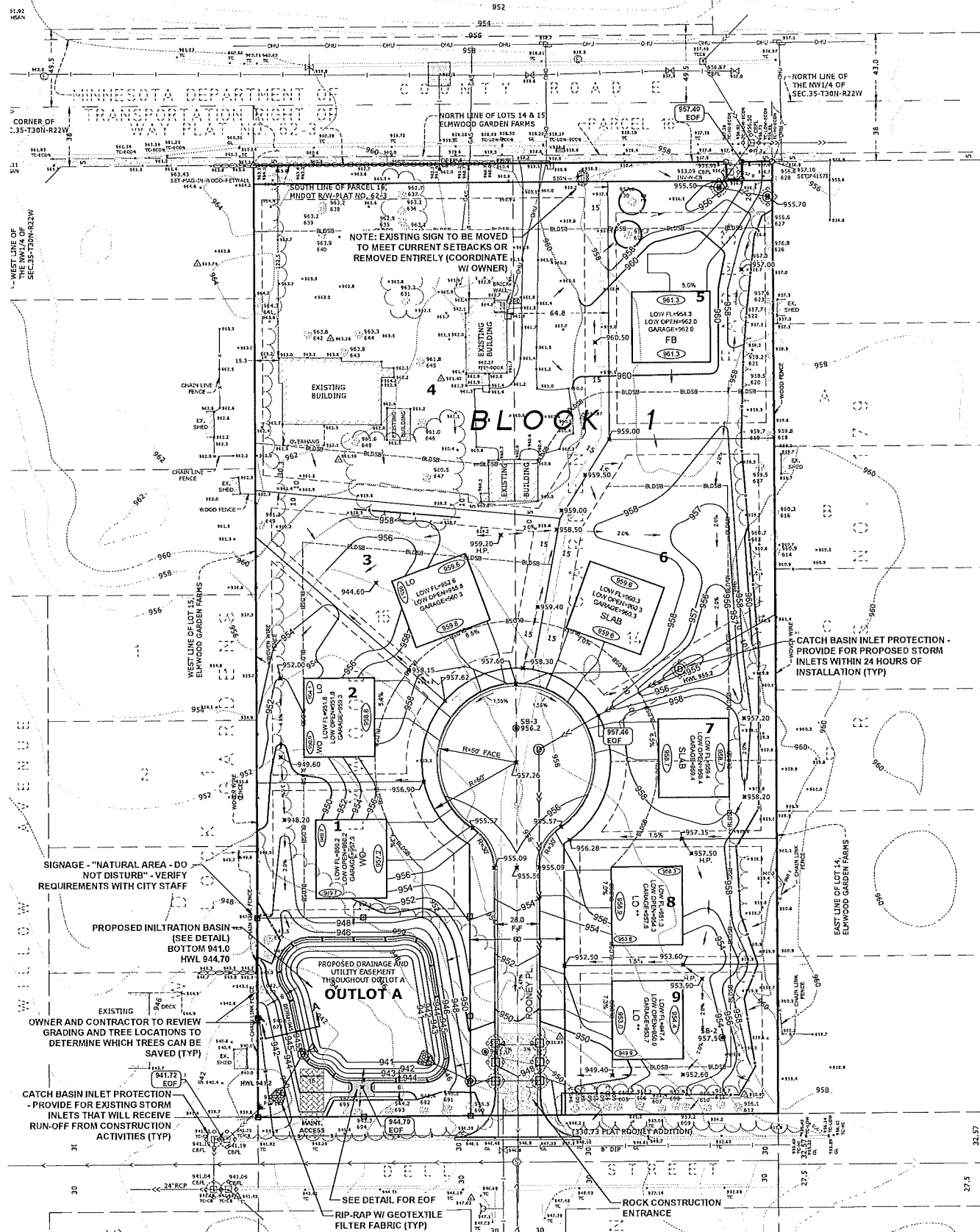
# TYPICAL LOT LAYOUT

N.T.S.



# ENTRANCE DETAIL

SCALE = 1:20 (THIS DETAIL ONLY)



NORTH



6778 LAKE DRIVE  
SUITE 110  
LINO LAKES, MN 55014  
PHONE: (651) 361-6210  
FAX: (651) 361-6701

DRAWN BY: CWP  
AG  
JOB NO: 20-191B  
DATE: 08/17/20

NO.	DATE	DESCRIPTION
1	8/20/20	BASIN CHANGED TO INFILTRATION
2	10/26/20	RESUBMIT CITY REVIEW COMMENTS
3	11/22/21	CITY & RWMD REVIEW COMMENTS
4		
5		
6		
7		
8		

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY  
A LICENSED PROFESSIONAL ENGINEER UNDER  
THE LAWS OF THE STATE OF MINNESOTA.

ADAM GUNDEL  
Date: 11/22/2021  
License No. 43953

**ROONEY 2ND ADDITION**  
CITY OF WHITE BEAR LAKE, MN  
**GRADING, DRAINAGE & ESC PLAN**  
PREPARED FOR: GREENHOLD BUILDS, LLC

SHEET  
**C1.01**

# Permit Application Coversheet

Date December 08, 2021

Project Name Owasso Warehouse

Project Number 21-33

Applicant Name Dan Oren, Owasso, LLC

Type of Development Commercial/Retail

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## Property Description

This project is located at Owasso Boulevard East and Spruce Street in the City of Little Canada. The applicant is proposing to construct a warehouse with associated site improvements including a building addition. The total disturbed area is 3.2 acres. An iron-enhanced filtration basin is proposed to meet stormwater treatment requirements. Filtration is being proposed due to poor soils.

---

## Watershed District Policies or Standards Involved:

- |  |   |
|--|---|
| <input type="checkbox"/> <i>Wetlands</i>                         | <input checked="" type="checkbox"/> <i>Erosion and Sediment Control</i> |
| <input checked="" type="checkbox"/> <i>Stormwater Management</i> | <input type="checkbox"/> <i>Floodplain</i>                              |

---

## Water Quantity Considerations

The proposed stormwater management plan is sufficient to handle the runoff from the site.

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## Water Quality Considerations

### *Short Term*

The proposed erosion and sediment control plan is sufficient to protect downstream water resources during construction.

### *Long Term*

The proposed stormwater management plan is sufficient to protect the long term quality of downstream water resources.

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## Staff Recommendation

Staff recommends approval of this permit with the special provisions.

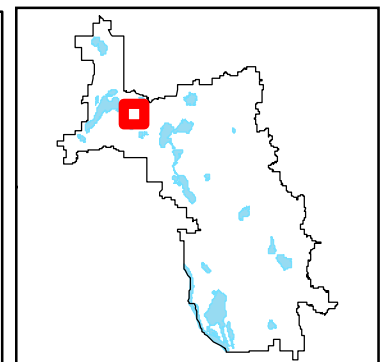
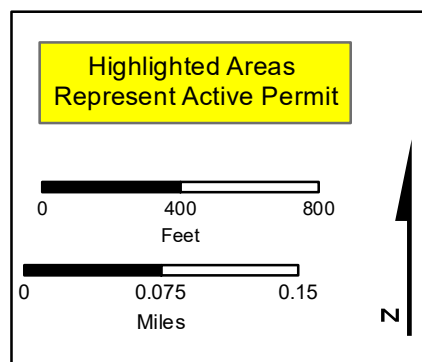
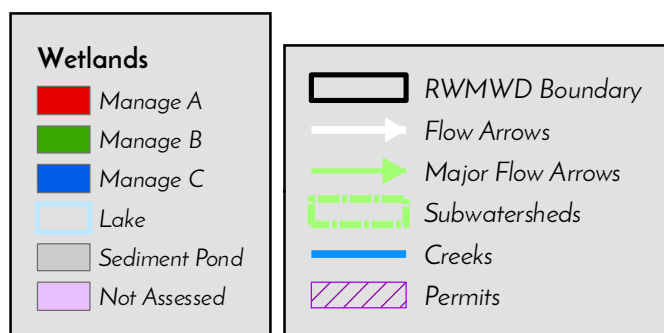
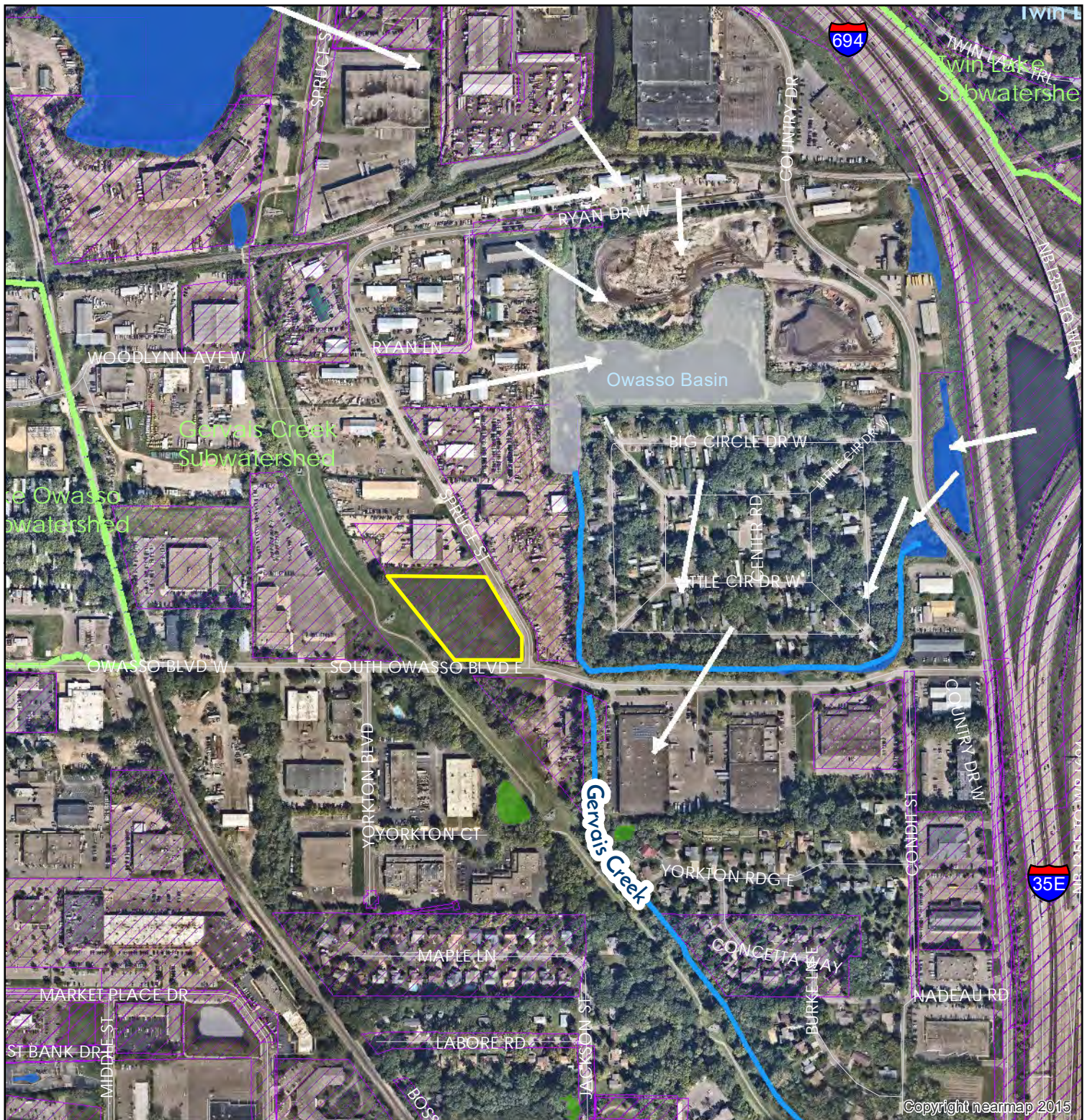
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## Attachments:

- ☒ Project Location Map
- ☒ Project Grading Plan



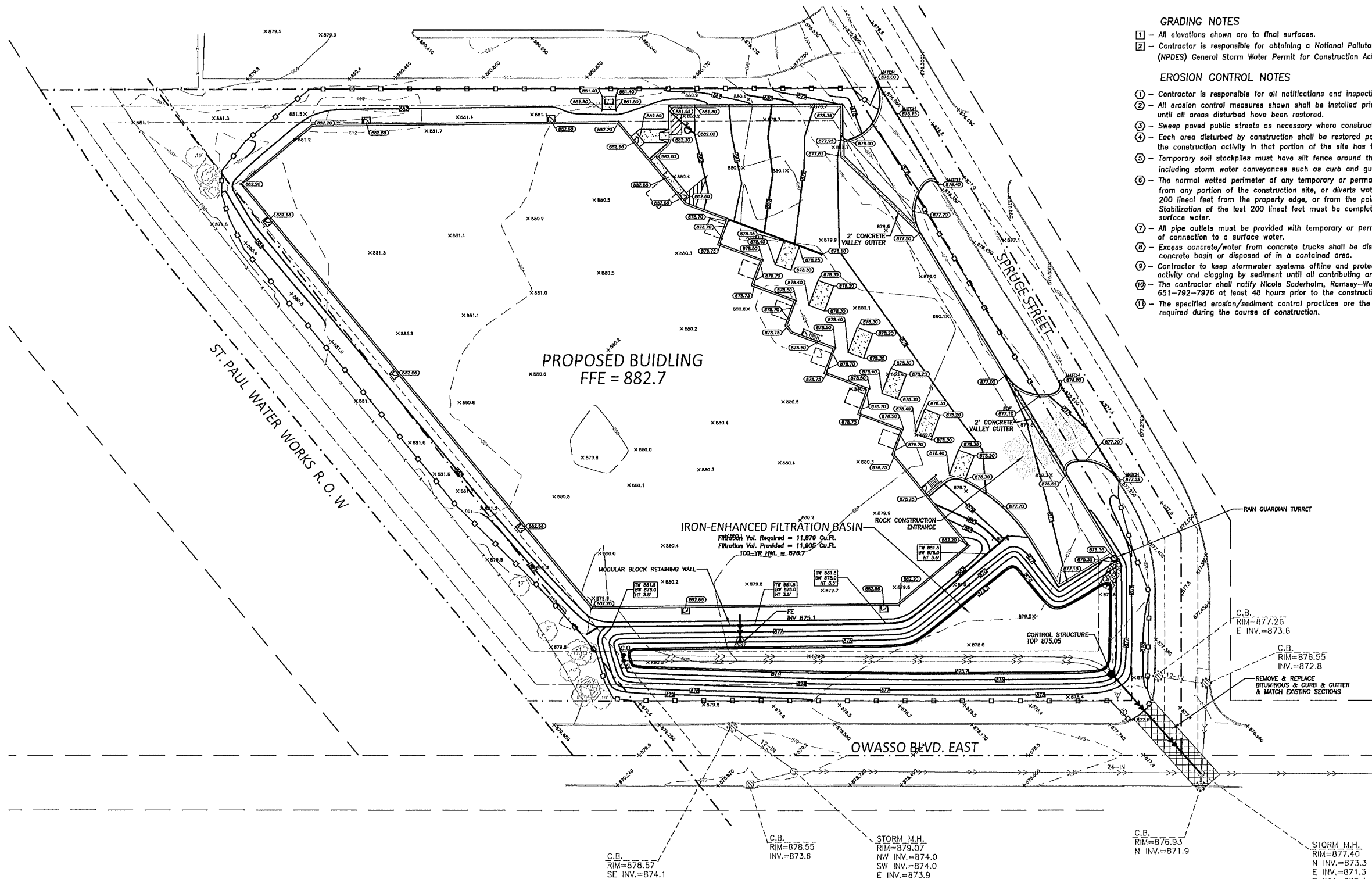
# #21-33 Owasso Warehouse





### Special Provisions

1. The applicant shall submit the escrow fee of \$16,000.
2. The applicant shall submit the executed stormwater maintenance agreement.
3. The applicant shall submit a draft, site-specific BMP Operations & Maintenance Plan.
4. The applicant shall submit a Stormwater Pollution Prevention Plan (SWPPP).
5. The applicant shall submit contact information for the trained erosion control coordinator responsible for implementing the SWPPP.
6. The applicant shall submit a copy of the approved Minnesota Pollution Control Agency's NPDES Construction Permit coverage for the project.



GRADING NOTES

- 1 - All elevations shown are to final surfaces.
- 2 - Contractor is responsible for obtaining a National Pollutant Discharge Elimination System (NPDES) General Storm Water Permit for Construction Activity before construction begins.

EROSION CONTROL NOTES

- 1 - Contractor is responsible for all notifications and inspections required by General Storm Water Permit.
- 2 - All erosion control measures shown shall be installed prior to grading operations and maintained until all areas disturbed have been restored.
- 3 - Sweep paved public streets as necessary where construction sediment has been deposited.
- 4 - Each area disturbed by construction shall be restored per the specifications within 14 days after the construction activity in that portion of the site has temporarily or permanently ceased.
- 5 - Temporary soil stockpiles must have silt fence around them and cannot be placed in surface waters, including storm water conveyances such as curb and gutter systems, or conduits and ditches.
- 6 - The normal wetted perimeter of any temporary or permanent drainage ditch or swale that drains water from any portion of the construction site, or diverts water around the site, must be stabilized within 200 lineal feet from the property edge, or from the point of discharge into any surface water. Stabilization of the last 200 lineal feet must be completed within 24 hours after connecting to a surface water.
- 7 - All pipe outlets must be provided with temporary or permanent energy dissipation within 24 hours of connection to a surface water.
- 8 - Excess concrete/water from concrete trucks shall be disposed of in portable washout concrete basin or disposed of in a contained area.
- 9 - Contractor to keep stormwater systems offline and protected from construction activity and clogging by sediment until all contributing areas are permanently restored.
- 10 - The contractor shall notify Nicole Saderholm, Ramsey-Washington Metro Watershed District, at 651-792-7976 at least 48 hours prior to the construction of any volume reduction BMPs.
- 11 - The specified erosion/sediment control practices are the minimum. Additional practices may be required during the course of construction.

LEGEND

- PROPOSED MANHOLE
- PROPOSED CLEANOUT
- PROPOSED HYDRANT
- PROPOSED GATE VALVE
- ▲ PROPOSED FLARED END
- PROPOSED STORM SEWER
- PROPOSED CONCRETE
- PROPOSED STD. DUTY BITUMINOUS
- PROPOSED CONTOUR
- PROPOSED ELEVATION
- SILT FENCE
- INLET PROTECTION DEVICE
- BOUNDARY/ROW/BLOCK LINE
- EASEMENT
- BUILDING/PARKING SETBACK LINE
- DRAINAGE ARROW
- EXISTING STORM SEWER
- EXISTING CONTOUR
- x 995.50 EXISTING ELEVATION

INSPECTION AND MAINTENANCE

- The site must be inspected once every seven (7) days during active construction and within 24 hours after a rainfall event greater than 0.5 inches in 24 hours.
- All inspections and maintenance conducted must be recorded in writing and records retained with the SWPPP.
- Areas of the site that have undergone final stabilization, may have the inspection of these areas reduced to once per month.
- All silt fence must be repaired, replaced, or supplemented within 24 hours when they become nonfunctional or the sediment reaches 1/3 of the height of the fence.
- Temporary and permanent sedimentation basins must be drained and the sediment removed when the depth of the sediment reaches 1/2 the storage volume. Removal must be completed within 72 hours of discovery.
- Surface waters and conveyance systems must be inspected for evidence of sediment being deposited. Removal and stabilization must take place within seven (7) days of discovery unless precluded by legal, regulatory, or physical access constraints.
- Construction site vehicle exit locations must have sediment removed from off-site paved surfaces within 24 hours of discovery.
- Infiltration areas shall be graded to finished grade when all contributing drainage areas have been stabilized. Protect infiltration area from sediment and heavy equipment compaction during/after construction with silt fence.

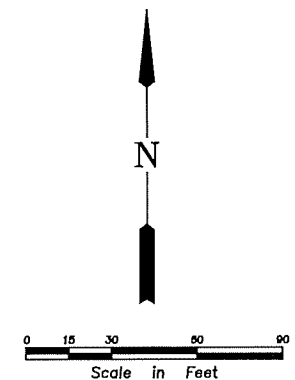
POLLUTION PREVENTION MANAGEMENT

- All solid waste must be disposed of off-site per the MPCA disposal requirements.
- All hazardous waste must be properly stored with restricted access to storage areas to prevent vandalism. Storage and disposal of hazardous waste must be in compliance with MPCA Regulations.

Boundary, Topographical & Storm Sewer information was prepared by Harry S. Johnson Land Surveyors. This information has not been verified as to its accuracy or completeness by Rehder & Associates, Inc.

Sanitary sewer and watermain information was taken from Record Plans provided by the City of Little Canada. This information has not been verified as to its accuracy or completeness by Rehder & Associates, Inc.

NOTE: INSTALL INLET PROTECTION DEVICE IN NEAREST DOWNSTREAM CATCH BASINS OR AS REQUIRED BY THE CITY.



3440 Federal Drive, Suite 110  
Saginaw, MI 48606  
www.rehder.com

**REHDER & ASSOCIATES, INC.**  
Civil Engineers & Land Surveyors

PROJECT NO.: 211-2136.015 DRAWING FILE: 2136015.DWG

I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Michigan.  
**PRELIMINARY**

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Reg. No.: \_\_\_\_\_

Issued  
REWARD SUBMITTAL  
ADDRESS REWARD COMMENTS

11-10-21  
11-28-21

GRADING, DRAINAGE & EROSION CONTROL PLAN  
OWASSO WAREHOUSE  
CITY OF LITTLE CANADA

SHEET NUMBER  
**C1**

# Consent Agenda Item

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**Board Meeting Date:** December 8, 2021

**Consent Agenda Item No:** 3D

**Preparer:** Tina Carstens, Administrator

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**Item Description:** Approval of the 2022 Service Agreement with Washington Conservation District (WCD) for BMP Incentive Program and Water Quality Monitoring.

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**Background:**

This is a yearly agreement with WCD to provide technical services for the Stewardship Grant Program and a small amount of water quality monitoring support in Washington County. The quality of support we receive from WCD in these two areas is economical and we have been happy with the work done by the staff. The staff meets with landowners in Washington County, provide education and potentially design BMPs for their properties. The total 2022 agreement is \$20,500 for BMP work and \$483 for water monitoring services. This is an increase of \$500 for the BMP work and \$6 decrease for the water monitoring services.

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**Applicable District Goal and Action Item:**

**Goal: Achieve quality surface water** – the District will maintain or improve surface water quality to support healthy ecosystems and provide the public with a wide range of water-based benefits.

**Action Items:** Encourage and provide technical assistance to individuals to implement water quality improvement practices at their homes and businesses and in public places.

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**Staff Recommendation:**

Approve the service agreement.

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**Financial Implications:**

The costs incurred under this agreement are budgeted for through the Stewardship Grant Program Fund.

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**Board Action Requested:**

Approve the 2022 Service Agreement with Washington Conservation District.



**2022 SERVICE AGREEMENT  
BETWEEN  
WASHINGTON CONSERVATION DISTRICT  
AND RAMSEY WASHINGTON METRO WATERSHED DISTRICT**

**A. PARTIES**

This Agreement is made and entered into by Washington Conservation District, (WCD), and the Ramsey Washington Metro Watershed District (Watershed District).

**B. PURPOSE**

WHEREAS, the Watershed District has requested assistance from the WCD to implement the policies specified in MINN. STAT. §§ 103A.206 and 103D.201; and

WHEREAS, the WCD is authorized to enter agreements to provide such assistance pursuant to MINN. STAT. §§ 103C.331, SUBD. 3 and 7 and 103D.335, subd. 21.

NOW, THEREFORE, the parties agree as follows:

**C. TERM OF AGREEMENT**

The term of this agreement shall be from January 1, 2022 to December 31, 2022 unless extended or terminated earlier as provided herein.

**D. SCOPE OF SERVICES**

The WCD will perform all services and furnish and deliver work products generally described in the attached Exhibits.

**E. COST**

In full consideration for services under this agreement, the WCD shall charge the RWMWD for its services at the rate set forth in Section F. Costs for services for activities detailed in the attached Exhibits include:

Exhibit A: Technical Services for BMP Coast Share Program - \$20,500

Exhibit B: Water Monitoring Services - \$483

**Total 2022 Agreement: \$20,983**

Any additional costs for special studies or capital projects must be set forth in a written amendment to this Agreement.

## **F. BILLING RATE AND PAYMENTS**

1. Services in Exhibit A are billed on an hourly basis at the rate of \$40.00 - \$87.00 per hour, based on personnel and task.

Seasonal	\$40
Technician	\$61
Senior Technician/Specialist	\$66
Senior Tech II/Specialist II	\$72
Senior Specialist	\$78
Manager/Administrator/Engineer	\$87

Services in Exhibit B are billed on a lump sum basis, and on an actual cost basis for lab and project expenses.

Invoices for Exhibit A will be sent on a monthly basis, invoices for Exhibit B will be sent on a quarterly basis and both will list specifically the work performed.

2. Project expenses will be billed as they are accrued.
3. Invoices are payable by the RWMWD within 60 days.
4. Office supplies, normal office reproduction expenses, and transportation are included in the hourly rate. Other expenses are to be reimbursed at actual cost.

## **G. EQUAL EMPLOYMENT OPPORTUNITY- CIVIL RIGHTS**

During the performance of this Agreement, the WCD agrees to the following:

No person shall, on the grounds of race, color, religion, age, sex, disability, marital status, public assistance, criminal record, creed or national origin, be excluded from full employment rights in, be denied the benefits of, or be otherwise subjected to discrimination under any program, service, or activity under the provisions of and all applicable federal and state laws against discrimination including the Civil Rights Act of 1964.

## **H. STANDARDS**

The WCD shall comply with all applicable Federal and State statutes and regulations as well as local ordinances now in effect or hereafter adopted. Failure to meet the requirements of the above may be cause for cancellation of this contract effective the date of receipt of the Notice of Cancellation.

## **I. DATA PRIVACY**

All data collected, created, received, maintained, or disseminated, or used for any purpose in the course of the WCD's performance of the Agreement is governed by the Minnesota Government Data Practices Act, Minnesota 1984, Section 13.01, et seq. Or any other applicable state statutes and state rules adopted to implement the Act, as well as state statutes and federal regulations on data privacy. The WCD agrees to abide by these statutes, rules and regulations and as they may be amended.

## **J. AUDITS, REPORTS, AND MONITORING PROCEDURES**

The WCD will:

1. Maintain records that reflect all revenues, cost incurred and services provided in the performance of the Agreement.
2. Agree that the County, the State Auditor, or legislative authority, or any of their duly authorized representatives at any time during normal business hours, and as often as they may deem reasonably necessary, shall have access to the rights to examine audit, excerpt, and transcribe any books, documents, papers, records, etc., and accounting procedures and practices of the WCD which are relevant to the contract.

## **K. INDEMNITY**

The WCD and the Watershed District mutually agree, to the fullest extent permitted by law, to indemnify and hold each other harmless for any and all damages, liability or cost (including reasonable attorneys' fees and costs of defense) arising from their own negligent acts, errors or omissions in the performance of their services under this agreement, to the extent each party is responsible for such damages and losses on a comparative basis of fault. Parties agree to provide proof of contractual liability insurance upon request. This paragraph does not diminish, with respect to any third party, any defense, immunity or liability limit that the WCD or the Watershed District may enjoy under law.

## **L. INDEPENDENT CONTRACTOR**

It is agreed that nothing herein contained is intended or should be construed in any manner as creating or establishing the relationship of co-partners between the parties hereto or as constituting the WCD as the agent, representative, or employee of Watershed District for any purpose or in any manner whatsoever. The WCD is to be and shall remain an independent contractor with respect to all services performed under this Agreement.

The WCD represents that it has, or will secure at its own expense, all personnel required in performing services under this Agreement. Any and all personnel of the WCD or other person, while engaged in the performance of any work or services required by the WCD under this Agreement, shall have no contractual relationship with the Watershed District and shall not be considered employees of the Watershed District.

## **M. MODIFICATIONS**

Any material alteration or variation shall be reduced to writing as an amendment and signed by the parties. Any alteration, modification, or variation deemed not to be material by written agreement of the WCD and the Watershed District shall not require written approval.

## **N. MERGER**

It is understood and agreed that the entire agreement of the parties is contained here, except as modified during the term of the Agreement by a writing under Paragraph M above concerning a non-material change, and that this contract supersedes oral agreements and negotiations between the parties relating to this subject matter. All items referred to in this contract are incorporated or attached and deemed to be part of the contract.

## **O. TERMINATION**

Either the WCD or the Watershed District may terminate this Agreement with or without cause by giving the other party ninety (90) days written notice prior to the effective date of such termination. If the Watershed District terminates this Agreement, it may specify work to be performed by the WCD before termination is effective and shall pay the WCD for services performed by the WCD up to the time specified for termination. If the WCD terminates the Agreement, it will not be compensated for part completion of a task except to the extent part completion has value to the Watershed District.

## **P. OWNERSHIP OF DOCUMENTS AND INTELLECTUAL PROPERTY**

All property of the Watershed District used, acquired or created in the performance of work under this Agreement, including documents and records of any kind, shall remain the property of the Watershed District. The Watershed District shall have the sole right to use, sell, license, publish, or otherwise disseminate any product developed in whole or in part during the performance of work under this Agreement.

**2022 SERVICE AGREEMENT  
BETWEEN  
WASHINGTON CONSERVATION DISTRICT  
AND RAMSEY WASHINGTON METRO WATERSHED DISTRICT  
RWMWD BMP COST-SHARE PROGRAM**

IN TESTIMONY WHEREOF the parties have duly executed this agreement by their duly authorized officers.

APPROVED:

Watershed District

WCD

BY: \_\_\_\_\_  
Board President Date

BY: \_\_\_\_\_  
Board Chair Date

BY: \_\_\_\_\_  
District Administrator Date

BY: \_\_\_\_\_  
WCD Manager Date

Approval as to form and execution:

\_\_\_\_\_  
Date

## **EXHIBIT A**

### **2022 RWMWD BMP COST-SHARE PROGRAM**

#### **TASKS**

**1. Project Oversight**

All work performed by the WCD will be at the direction of the RWMWD staff.

**2. Landowner Outreach**

Targeted and broad-based outreach techniques will be implemented through a coordinated effort of the RWMWD and WCD. Outreach will be coordinated with educational efforts by the RWMWD.

**3. Project Database**

Project information will be maintained by the RWMWD. Information on assistance provided by the WCD will be regularly communicated to the RWMWD staff Coordinator.

**4. Respond to inquiries from the public**

The RWMWD will act as the primary and first responder to inquiries from the public regarding the BMP Program. The WCD and the RWMWD will jointly provide responses to the public regarding general program information, program eligibility, best management practice information, and general watershed information.

**5. Site Reviews and Project Evaluation**

Initial site visits will be provided by the WCD County-wide and are part of the standard WCD programs and not charged under this contract. Follow-up reviews and subsequent site visits of potential BMP implementation sites will be conducted under this contract. Other activities will include:, assessing BMP options which will adequately address the problem, discussing BMP alternatives with landowners, and promoting implementation of BMPs. WCD will assist program applicants with identification of supplemental funding sources if needed. Educational materials will be distributed during the site visit.

**6. BMP Design and Contractor Assistance**

The WCD will coordinate BMP design assistance. Design support will be provided by WCD technical resources and/or obtaining assistance from an appropriate technical agency, organization, or the Watershed District. WCD will assist landowners with obtaining qualified contractors to install BMPs if requested.

**7. Construction Monitoring (Site inspections)**

The WCD will monitor construction activities to verify proper implementation of BMPs.

**8. Miscellaneous Services**

Other services may be provided as requested by the Watershed District to implement and carry out the Program.

## EXHIBIT B

### 2022 WATER MONITORING SERVICES

Lake Gage Monitoring	Type	Labor	Travel Time/Mileage	Lab	Total
Battle Creek	LEA 1	\$161	\$0	\$0	\$161
Carver	LEA 1	\$161	\$0	\$0	\$161
Tanners	LEA 1	\$161	\$0	\$0	\$161
<b>Total Cost</b>		\$483		\$0	<b>\$483</b>

# Consent Agenda Item

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**Board Meeting Date:** December 8, 2021

**Consent Agenda Item No:** 3E

**Preparer:** Tina Carstens, Administrator

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**Item Description:** Approval of the 2022 Service Agreement with Ramsey County – Parks and Recreation Department – Soil & Water Conservation division (SWCD) for the BMP Incentive Program.

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## **Background:**

This is a yearly agreement with the Ramsey SWCD to provide technical services for the Stewardship Grant Program in Ramsey County. The quality of support we receive from SWCD in this area is economical and we have been happy with the work done by the staff. The staff meets with landowners in Ramsey County, provide education and potentially design BMPs for their properties. The total 2022 agreement is a not to exceed of \$70,000 for BMP work. This amount is increased by \$5,000 from our 2021 agreement. This takes into account additional technical assistance expected for the continued oversight on the Snail and Twin Lakes shoreline restoration as well as the new project on Lake Owasso. They are also increasing their rate (first time in 10 years) from \$72/hour to \$75/hour. The total is a not-to-exceed number.

---

## **Applicable District Goal and Action Item:**

**Goal: Achieve quality surface water** – the District will maintain or improve surface water quality to support healthy ecosystems and provide the public with a wide range of water-based benefits.

**Action Items:** Encourage and provide technical assistance to individuals to implement water quality improvement practices at their homes and businesses and in public places.

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## **Staff Recommendation:**

Approve the service agreement.

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## **Financial Implications:**

The costs incurred under this agreement are budgeted for through the Stewardship Grant Program Fund.

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## **Board Action Requested:**

Approve the 2022 Service Agreement with Ramsey County – Parks and Recreation Department – Soil & Water Conservation division (SWCD) for the BMP Incentive Program.

**2022 SERVICE AGREEMENT  
BETWEEN  
RAMSEY COUNTY  
AND RAMSEY- WASHINGTON METRO WATERSHED DISTRICT  
RWMWD BMP COST-SHARE PROGRAM**

**A. PARTIES**

This is an Agreement between Ramsey County, a political subdivision of the State of Minnesota, on behalf of its Parks & Recreation department – Soil & Water Conservation division (SWCD), 2015 Van Dyke Street, Maplewood, MN 55109, and the Ramsey-Washington Metro Watershed District (Watershed District), 2665 Noel Drive, Little Canada, MN 55117.

**B. PURPOSE**

The Watershed District has requested assistance from the SWCD to implement the policies specified in Minnesota Statutes §§ 103A.206 and 103D.201; and the SWCD is authorized to enter agreements to provide such assistance pursuant to Minnesota Statutes §§ 103C.331, subds. 3, 7 and 103D.335, subd. 21. NOW, THEREFORE, the parties agree as follows:

**C. TERM OF AGREEMENT**

The term of this agreement shall be from January 1, 2022 to December 31, 2022 unless extended or terminated earlier as provided herein.

**D. SCOPE OF SERVICES**

The SWCD will perform all services and furnish and deliver work products generally described in the attached Exhibits.

**E. COST**

In full consideration for services under this agreement, the Watershed District will compensate the SWCD for providing the services listed in Exhibit A, on an hourly basis, not to exceed \$70,000 during the term of this agreement.

Any additional costs must be approved by the Watershed District.

**F. BILLING RATE AND PAYMENTS**

The Watershed District will pay the SWCD the amount of the cost for services invoiced by the SWCD, within 35 days after receipt, based on the fee schedule listed in Exhibit B of this agreement. Project expenses will be billed as they are accrued. Office supplies, normal office reproduction expenses, and transportation are included in the hourly rate. Other expenses are to be reimbursed at actual cost.



## **G. EQUAL EMPLOYMENT OPPORTUNITY- CIVIL RIGHTS**

During the performance of this Agreement, the SWCD agrees to the following:

No person shall, on the grounds of race, color, religion, age, sex, disability, marital status, public assistance, criminal record, creed or national origin, be excluded from full employment rights in, be denied the benefits of, or be otherwise subjected to discrimination under any program, service, or activity under the provisions of and all applicable federal and state laws against discrimination including the Civil Rights Act of 1964.

## **H. STANDARDS**

The SWCD shall comply with all applicable Federal and State statutes and regulations as well as local ordinances now in effect or hereafter adopted. Failure to meet the requirements of the above may be cause for cancellation of this contract effective the date of receipt of the Notice of Cancellation.

## **I. DATA PRIVACY**

All data collected, created, received, maintained, or disseminated, or used for any purpose in the course of the SWCD's performance of the Agreement is governed by the Minnesota Government Data Practices Act, Minnesota Statutes, Chapter 13 (the Act), or any other applicable state statutes and state rules adopted to implement the Act, as well as state statutes and federal regulations on data privacy. The SWCD agrees to abide by these statutes, rules and regulations and as they may be amended.

## **J. AUDITS, REPORTS, AND MONITORING PROCEDURES**

The SWCD will:

1. Maintain records that reflect all revenues, cost incurred, and services provided in the performance of the Agreement.
2. Agree that the SWCD, the State Auditor, or legislative authority, or any of their duly authorized representatives at any time during normal business hours, and as often as they may deem reasonably necessary, shall have access to the rights to examine audit, excerpt, and transcribe any books, documents, papers, records, etc., and accounting procedures and practices of the SWCD which are relevant to the contract.

## **K. INDEMNITY**

The SWCD and the Watershed District mutually agree, to the fullest extent permitted by law, to indemnify and hold each other harmless for any and all damages, liability or cost (including reasonable attorneys' fees and costs of defense) arising from their own negligent acts, errors or omissions in the performance of their services under this agreement, to the extent each party is responsible for such damages and losses on a comparative basis of fault. Parties agree to provide proof of contractual liability insurance upon request. This paragraph does not diminish, with respect to any third party, any defense, immunity or liability limit that the SWCD or the Watershed District may enjoy under law.

## **L. INDEPENDENT CONTRACTOR**

It is agreed that nothing herein contained is intended or should be construed in any manner as creating or establishing the relationship of co-partners between the parties hereto or as constituting the SWCD as the agent, representative, or employee of Watershed District for any purpose or in any manner whatsoever. The SWCD is to be and shall remain an independent contractor with respect to all services performed under this Agreement.

The SWCD represents that it has, or will secure at its own expense, all personnel required in performing services under this Agreement. Any and all personnel of the SWCD or other person, while engaged in the performance of any work or services required by the SWCD under this Agreement, shall have no contractual relationship with the Watershed District and shall not be considered employees of the Watershed District.

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**2022 SERVICE AGREEMENT  
BETWEEN  
RAMSEY COUNTY  
AND RAMSEY- WASHINGTON METRO WATERSHED DISTRICT  
RWMWD BMP COST-SHARE PROGRAM**

IN TESTIMONY WHEREOF the parties have duly executed this agreement by their duly authorized officers.

APPROVED:

Watershed District

Ramsey County

BY: \_\_\_\_\_  
Board President Date

BY: \_\_\_\_\_  
County Manager Date

BY: \_\_\_\_\_  
RWMWD Administrator Date

BY: \_\_\_\_\_  
Parks and Recreation Director Date

Approved as to form:

BY: \_\_\_\_\_  
County Attorney Date

## **EXHIBIT A**

### **2022 RWMWD BMP COST-SHARE PROGRAM**

#### **TASKS**

**1. Project Oversight**

All work performed by the SWCD will be at the direction of the RWMWD staff.

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Targeted and broad-based outreach techniques will be implemented through a coordinated effort of the RWMWD and SWCD. Outreach will be coordinated with educational efforts by the RWMWD.

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**7. Construction Monitoring (Site inspections)**

The SWCD will monitor construction activities to verify proper implementation of BMPs.

**8. Miscellaneous Services**

Other services may be provided as requested by the Watershed District to implement and carry out the Program.

## **EXHIBIT B**

### **FEE SCHEDULE**

Services in Exhibit A are billed on an hourly basis at the rate of \$75.00 per hour, for all SWCD staff.

\* \* \* \* \*

# Permit Program

\* \* \* \* \*



# RAMSEY-WASHINGTON

## METRO WATERSHED DISTRICT

### MEMORANDUM

**Date:** December 8, 2021

**To:** Board of Managers and Staff

**From:** Nicole Soderholm, Permit Coordinator  
Mary Fitzgerald, District Inspector

**Subject:** November Enforcement Action Report

During November 2021:

<b>Number of Violations:</b>	<b>20</b>
Install/Maintain Inlet Protection	4
Install/Maintain Perimeter Control	3
Install/Maintain Construction Entrance	1
Sweep Streets	4
Stabilize Exposed Soils	2
Contain Liquid/Solid Waste Materials	1
Remove Discharged Sediment	1
Protect/Maintain Permanent BMPs	2
Install Up-Gradient BMPs	1
Install/Maintain Energy Dissipation	1

### Activities:

Permitting assistance to private developers and public entities, miscellaneous resident inquiries, ongoing ESC site inspections and reporting, WCA administration and site visits, new permit review with Barr Engineering, permit close-out inspections, MPCA MS4 Q&A session, wetland restoration enforcement, RWMWD virtual recognition ceremony, MAWD conference

### Project Updates:

#20-16 Mondello Shores (Vadnais Heights, Little Canada)

Significant earth-moving activities are complete at the Mondello Shores development, and the entire site has been temporarily seeded to stabilize soil through the winter. Houses continue

to be developed, with about 6 or so nearly complete. Staff continue to inspect the site on a biweekly basis and find it to be compliant, with minor repair items typically needed such as sweeping, rock entrance maintenance, and back of curb perimeter control repair. Staff will continue to monitor and inspect the site through the winter and communicate findings to onsite contractors.

#### #20-09 7<sup>th</sup> Street Townhomes (North St. Paul)

7<sup>th</sup> Street Townhomes is also complete with most grading activities and has seeded areas that will not be worked through the winter. Two townhomes and one single family lot are currently under construction in different phases of completion. Staff conducted a routine inspection on November 16<sup>th</sup> and found a few maintenance items needed including perimeter control repair, sweeping, and rock entrance maintenance. Staff communicated these items to onsite contractors and sent a detailed report via e-mail to all site contacts. Staff will continue to inspect the site through the winter.

#### #20-36 The Parkway (St. Paul)

The multi-family housing building project continues through November with curb, paving, and sidewalks recently complete. Staff conducted an inspection on November 9<sup>th</sup> and found a few deficiencies throughout the site including lack of inlet protection, sediment tracking, damaged perimeter control and inactive exposed soil. Staff reinspected the site on November 23<sup>rd</sup> and found that these items were still left unrepaired, making the site non-compliant. Staff communicated that items must be completed promptly to avoid further enforcement escalation. Communication is still ongoing with this site.

#### #20-07 John Glenn Middle School Addition (Maplewood)

John Glenn Middle School has made significant progress through the season and is just wrapping up grading activities in the month of November. Staff inspected the site on November 18<sup>th</sup> and found all soil to be hydro-mulched for winter. This application of temporary seed with tackifier will stabilize the soil through the winter months and prevent soil erosion during snowmelt in the spring. Staff walked the site with onsite contractors to determine any repair items needed. A few small items were noted including sweeping and temporary cover in one small area which did not receive hydro-mulch. Although all exterior work is complete for winter, staff will continue to visit the site to ensure erosion and sediment control items remain in good condition and functional.

#### **Single Lot Residential Permits Approved by Staff:**

None

#### **Permits Closed:**

- 13-12 Pinetree Ponds Development (Little Canada)
- 18-19 Roseville Area High School Remodel (Roseville)
- 20-12 County Road D and Greenbrier SIP (Little Canada)
- 20-20 Maplewood Dennis-McClelland SIP (Maplewood)
- 20-26 Owasso Gardens (Roseville)
- 21-25 418 W Horseshoe Dr (Shoreview)



\* \* \* \* \*

# Stewardship Grant Program

\* \* \* \* \*

# Stewardship Grant Program Budget Status Update

December 8, 2021

Homeowner	Coverage	Number of Projects: 28	Funds Allocated
Habitat Restoration and rain garden w/o hard surface drainage	50% Cost Share \$15,000 Max	20	\$32,616.72
Rain garden w/hard surface drainage, pervious pavement, green roof	75% Cost Share \$15,000 Max	6	\$45,435
Master Water Steward Project	100% Cost Share \$15,000 Max	0	\$0
Shoreland Restoration	100% Cost Share \$15,000 Max	2	\$8,500

Commercial, School, Government, Church, Associations, etc.	Coverage	Number of Projects: 13	Funds Allocated
Habitat Restoration	50% Cost Share \$15,000 Max	8	\$86,925
Shoreland Restoration (below 100-year flood elevation w/actively eroding banks)	100% Cost Share \$100,000 Max	1	\$110,000
Priority Area Projects	100% Cost Share \$100,000 Max	0	\$0
Non-Priority Area Projects	75% Cost Share \$50,000 Max	0	\$0
Public Art/Project Research	50% Cost Share	2	\$19,000
Aquatic Veg Harvest/LVMP Development	50% Cost Share \$15,000 Max	2	\$17,460

Maintenance	50% Cost Share \$5,000 Max for 5 Years	60	\$44,750
Consultant Fees			\$84,910
<b>Total Allocated</b>			<b>\$435,519.74</b>

2021 Stewardship Grant Program Budget	
Budget	\$1,000,000
Total Funds Allocated	\$435,519.74
<b>Total Available Funds</b>	<b>\$564,480.26</b>



**RWMWD**

Ramsey-Washington Metro Watershed District





# 2021 Stewardship Grant Summary

Paige Ahlborg  
December 8, 2021



RAMSEY-WASHINGTON  
METRO WATERSHED DISTRICT





RAMSEY-WASHINGTON  
METRO WATERSHED DISTRICT

## Unique Stewardship & Retrofit Projects 2021

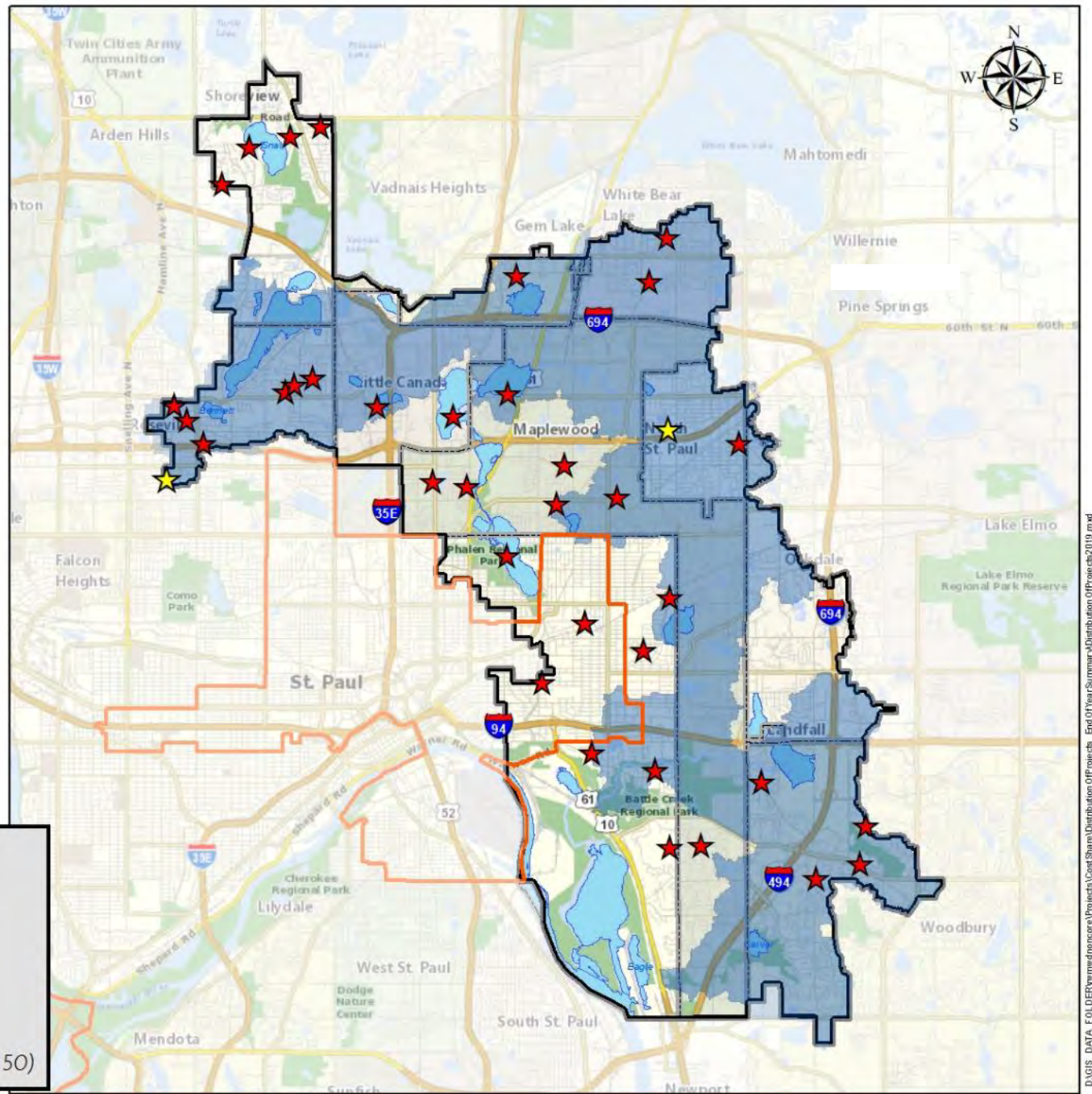
### 41 Projects Approved

- Government: 4
- Commercial: 3
- HOAs: 4
- Residential: 30

0 1 2 4 Miles

#### Key

- ★ 2021 Retrofit Projects (2)
- ★ 2021 Stewardship Projects (36)
- Lakes
- Priority Areas (2021)
- RWMWD Boundary
- Areas of Concentrated Poverty (ACP 50)



# 2021 Project Allocation

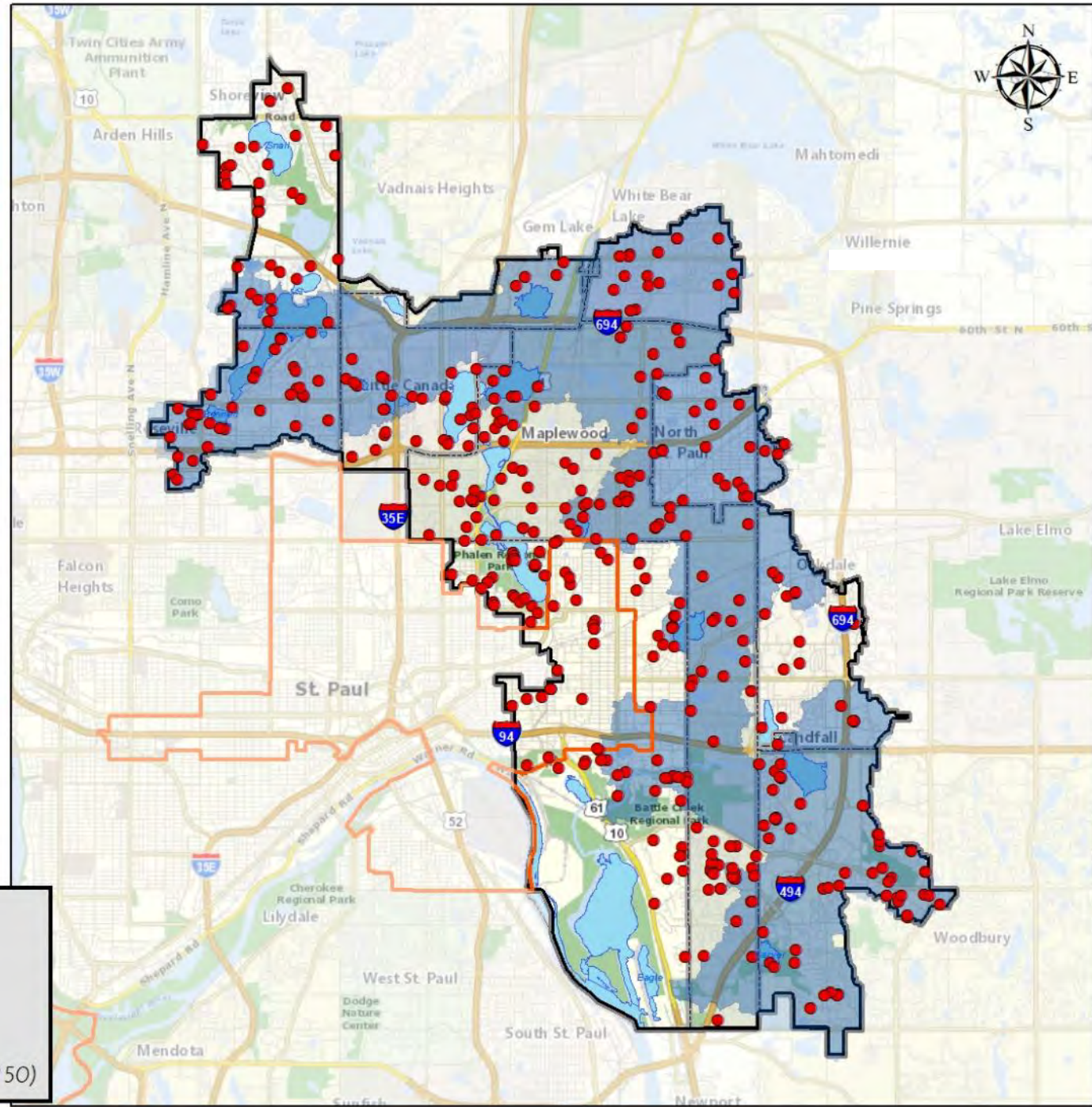
HOMEOWNER	Coverage	Number of Projects	Funds Allocated
Habitat Restoration	50% Cost Share \$15,000 Max	20	\$32,616.72
Raingarden w/ hard surface drainage	75% Cost Share \$15,000 Max	6	\$45,435
Shoreland Restoration	100% Cost Share \$15,000 Max	2	\$8,500
Master Water Steward Project	100% Cost Share \$15,000 Max	0	\$0
LARGE SCALE: Habitat Restoration	50% Cost Share \$15,000 Max	8	\$86,925
Shoreland Restoration (below 100 yr flood elevation w/ actively eroding banks)	100% Cost Share \$100,000 Max	1	\$110,000
PRIORITY AREAS: Infiltration/Filtration	100% Cost Share \$100,000 Max	0	\$0
NON-PRIORITY AREAS: Infiltration/Filtration	75% Cost Share \$50,000 Max	0	\$0





RAMSEY-WASHINGTON  
METRO WATERSHED DISTRICT

## Unique Stewardship Projects 2006-2021



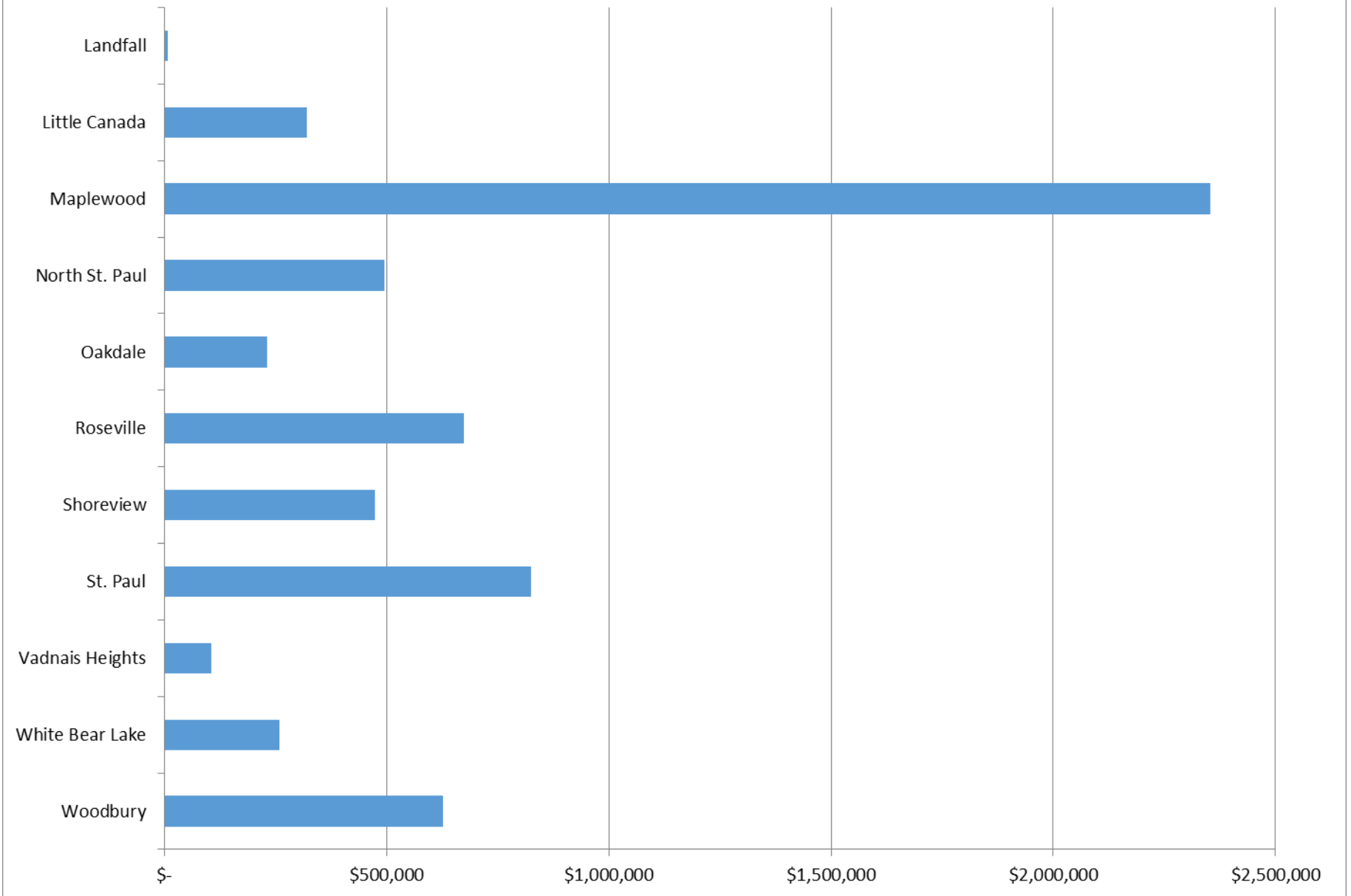
0 1 2 4 Miles

Key

- Stewardship Projects
- Priority Areas (2021)
- Lakes
- RWMWD Boundary
- Areas of Concentrated Poverty (ACP 50)

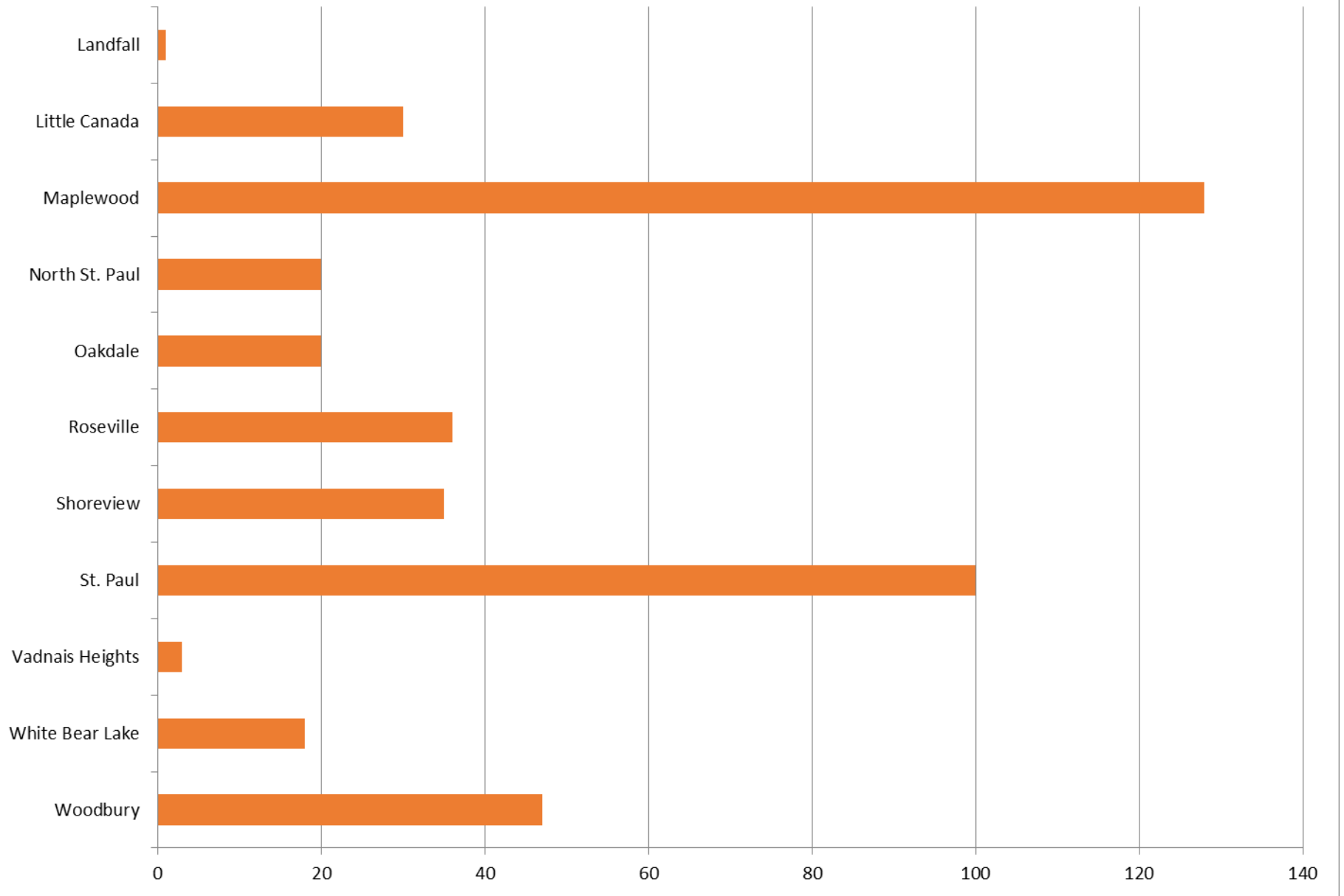
Total Spent: \$6.4mill  
Total Projects: 392  
Average: \$16,327/project

## Dollar Amount per City

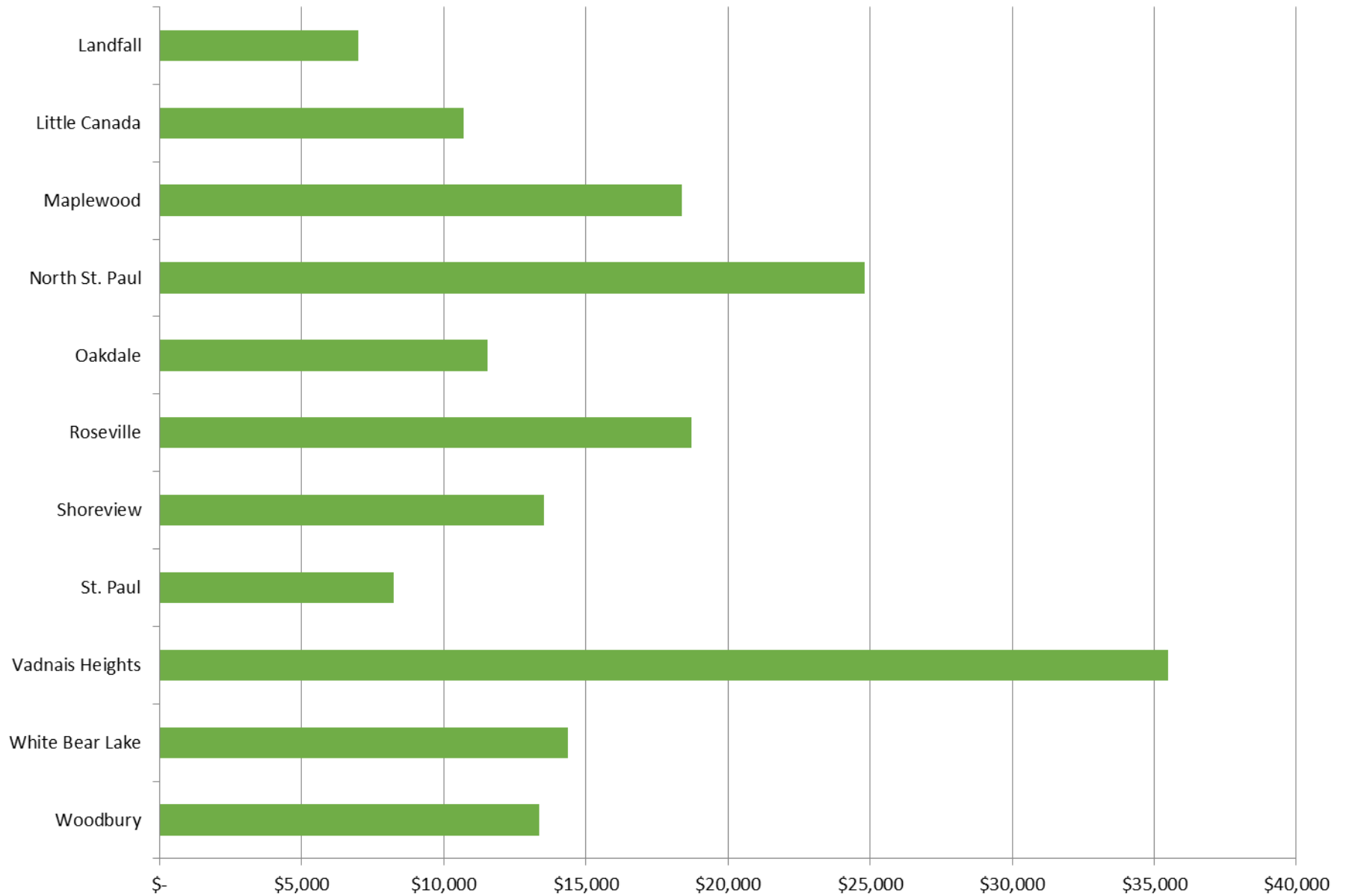




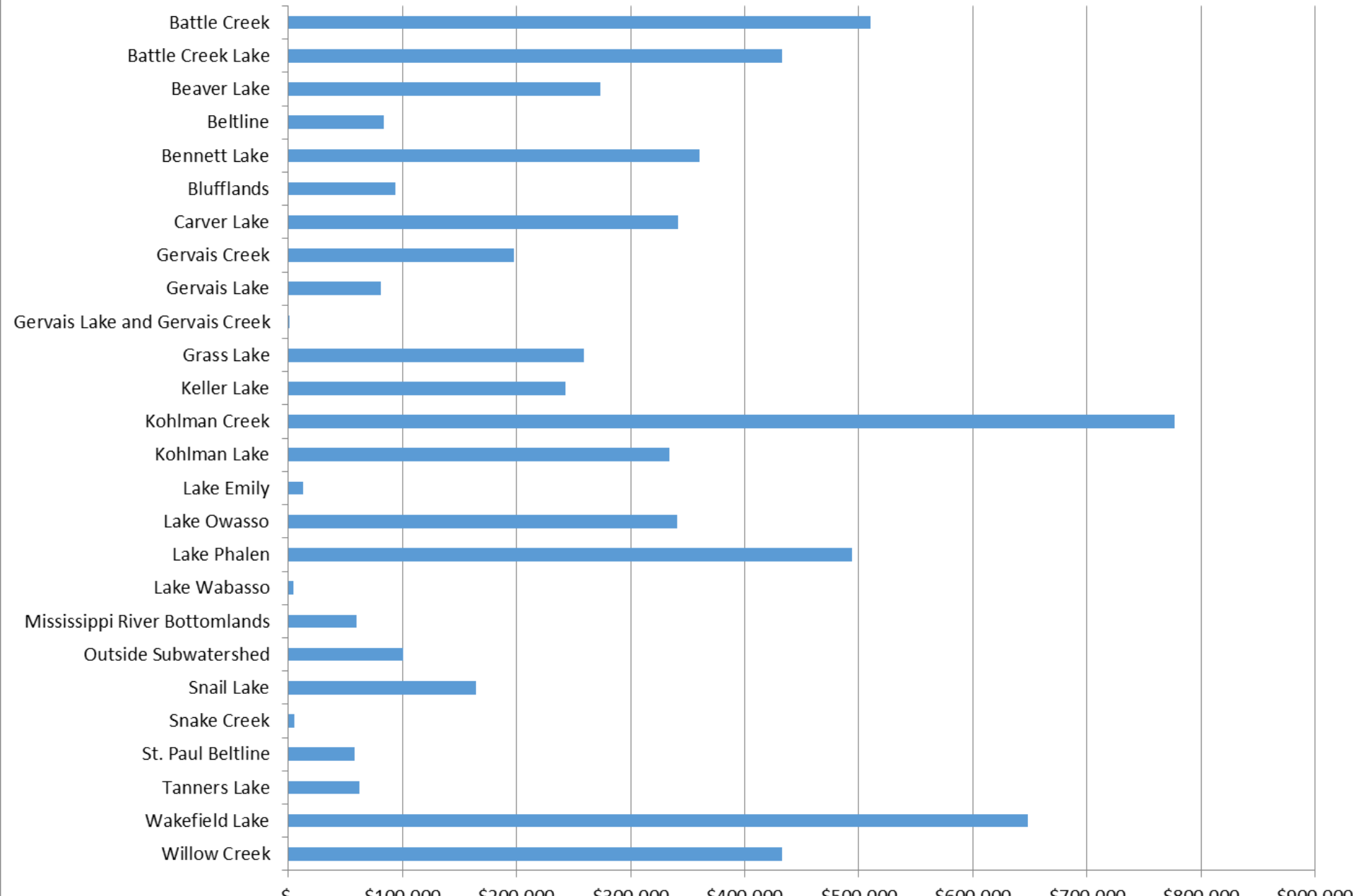
## Number of Projects per City



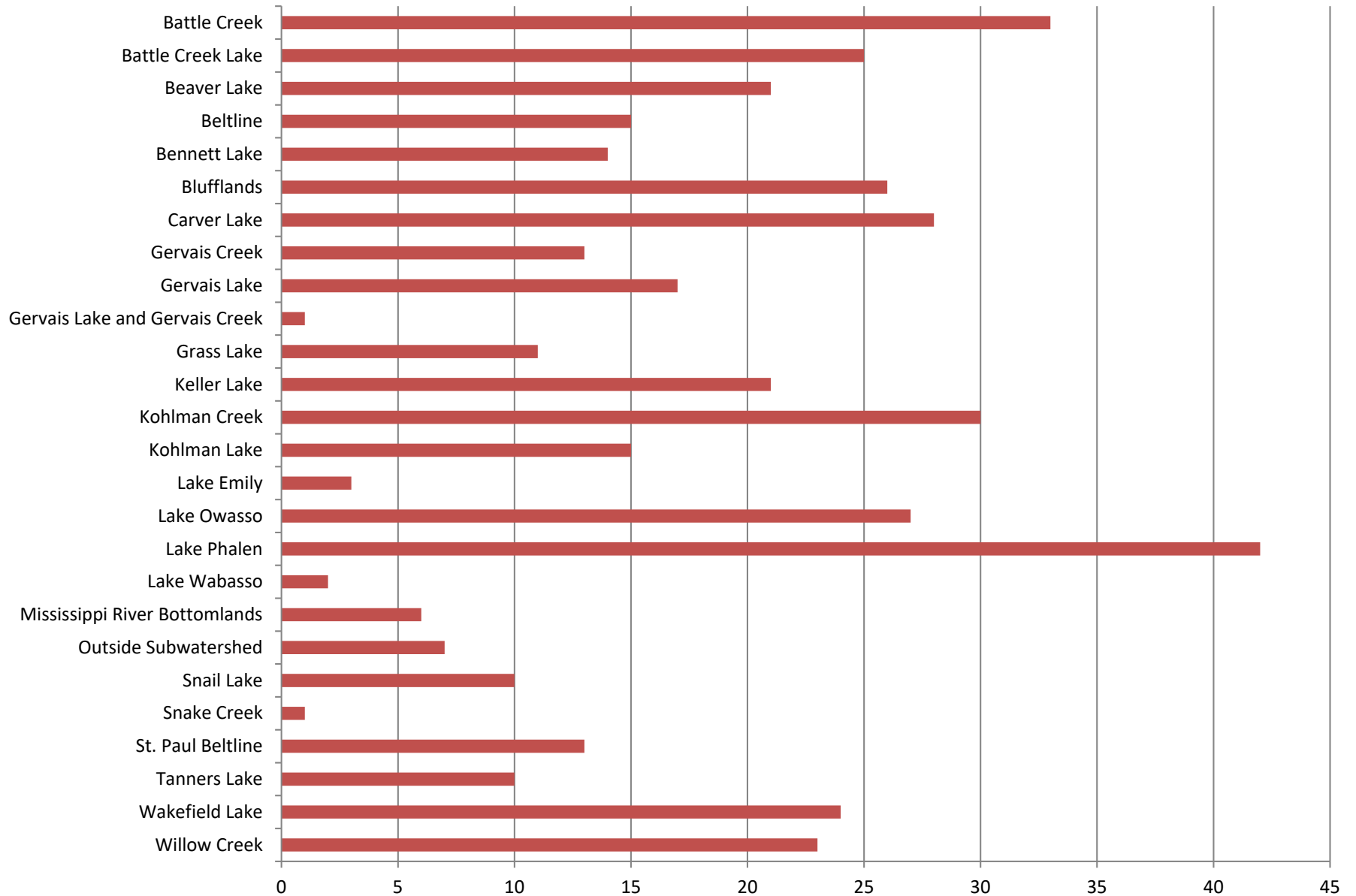
## Average Dollar per Project per City



## Dollar Amount per Subwatershed



## Number of Projects per Subwatershed





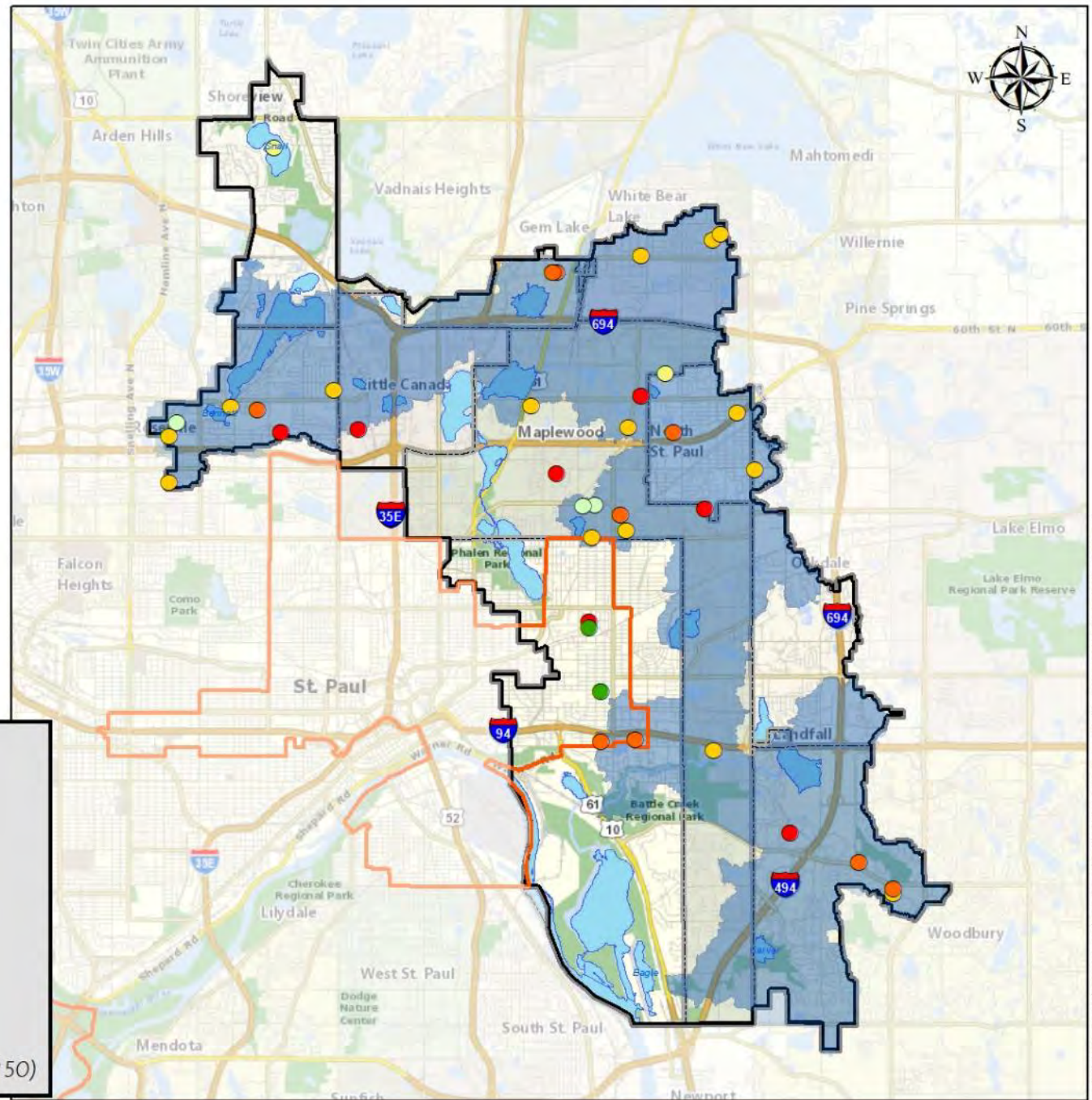
RAMSEY-WASHINGTON  
METRO WATERSHED DISTRICT

## Target Retrofit/ Stewardship Grant Projects 2013-2021

0 1 2 4 Miles

### Key

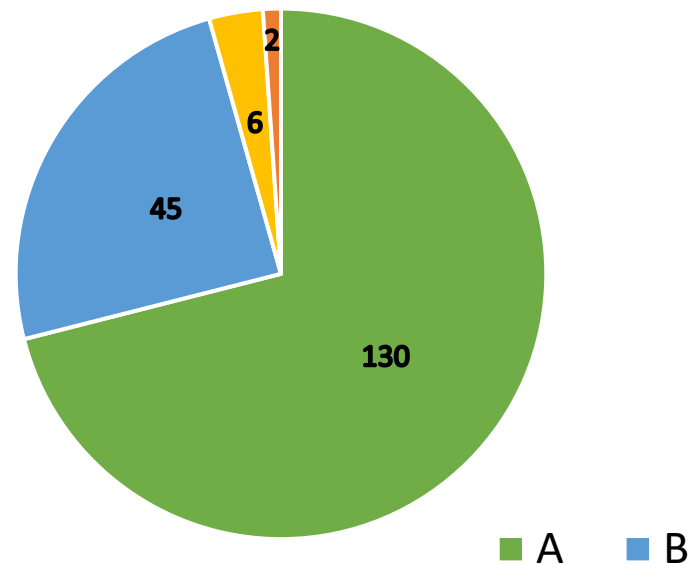
- Church
- City/CIP
- Commercial
- Non-profit
- Residential
- School
- Priority Areas (2021)
- Lakes
- RWMWD Boundary
- Areas of Concentrated Poverty (ACP 50)



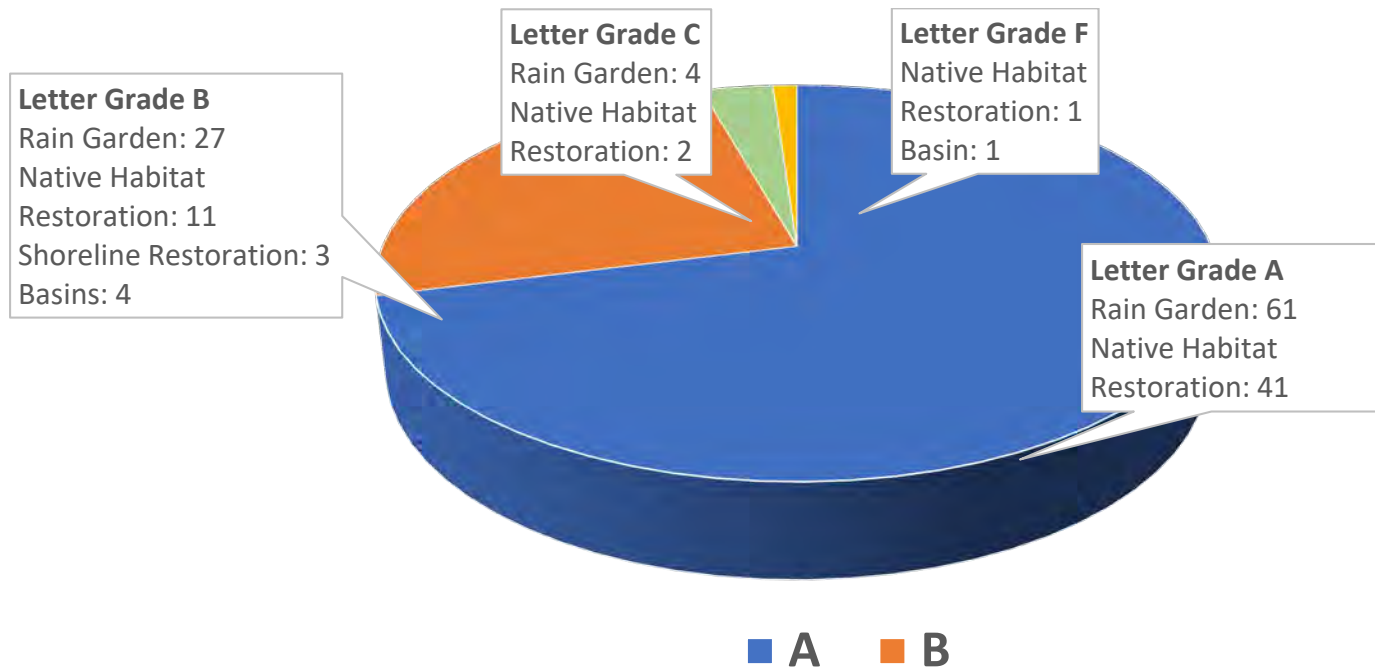
# 2021 Stewardship Grant Inspections



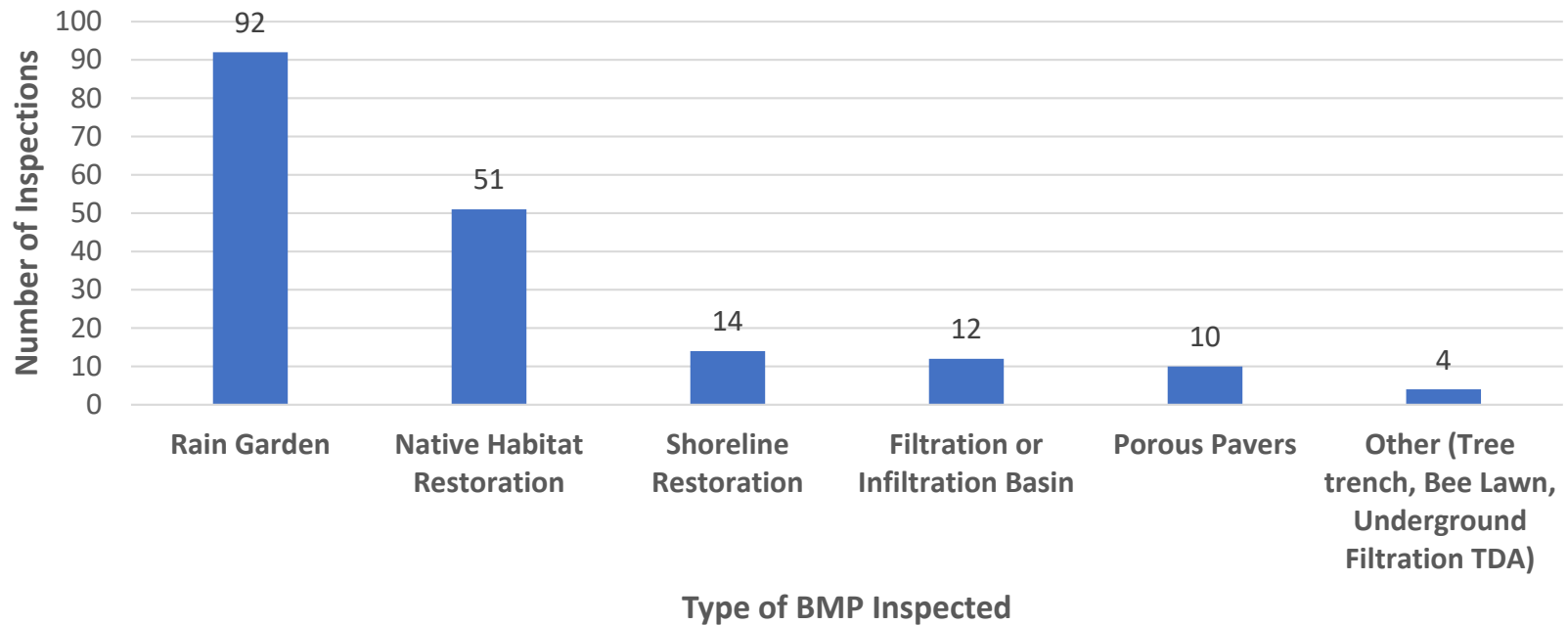
**Inspection Letter Grades (183 BMP's inspected)**



# Letter Grades of 2021 Inspections



# Type of BMPs Inspected in 2021





# Snail Lake Shoreline Restoration





# Twin Lake Shoreline Restoration



RAMSEY-WASHINGTON  
METRO WATERSHED DISTRICT

# Lake Owasso Shoreline Restoration





# BMP Maintenance Program



RAMSEY-WASHINGTON  
METRO WATERSHED DISTRICT



# CAC Assistance



RAMSEY-WASHINGTON  
METRO WATERSHED DISTRICT



# Project Praise

*To: RWMWD Board of Managers*

*Thank you for supporting Stewardship Grants.*

*I have long dreamt of transforming a significant portion of my suburban backyard into a more functional landscape. It would need to be both more tolerant of drought and of intense rains that caused my lawn to see-saw between crispy to marshy. Most importantly, it would need to be easy to maintain.*

*With the incentive provided by the generous RWMWD Stewardship Grant, I converted 1,700 sf of lawn. Since early-September, I have enjoyed the view and expect even more spectacular surprises once the 500 plugs, shrubs, and tree flourish in the coming growing seasons.*

*If you are ever in the area, I invite you to view the changing palette in my backyard, a benefit of RWMWD's grant.*

*Regards,  
Stephanie Wang  
7672 Somerset Rd, Woodbury*



# 2021 Projects



St. Rose of Lima

Target- North St. Paul





# Proposed 2022 Projects:









# Street Sweeping Assistance



# Proposed 2022 Stewardship Grant Coverage

Homeowner	Coverage
Habitat Restoration and rain garden w/o hard surface drainage	50% Cost Share \$15,000 Max
Rain garden w/hard surface drainage, pervious pavement, green roof	75% Cost Share \$15,000 Max
Master Water Steward Project	100% Cost Share \$15,000 Max
Shoreland Restoration	100% Cost Share \$15,000 Max

Commercial, School, Government, Church, Associations, etc.	Coverage
Habitat Restoration	50% Cost Share \$15,000 Max
Shoreland Restoration (below 100-year flood elevation w/actively eroding banks)	100% Cost Share \$100,000 Max
Priority Area Projects	100% Cost Share \$100,000 Max
Non-Priority Area Projects	75% Cost Share \$50,000 Max
Public Art	50% Cost Share Max up to Board Discretion
Aquatic Veg Harvest/LVMP Development	50% Cost Share \$15,000 Max
Maintenance	50% Cost Share \$5,000 Max for 5 Years



# Ramsey Soil & Water Division Changes



# Board Action Items:

## Approve 2022 Stewardship Grant Program



# Questions?



RAMSEY-WASHINGTON  
METRO WATERSHED DISTRICT

\* \* \* \* \*

# Action Items

\* \* \* \* \*

# Request for Board Action

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**Board Meeting Date:** December 8, 2021

**Agenda Item No:** 7A

**Preparer:** Tina Carstens, Administrator

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**Item Description:** 2022 CIP Maintenance and Repair Project Bid Award

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## **Background:**

Annually, the District completes a project to maintain the existing infrastructure owned and operated by the District, and to assist and facilitate stormwater pond cleanouts to allow other public entities to meet their municipal separate storm sewer system (MS4) requirements.

At the November meeting, staff presented the plans and cost estimate. The board directed Barr to finalize design, prepare the bidding package, and advertise the project for bid. The project was advertised, and the bids are scheduled to be received on December 6th. We will review the bids shortly thereafter and present them to the board for consideration at the December 8th meeting. If awarded, the contracting process will occur and construction will begin soon thereafter.

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## **Applicable District Goal and Action Item:**

**Goal: Achieve quality surface water** – The District will maintain or improve surface water quality to support healthy ecosystems and provide the public with a wide range of water-based benefits.

**Action Item:** Maintain District projects and consider opportunities to support the maintenance activities of others.

**Goal: Manage Risk of Flooding** – The District will reduce the public's risk to life and property from flooding through programs and projects that protect public safety and economic well-being.

**Action Item:** Maintain District flood storage facilities and storm sewer systems.

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## **Staff Recommendation:**

Staff recommends that the Board award the project to the responsive bidder whose bid was the lowest and whose involvement would be in the best interest of the District. Staff also recommends the Board direct staff to prepare and mail the Notice of Award, prepare the draft agreement and request and review the required submittals.

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## **Financial Implications:**

The CIP Maintenance and Repair project is included in the 2022 budget.

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## **Board Action Requested:**

Accept the bids and award the 2022 CIP Maintenance and Repair Project to \_\_\_\_\_. Direct staff to prepare and mail the notice of award, prepare the draft agreements and review the required submittals.



# RAMSEY-WASHINGTON METRO WATERSHED DISTRICT

## CAPITAL IMPROVEMENT PROJECT (CIP)

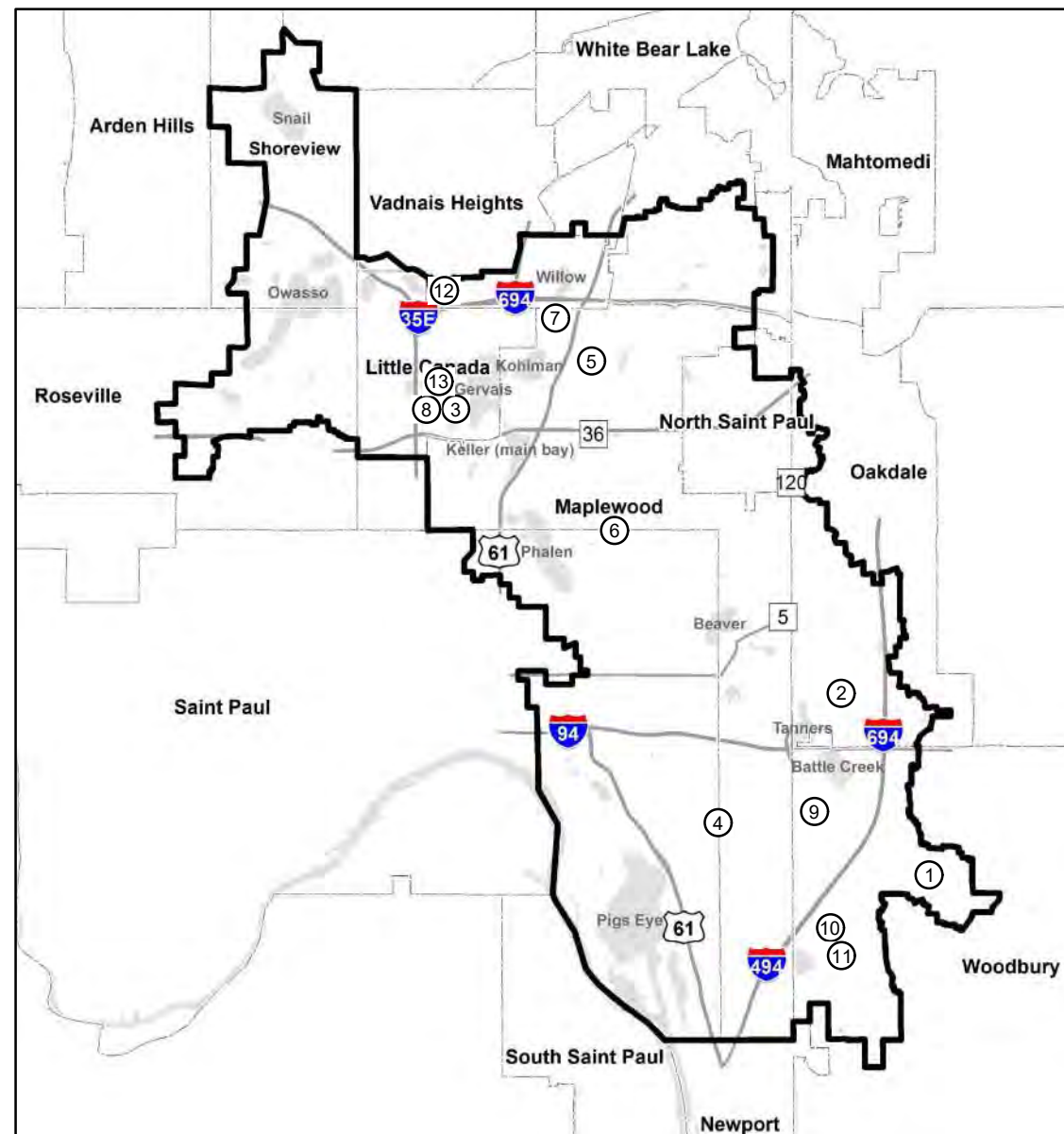
### MAINTENANCE/REPAIRS 2022

AREA REFERENCE

## AREA REFERENCE

SITE NO.	SITE NAME	SHEET NO.
①	TAMARACK SWAMP WOODBURY	C-01
②	TANNERS WETLAND OAKDALE	C-02
③	GERVAIS MILL PARK LITTLE CANADA	C-03
④	LOWER AFTON ROAD MAPLEWOOD	C-04
⑤	KOHLMAN BASIN MAPLEWOOD	C-05
⑥	WAKEFIELD LAKE MAPLEWOOD	C-06
⑦	COUNTY ROAD D VADNAIS HEIGHTS	C-07 AND C-08
⑧	GERVAIS CREEK LITTLE CANADA	C-09 AND C10
⑨	MEADOWOOD POND WOODBURY	C-11
⑩	VENTURA POND WOODBURY	C-12
⑪	LAKE TERRACE POND WOODBURY	C-13
⑫	WILLOW CREEK WHITE BEAR	C-14
⑬	RWMWD OFFICE LITTLE CANADA	C-15

# LITTLE CANADA, MINNESOTA



## SHEET INDEX

G-GENERAL  
C-CIVIL

SHEET NO.	TITLE
G-01	SITE LOCATION AND SHEET INDEX
G-02	STORMWATER POLLUTION PREVENTION PLAN (SWPPP)
G-03	STORMWATER POLLUTION PREVENTION PLAN (SWPPP)
G-04	EROSION CONTROL DETAILS
C-01	PFS BASINS PAVER CLEANING/SWEEPING
C-02	TANNERS WETLAND WEIR MAINTENANCE
C-03	GERVAIS MILL POND FILTER MAINTENANCE
C-04	LOWER AFTON ROAD DRAINAGEWAY SEDIMENT REMOVAL
C-05	KOHLMAN BASIN SAND FILTER MAINTENANCE
C-06	WAKEFIELD TEST CELL MEDIA REPLACEMENT
C-07	COUNTY ROAD D WASHOUT REPAIR PLAN AND PROFILE
C-08	COUNTY ROAD D WASHOUT REPAIR SECTIONS AND DETAILS
C-09	GERVAIS CREEK IMPROVEMENTS PLAN & PROFILE
C-10	GERVAIS CREEK IMPROVEMENTS SECTIONS AND DETAILS
C-11	MEADOWOOD POND CLEANOUT (SC-076)
C-12	VENTURA POND CLEANOUT (SC-242)
C-13	LAKE TERRACE POND CLEANOUT (SC-327)
C-14	WILLOW CREEK HEADWALL GRATE
C-15	RWMWD INLET STRUCTURE SINK HOLE REPAIR



GOPHER STATE ONE CALL:  
CALL BEFORE YOU DIG.  
1-800-252-1166

CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD-LOCATING ALL SITE UTILITIES, PRIVATE AND PUBLIC, PRIOR TO STARTING THE WORK. ALL UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. ANY UTILITIES DAMAGED BY CONTRACTOR SHALL BE REPAIRED BY CONTRACTOR TO THE SATISFACTION OF THE UTILITY OWNER.

VICINITY MAP 

						I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.										CLIENT BID CONSTRUCTION										10/27/21 11/19/21										Project Office: BARR ENGINEERING CO. 4300 MARKETPOINTE DRIVE Suite 200 MINNEAPOLIS, MN 55435										Scale AS SHOWN Date 10/13/2021 Drawn BARR Checked GGN Designed BARR Approved BJL										 BARR ENGINEERING CO. 4300 MARKETPOINTE DRIVE Suite 200 MINNEAPOLIS, MN 55435 Corporate Headquarters: Minneapolis, Minnesota Ph: 1-800-632-2277 Fax: (952) 832-2601 Web: www.barr.com										 RAMSEY-WASHINGTON METRO WATERSHED DISTRICT										CAPITAL IMPROVEMENT PROJECT (CIP) MAINTENANCE/REPAIRS 2022										BARR PROJECT No. 23/62-282.38 CLIENT PROJECT No.									
						PRINTED NAME BRADLEY J. LINDAMAN										RELEASED TO/FOR										A B C 0 1 2 3										DATE RELEASED										SITE LOCATIONS AND SHEET INDEX										DWG. No. G-01										REV. No. 0																													
NO. BY CHK APP. DATE						REVISION DESCRIPTION										SIGNATURE DATE: 11/19/2021 LICENSE # 22178																																																																															

# Request for Board Action

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**Board Meeting Date:** December 08, 2021

**Agenda Item No:** 7B

**Preparer:** Tina Carstens, Administrator

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**Item Description:** Stormwater Impact Fund (SIF) Budget Transfers

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## **Background:**

In 2006, the District adopted rules that required applicants to achieve volume reduction for water quality through Rule C. Those rules include an alternative compliance section that as a final step allows for payment into the SIF when that volume reduction cannot be accomplished in other manners. I have attached the Stormwater Impact Fund Plan that outlines the purpose, goals, and procedures for the SIF.

To date, staff have tracked the collected SIFs internally while the funds were deposited in the general fund by accounting. In 2011, funds were transferred from the general fund to the Maplewood Mall project fund for use on that project. I have attached a SIF tracking document for your information. Since that transfer in 2011, staff have internally allocated SIFs to District projects but no transfers were made.

In order to increase transparency in the collection of these funds and the use of the funds for their intended purposes, I am proposing that we add a new fund specifically for the Stormwater Impact Fund money that is collected and used. That fund would be #536. To acknowledge the projects that have met the intent of the SIF allocation and were allocated by staff internally, I am also proposing that we transfer those funds to the Stewardship Grant Fund and Targeted Retrofit Projects Funds. The remaining SIFs that have yet to be allocated would be placed in the new Fund 536.

In the future, when SIFs are received from a permit applicant, they will be placed directly into Fund 536. When we identify a District project that can use those funds, we can directly allocate those funds to the project identified.

The breakdown of money to be transferred to each of those funds can be found in the attached Resolution 21-02 and in the SIF tracking document.

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## **Applicable District Goal and Action Item:**

**Goal: Manage effectively** – The District will operate in a manner that achieves its mission while adhering to its core principles.

**Action Item:** Maintain financial solvency and accountability.

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**Staff Recommendation:**

Staff recommends approval of Resolution 21-02.

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**Financial Implications:**

Resolution 21-02 will move funds from the general fund reserves into project implementation funds which will reduce the need to levy funds for projects in those funds.

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**Board Action Requested:**

Approval of Resolution 21-02.



# Stormwater Impact Fund

## Implementation Plan

### OVERVIEW

Ramsey-Washington Metro Watershed District's (RWMWD) mission is to preserve and improve water resources and related ecosystems in the District. The District adopted Rules in September 2006. The Rules were most recently amended on June 5, 2019 and require stormwater treatment for projects that disturb one acre of land or greater. Stormwater Management Rule C requires permanent Best Management Practices (BMPs) to achieve volume reduction in the amount equivalent to 1.1" rainfall over the proposed impervious surfaces of the development. The alternative compliance section of Rule C allows for payment into the Stormwater Impact Fund when onsite practices, offsite treatment, or banked volume reduction credits cannot be used to achieve compliance. Money contributed to the Stormwater Impact Fund will be used to provide volume reduction elsewhere in the District.

### GOALS

The Stormwater Impact Fund is the last step in the alternative compliance sequencing process of RWMWD Rule C and is intended to:

- Provide an alternative method to achieve volume reduction for permitted projects
- Account for unique conditions that may make compliance difficult on some sites
- Incorporate flexibility into the District's stormwater treatment requirements
- Provide applicants a known process and expenditure for project planning and budgeting

### ELIGIBILITY FOR CONTRIBUTION TO THE FUND

The following criteria must be met in order for a project to be eligible for contribution to the Stormwater Impact Fund as required in RWMWD Rule C:

- Documentation of specific site conditions indicating why standard compliance is not feasible
- Documentation that the alternative compliance sequencing steps have been satisfied
- In the case of deferred volume reduction credits as provided for in Rule C, documentation to support why the required BMPs have not been constructed within two years of approving the deferral

## **ELIGIBILITY FOR USE OF FUNDS**

Money from the Stormwater Impact Fund shall be allocated to the following two activities:

1. Project planning and engineering for construction of volume reduction practices
2. Construction of volume reduction projects

The District Administrator will evaluate projects as funding becomes available and assign priority to projects based on the following criteria:

1. Projects located within the same subwatershed as the permitted project(s) contributing to the Fund.
2. Projects that are identified in completed subwatershed studies or other planning documents
3. Projects that include multiple funding and planning partners
4. Quantity of stormwater treated
5. Cost per pound of phosphorus removed

# STORMWATER IMPACT FUND COLLECTION TRACKING

Permit #	Permit Name	Subwatershed	Amount Collected
07-08	Country View Drive/Beam Ave Improvements	Kohlman Lake	\$ 91,200.00
09-12	Ramsey County SIP- County Road D	Kohlman Creek	\$ 101,400.00
09-17	Point Douglas Road Lift Station Improvements	Blufflands	\$ 5,761.25
10-07	White Bear Ave	Kohlman Creek	\$ 479,998.08
11-10	Phalen Village Turn Lanes	St. Paul Beltline	\$ 32,093.00
12-06	Ruth Street Paving Project	Battle Creek	\$ 75,872.70
12-11	Battle Creek-Upper Afton Residential Street Paving Project	Battle Creek	\$ 164,946.24
13-06	North St. Paul Senior Living	Kohlman Creek	\$ 58,612.69
15-23	Woodbury High School Parking Lot Reconstruction	Carver Lake	\$ 168,400.00
15-33	Cub Foods of Oakdale	Battle Creek Lake	\$ 126,897.75
15-35	Shoreview Library	Snail Lake	\$ 27,121.50
16-19	White Bear Avenue I-94 to Beech St	Battle Creek/St. Paul Beltline	\$ 125,400.00
18-13	Trails Edge Apartments	Kohlman Lake	\$ 10,895.00
18-24	Roseville Luxury Apartments	Bennett Lake	\$ 4,979.94
19-01	McDonald's Suburban Ave	Battle Creek	\$ 3,827.64
19-17	Woodbury 2019 SIP	Battle Creek Lake	\$ 231,300.00
19-25	Indian Mounds Regional Park Trail	Mississippi River Bottomlands	\$ 10,574.00
19-51	Margaret Street Downtown Improvements	Kohlman Creek	\$ 65,100.00
19-52	Bailey Road Reconstruction	Carver Lake	\$ 65,400.00
20-24	Maple Ridge Gas Station	Kohlman Creek	\$ 100,000.00
Total Collected to Date			\$ 1,949,779.79

PREVIOUS TRANSFER OF FUNDS		
Permit #	Permit Name	Withdrawal Amount
07-08	Country View Drive/Beam Ave Improvements	\$ 91,200.00
09-12	Ramsey County SIP- County Road D	\$ 101,400.00
10-07	White Bear Ave	\$ 479,998.08
Transferred 12/7/2011 (Res 11-11) for Maplewood Mall Project - Phase IV		\$ 672,598.08
Remaining Stormwater Impact Fund Balance		\$ 1,277,181.71

INTERNAL ALLOCATION TO STEWARDSHIP GRANT FUNDS		
Permit #	Permit Name	Allocated Amount
15-23	Woodbury High School Parking Lot Reconstruction (partial allocation)	\$ 57,000.00
Allocated to #20-14 CS Carver Lake Parking Lot Stewardship Grant Project		\$ 57,000.00
Remaining Stormwater Impact Fund Balance		\$ 1,220,181.71

INTERNAL ALLOCATION TO TARGETED RETROFIT PROJECTS		
Permit #	Permit Name	Withdrawal Amount
09-17	Point Douglas Road Lift Station Improvements	\$ 5,761.25
11-10	Phalen Village Turn Lanes	\$ 32,093.00
19-25	Indian Mounds Regional Park Trail	\$ 10,574.00
Allocated to Targeted Retrofit Project - Boys and Girls Club in December 2020		\$ 48,428.25
12-06	Ruth Street Paving Project	\$ 75,872.70
12-11	Battle Creek-Upper Afton Residential Street Paving Project	\$ 164,946.24
15-33	Cub Foods of Oakdale	\$ 126,897.75
16-19	White Bear Avenue I-94 to Beech St	\$ 125,400.00
19-01	McDonald's Suburban Ave	\$ 3,827.64
19-17	Woodbury 2019 SIP	\$ 231,300.00
Allocated to Targeted Retrofit Project - Eastside Target Store in January 2021		\$ 728,244.33
13-06	North St. Paul Senior Living	\$ 58,612.69
19-51	Margaret Street Downtown Improvements	\$ 65,100.00
Allocated to Targeted Retrofit Project - North St. Paul Target Store in October 2021		\$ 123,712.69
18-24	Roseville Luxury Apartments	\$ 4,979.94
Allocated to Targeted Retrofit Project - St. Rose of Lima in November 2021		\$ 4,979.94
Total Allocated to Targeted Retrofit Projects		\$ 905,365.21

Remaining Stormwater Impact Fund Balance to be placed in Fund 536		\$ 314,816.50
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## **RESOLUTION 21-02**

### **RESOLUTION RELATING TO THE ADJUSTMENT OF THE STORMWATER IMPACT FUNDS**

WHEREAS, the Ramsey-Washington Metro Watershed District (District) adopted rules in 2006 and amended those rules in 2019, that require stormwater treatment for projects that disturb one acre of land or greater; and

WHEREAS, stormwater management Rule C requires permanent best management practices to achieve volume reduction in the amount equivalent to 1.1" rainfall over the impervious surfaces; and

WHEREAS, an alternative compliance process in Rule C allows for payment into the Stormwater Impact Fund when other means aren't feasible for meeting the Rule C volume reduction requirements; and

WHEREAS, money collected through the alternative compliance Stormwater Impact Fund has been placed into the General Fund 101 of the District; and

WHEREAS, the Stormwater Impact Fund Plan indicates the District shall use the collected money to plan, engineer, and construct volume reduction water quality projects; and

WHEREAS, the District has completed volume reduction water quality projects using levy funds in both the Targeted Retrofit Projects Fund 518 and Stewardship Grant Fund 529; and

WHEREAS, Stormwater Impact Funds in the amount of \$1,277,181.71 have not been allocated from the general fund to the project implementation funds for the completion of those allocated projects; and

WHEREAS, the allocation of these Stormwater Impact Funds would reduce the District budget levy requirements;

NOW, THEREFORE, BE IT RESOLVED by the Board of Managers of the Ramsey-Washington Metro Watershed District that the District authorize the transfer of General Fund 101 reserves (\$905,365.21) to Targeted Retrofits Fund 518; and

NOW, THEREFORE, BE IT FURTHER RESOLVED by the Board of Managers of the Ramsey-Washington Metro Watershed District that the District authorize the transfer of General Fund 101 reserves (\$57,000.00) to Stewardship Grant Fund 529; and



RESOLUTION 21-02 RELATING TO THE ADJUSTMENT OF THE STORMWATER IMPACT FUNDS

NOW, THEREFORE, BE IT FURTHER RESOLVED by the Board of Managers of the Ramsey-Washington Metro Watershed District that the District authorize the transfer of General Fund 101 reserves (\$314,816.50) to the new Stormwater Impact Fund 536.

Adopted by the Board of Managers of the Ramsey-Washington Metro Watershed District this 8<sup>th</sup> day of December, 2021.

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Lawrence Swope, President

Attest:

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Dr. Pam Skinner, Secretary

# Request for Board Action

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**Board Meeting Date:** December 8, 2021

**Agenda Item No:** 7C

**Preparer:** Tina Carstens, Administrator

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**Item Description:** Capital Improvement Budget Fund Transfers

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**Background:**

In an effort to clean up the budget status report and the open funds we have for project implementation and our office building lease, I am recommending that we close out the funds that are no longer being utilized.

- Fund 553: Wakefield Park Project – this project has been completed and any further funds needed would be related to BMP inspection and maintenance would therefore come out of the maintenance funds.
- Fund 585: Certificates of Participation – this fund was used to pay for the lease payments for the District’s office building that was built in 2005. The last payment has been made and there is excess money in the fund.

It is customary for the closed fund balances to be transferred to the capital improvement contingency fund, 580. The approximate balance to be transferred to contingency with approval of resolution 21-03 is \$555,000.

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**Applicable District Goal and Action Item:**

**Goal: Manage effectively** – The District will operate in a manner that achieves its mission while adhering to its core principles.

**Action Item:** Maintain financial solvency and accountability.

---

**Staff Recommendation:**

Staff recommends approval of Resolution 21-03.

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**Financial Implications:**

Resolution 21-03 will increase the contingency funds in our capital improvement program. These funds could be used in the future to decrease the levy funds collected.

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**Board Action Requested:**

Approval of Resolution 21-03.



## **RESOLUTION 21-03**

### **RESOLUTION RELATING TO THE ADJUSTMENT OF THE CAPITAL IMPROVEMENTS BUDGET**

WHEREAS, the Ramsey-Washington Metro Watershed District (District) budgeted for items related to the Wakefield Park Project (Fund 553) and for the District office building Certificates of Participation (Fund 585); and

WHEREAS, the total revenue in the funds are greater than the total expenditures; and

WHEREAS, the projects and payments are now complete;

NOW, THEREFORE, BE IT RESOLVED by the Board of Managers of the Ramsey-Washington Metro Watershed District that the District authorize the closing of funds 553 and 585 and transferring the total fund balances to fund 580 (Capital Improvement Contingency Fund).

Adopted by the Board of Managers of the Ramsey-Washington Metro Watershed District this 8<sup>th</sup> day of December, 2021.

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Lawrence Swope, President

Attest:

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Dr. Pam Skinner, Secretary

# Request for Board Action

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**Board Meeting Date:** December 8, 2021

**Agenda Item No:** 7D

**Preparer:** Tina Carstens, Administrator

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**Item Description:** Adopt Final FY 2022 Budget and Certify Final Levy.

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**Background:**

The District Board of Managers adopted the draft budget at the September Board meeting for review and comment by the cities and counties. No written or verbal comments have been received.

The board held its required public hearing on September 1, 2021. No comments were received at the public hearing or after the hearing. The preliminary budget was placed on the website, and the final will also be placed there for public information.

At the September meeting, the board directed me to adjust the levy amount to achieve a 0% increase in levy funds from 2021 to 2022. Using the carry-over from 2021 as well as the previously discussed Stormwater Impact Fund budget transfer, we are able to achieve a decrease in levy this year of (0.42%).

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**Applicable District Goal and Action Item:**

The District budget relates to all facets of the District operations since it provides the funds for staff and project activities.

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**Staff Recommendation:**

Approve the Final General Fund and CIP budgets and approve the final levy certification as indicated in the budget table and attached Resolution 21-04.

---

**Financial Implications:**

This year's levy reflects a decrease from the 2021 levy of (0.42%).

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**Board Action Requested:**

Approve the proposed FY 2022 General Fund and CIP budgets and adopt resolution 21-04.



## RESOLUTION 21-04

### RESOLUTION APPROVING THE 2022 BUDGET AND FINAL PAYABLE 2022 TAX LEVY

WHEREAS, the Ramsey-Washington Metro Watershed District Board of Managers adopted a proposed budget and payable 2022 levy on September 1, 2021; and

WHEREAS, the Ramsey-Washington Metro Watershed District distributed the proposed budget and levy for review and comment to all Cities and Counties; and

WHEREAS, The District held a public hearing on the budget, Capital Improvements Program and proposed levy on September 1, 2021;

NOW, THEREFORE, BE IT RESOLVED by the Board of Managers of the Ramsey-Washington Metro Watershed District that the General Fund and Capital Improvements Budget be approved and the following final levy be certified to Ramsey and Washington Counties.

General Revenue Levy	\$6,735,000
<u>Debt Service Levy</u>	<u>\$0</u>
Total Levy	\$6,735,000

Adopted by the Board of Managers of the Ramsey-Washington Metro Watershed District this 8<sup>th</sup> day of December, 2021.

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Lawrence Swope, President

Attest:

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Dr. Pam Skinner, Secretary

Fiscal Year 2022 Budget V3  
Final Budget and Levy

Budget ID Number	Budget Item		FY 2021 Budget	FY 2022 Budget Funding Source				Total Proposed 2022 Budget	Increase (decrease) from 2021 Budget
				General Fund	Capital Improvements	Carry-over Funds	Other Funds		
1	Engineering	Administration	93,000	125,000				125,000	32,000
2		Engineering Review	55,000	60,000				60,000	5,000
3		Permit Application Review	55,000	55,000				55,000	0
4		Permit Inspection and Enforcement	10,000	10,000				10,000	0
5		Project Feasibility Studies	440,000	410,000				410,000	(30,000)
6		GIS Maintenance	5,000	5,000				5,000	0
7									
8	Attorney	General	40,000	40,000				40,000	0
9		Permit Enforcement	10,000	10,000				10,000	0
10									
11	Managers	Meeting Per diems	8,500	8,500				8,500	0
12		Managers Expenses	3,500	4,000				4,000	500
13									
14	Auditor/Accounting	Auditor/Accounting	65,000	70,000				70,000	5,000
15									
16	Miscellaneous	Dues & Publications	11,000	11,000				11,000	0
17		Insurance	50,000	55,000				55,000	5,000
18		Committee & Board Meeting Expenses	3,500	3,500				3,500	0
19		Miscellaneous	5,000	5,000				5,000	0
20									
21	Administrative	Salary & Benefits	1,520,000	1,660,000				1,660,000	140,000
22		Employee Expenses	15,000	15,000				15,000	0
23		Janitorial/Trash Services/Snow Plowing	15,000	15,000				15,000	0
24		Building Maintenance	150,000	150,000				150,000	0
25		Utilities (gas,electric, water, sewer, maintenance)	30,000	30,000				30,000	0
26		Office Supplies	7,000	7,000				7,000	0
27		Copying/Printing	8,000	5,000				5,000	(3,000)
28		Postage/Delivery	3,000	3,000				3,000	0
29		Office Furniture & Computer Equipment	150,000	150,000				150,000	0
30		Office Equipment Maintenance	3,000	3,000				3,000	0
31		Training/Education	75,000	75,000				75,000	0
32		Telephone	8,000	4,000				4,000	(4,000)
33		District Vehicles/Maintenance	43,000	20,000				20,000	(23,000)
34		GIS System Maintenance & Equip.	5,000	5,000				5,000	0
35		Database Improvements	40,000	40,000				40,000	0
36		IT Services/Internet/Website/Software Licenses	70,000	75,000				75,000	5,000
37		Outside Program Support	57,000	57,000				57,000	0
38		Outside Consulting Services	20,000	20,000				20,000	0
39									
40	Program	Lakes, TMDLs, Grants	103,000	125,000				125,000	22,000
41	Activities	Natural Resources Program	140,000	120,000				120,000	(20,000)
42		Water Monitoring-Lab Costs & Equip.	180,000	180,000				180,000	0
43		Lake Macrophyte Monitoring and Internal Load Management	70,000	0				0	(70,000)
44		Research Projects	95,000	225,000				225,000	130,000
45		Project Operations	200,000	200,000				200,000	0
46		Education Program	60,000	75,000				75,000	15,000
47		Communications and Marketing	25,000	50,000				50,000	25,000
48		Events	50,000	46,000				46,000	(4,000)
49		Health & Safety Program/Staff In-House Training	3,000	3,000				3,000	0
50									
51	Capital Improvements	Maplewood Mall SRF Loan Debt Service	92,238		0	91,848		91,848	(390)
52	Summary	Beltline and Battle Creek Tunnel Repair Debt Service	302,663		0	302,863		302,863	200
53		District Office Building Bond Payment	194,885		0	0		0	(194,885)
54		Targeted Retrofit Projects	2,810,000		0	1,500,000		1,500,000	(1,310,000)
55		Stewardship Grant Fund	1,000,000		350,000	650,000		1,000,000	0
56		Project Repair & Maintenance	1,325,000		1,500,000			1,500,000	175,000
57		Wetland Restoration Projects	500,000		0	500,000		500,000	0
58		Flood Risk Reduction Fund	4,200,000		1,700,000	3,500,000		5,200,000	1,000,000
		Totals	14,424,286	4,230,000	3,550,000	6,544,710	0	14,324,710	(99,576)

	Budget Total	Budget Total By Fund		Proposed Levy
		General Fund	CIB	
2022 Budget Total and totals by fund	14,324,710	4,230,000	10,094,710	6,735,000
2021 Budget Total and totals by fund	14,424,286	3,999,500	10,424,786	6,763,498
2022 Budget Increase or (Decrease) from 2021 Budget	(99,576)	230,500	(330,076)	(28,498)
2022 Budget % change from 2021 Budget	-0.69%	5.76%	-3.17%	-0.42%



\* \* \* \* \*

# Presentations

\* \* \* \* \*

## Memorandum

**To:** RWMWD Board of Managers  
**From:** Erin Anderson Wenz, Lulu Fang, Kim Baker, and Parker Brown (Barr Engineering Co.)  
**Subject:** Update on Kohlman Creek Subwatershed Flood Risk Reduction Study and Ames Lake Area Flood Risk Reduction Study (Part 2)  
**Date:** December 2, 2021  
**Project:** 23621200.20 and 23621200.21  
**c:** Tina Carstens and Brad Lindaman

The purpose of this technical memorandum is to provide project update reference materials that will be discussed at the Ramsey-Washington Metro Watershed District's (District's or RWMWD's) December Board meeting. Barr Engineering Co. (Barr) will give a final update on these efforts to the Board at the January meeting.

### 1.1 Background and Overview of Recommendations

Last month, Barr provided the managers with a technical memorandum dated October 28, 2021, titled "Update on RWMWD Emergency Response Plans, Kohlman Creek Subwatershed Flood Risk Reduction Study, and Ames Lake Area Flood Risk Reduction Study." This memo expands upon that document.

Since 2020, the District has conducted feasibility studies that further evaluate the concept-level modifications proposed in the Beltline Resiliency Study through a series of phases. This technical memorandum addresses proposed flood mitigation options for Phase 3 (Kohlman Creek and Willow Creek) and Phase 4 (Phalen Chain of Lakes, including the Ames Lake area).

#### 1.1.1 Prioritization- How did RWMWD decide where to focus on potential system modifications for flood risk reduction? Why here and why now?

In 2018, the Ramsey-Washington Metro Watershed District (District) completed an evaluation to identify potentially flood-prone habitable structures based on updated rainfall depths published in Atlas 14. Using results from the validated XP-SWMM models, Barr updated flood area extents and identified flood-risk areas. As a result, numerous structures were identified in flood-risk areas upstream of the District's Beltline storm sewer.

Barr detailed this work in a technical memorandum dated September 4, 2018, titled "Identification and Prioritization of Potentially Flood-Prone Structures." This documents the methodology used to identify and prioritize flood-risk areas and develop planning-level opinions of cost for each flood-risk area. An excerpt from this memo related to prioritization is included as an appendix to this memorandum.

Going forward, now that we have more detail on project options, further prioritization of projects will depend on specific costs and benefits; it may be cost-prohibitive to implement all the activities described

in this memorandum. Costs and benefits of the projects described in this memorandum will be presented to the Board at the January 2022 meeting.

### 1.1.2 Overview of Recommendations for System Modifications

An overview of recommendations for system modifications is included below. To help navigate the overview figures (as well as the rest of the figures included in this technical memorandum), some explanation on the color-coding of structures in the legends of the figures is provided below:

**“Reliant on Site-Scale Solution (District)” [red]:** This is a “District” (as opposed to “Local”) structure that remains at risk of flooding during the 100-year event despite the system modifications (if any) proposed for the area.

**“Local Structure” [orange]:** This is a “Local” (as opposed to “District”) structure that remains at risk of flooding during the 100-year event despite the system modifications (if any) proposed for the area. Note that most of the system modifications proposed are not specifically targeting the removal of “Local” structures from the 100-year floodplain, though sometimes they benefit from system modifications (like the Maplewood City Hall campus under scenario 4B-3C, for example).

**“No Longer Considered to be in the 100-year Floodplain” [green]:** This is a structure that was thought to be in the 100-year floodplain at the time of the Beltline Resiliency Study that is no longer deemed to be at risk of flooding for the purposes of this study. The structure’s removal from the 100-year floodplain can be due to the fact that surveying revealed a higher low entry elevation than anticipated, or because the Lake Phalen and Keller Creek Outlet Structures project lowered 100-year flood levels enough to bring the structure out of the 100-year floodplain.

**“Reliant on System Modification” [purple]:** This is a structure that can be removed from the 100-year floodplain if the proposed system modification for the area is implemented. Typically, these are “District” structures, but sometimes “Local” structures will benefit from a system modification as well as described above.

#### 1.1.2.1 Phase 3: Kohlman Creek and Willow Creek

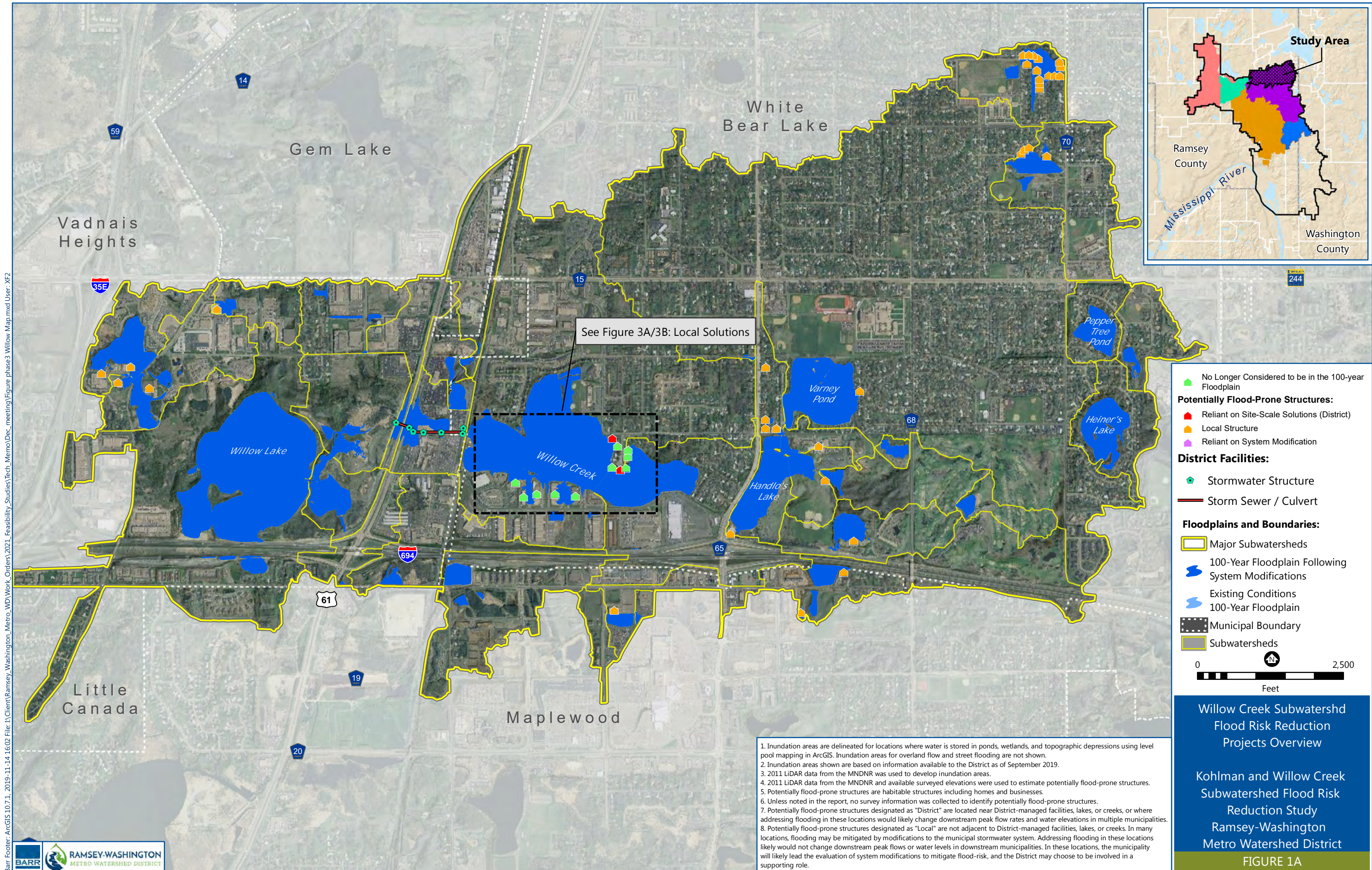
An overview of preliminary recommendations for system modifications in Phase 3 areas is provided in Figure 1A (Willow Creek Subwatershed) and Figure 1B (Kohlman Creek Subwatershed). Further descriptions of all the elements shown in Figures 1A and 1B are provided in subsequent sections of this report.

#### 1.1.2.2 Phase 4: Phalen Chain of Lakes (including the Ames Lake Area)

An overview of preliminary recommendations for system modifications in Phase 4 areas is provided in Figure 2 (Phalen Chain of Lakes Subwatershed). Further descriptions of all the elements shown in Figure 2 are provided in subsequent sections of this report.

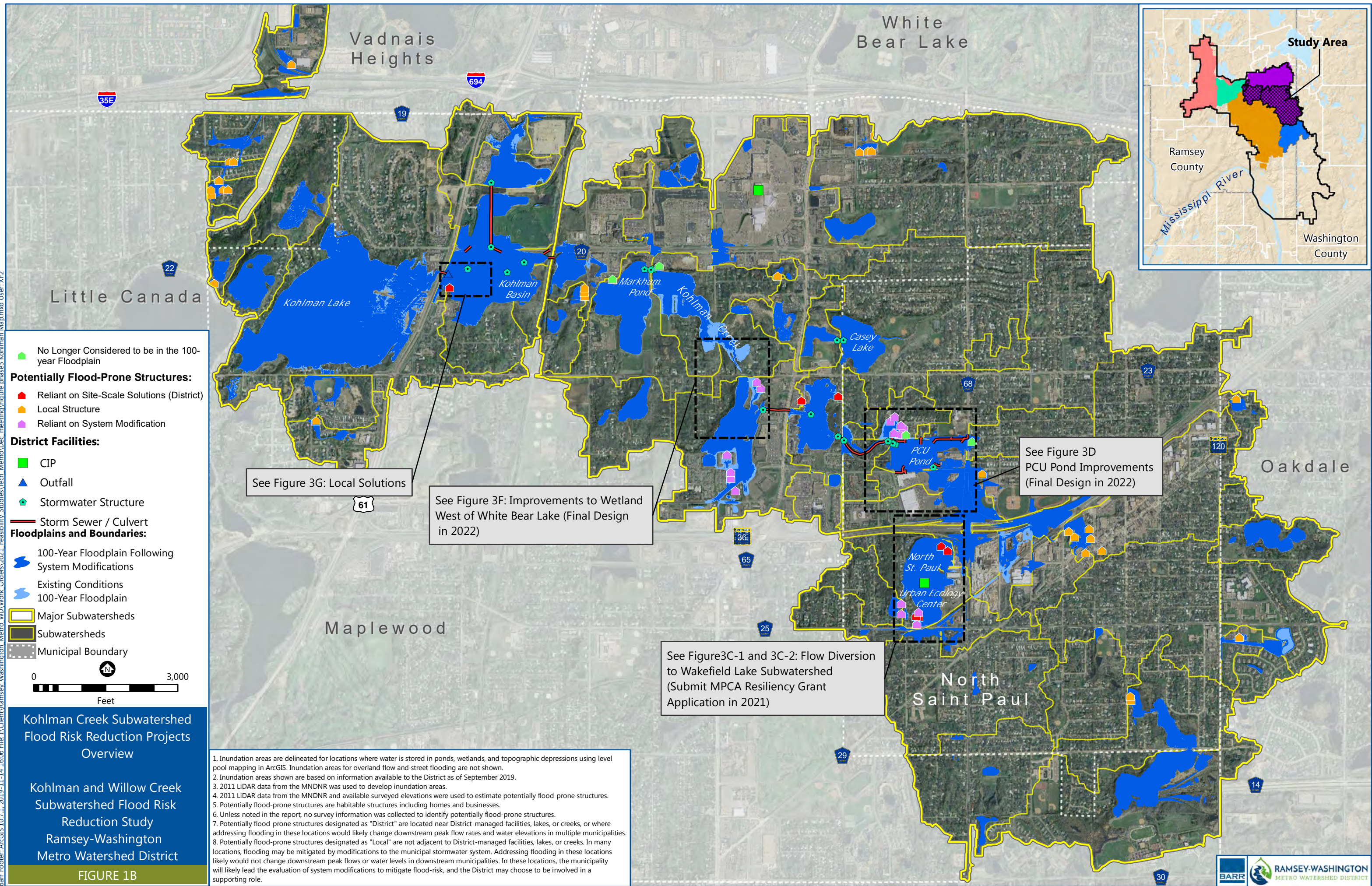


Barr Footer: ArcGIS 10.7.1, 2019-11-14 16:02 File: i:\Client\Ramsey\_Washington\_Metro\_WD\Work\_Orders\2021\_Feasibility\_Studies\Tech\_Memo\Dec\_meeting\Figure phase3 Willow Map.mxd User: XF2

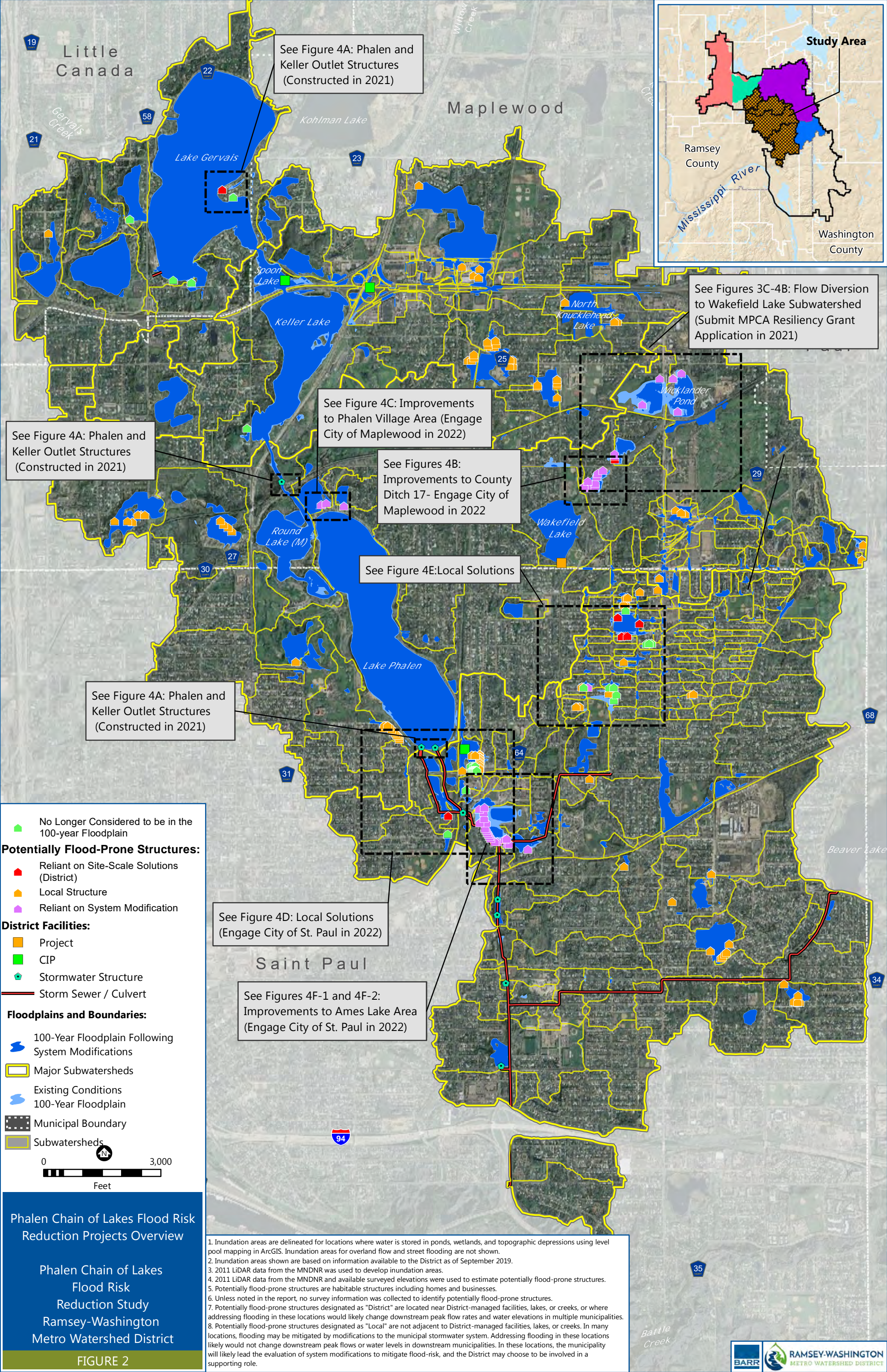




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## 1.2 Study Limitations

The system modifications presented here represent an approach for possible mitigation of flood risk for habitable structures within the District. However, as with any study and model of natural systems, there are limitations. There are practical limits on the level of detail used to achieve the study objectives. Although data sets for model inputs are frequently updated, they are not always complete or error-free. Nonetheless, the data is useful and appropriate for this study. Acknowledgment of study limitations is important so that the findings and recommendations can be used with professional judgment in developing recommendations consistent with the study's intent. Understanding the limitations also makes it easier for future evaluations to build on the results of this study.

Major assumptions for this study are listed below:

- Possible system modifications may require permits, approvals and easement acquisitions from cities, agencies, and/or property owners. During the evaluation, potential system modifications were not discussed with other local permitting jurisdictions to determine permit requirements or gain stakeholder approvals. Permit requirements and approval contingencies may change the configuration or function of system modifications.
- Potentially flood-prone structures were identified based on topographic information and aerial photographs available at the time of the evaluation. Only limited survey information was available in many parts of RWMWD.
- The District stormwater model was developed and calibrated to District-managed lakes, creeks, and facilities. It is important to note that the models developed do not simulate all the local storm sewer systems within the watershed. As a result, each city may identify separate, localized flooding areas not discussed in this report. The District should continue to work cooperatively with the cities to address localized flooding concerns and manage inflows to District water bodies.
- Data sets used for model development are not always complete or error-free. In general, the RWMWD stormwater model was developed using a combination of survey information, as-built plans, LiDAR, and GIS information publicly accessible and/or provided by municipalities and other public agencies within the District. As additional information is collected or provided by the municipalities and public agencies, the number of potential flood-prone structures may change, and the potential system modifications necessary to mitigate flood risk may change accordingly.

## 1.3 System Modifications Considered and Evaluated

The District stormwater model evaluated possible modifications to the stormwater system within the Phase 3 and 4 areas originally defined in the Beltline Resiliency Study. Several modifications were considered to determine which, if any, recommendations for future feasibility studies could be made. The goal of each system modification evaluated is to lower the 100-year floodplain elevation below the low adjacent grade of the lowest habitable structure. Providing freeboard above the flood elevation generated

by the 100-year event is not evaluated, and potential increases to the 100-year floodplain due to climate change are not considered.

In general, potential system modifications are in the following general categories:

- **Decrease conveyance capacity**—Reducing the conveyance capacity through culverts and lake outlet structures with excess capacity (the 100-year water level is more than 2 feet lower than the low adjacent grade of existing structures). This would be done upstream of potentially flood-prone structures.
- **Increase flood storage volume**—Providing additional flood storage volume either aboveground (e.g., excavating stormwater ponds to increase surface area or creating new stormwater ponds) or underground (e.g., storage chambers).
- **Modification of overflow**—Modifications to existing overflows to either redirect runoff or provide additional upstream storage volume. Overflow modifications evaluated include raising roads and/or trails.
- **Modification to storm sewer system**—Storm sewer modifications that redirect drainage from flood-prone areas to downstream locations with available storage volume.
- **Mechanical operation of outlet structures**—Operation of the Lake Phalen and Keller Lake outlet structures to optimize floodplain storage in the Phalen Chain of Lakes and control discharge into the Beltline. Mechanical operation is also being considered for outlet structures from smaller stormwater ponds and wetlands.
- **Increase conveyance capacity**—Increasing the conveyance capacity of culverts, storm sewer, or lake outlets in locations where options for providing additional floodplain storage volume are limited. In locations where conveyance capacity is increased as a part of the evaluations, downstream system modifications are also evaluated to mitigate increases in 100-year water elevations in those areas.
- **Site-scale solutions** are considered where regional options are not effective at removing a structure from a 100-year floodplain. Site-scale solutions include:
  - **Floodproofing**—In some locations, floodproofing (i.e., localized grading or structural modifications) is a viable option. This solution could be applied in locations where the 100-year water level is a few tenths above the adjacent low-entry elevation of the structure.
  - **Local berms**—Local berms may be an option to keep flooding away from structures in locations where the 100-year flood level is between a few tenths and a few feet above the adjacent low entry elevation.
  - **Emergency Response Plans (ERPs)**—An ERP describes the responsibilities for operation and emergency procedures to provide flood protection during extreme flooding events (e.g., sandbagging activities).

## **2.0 Description of Proposed System Modifications**

### **2.1 System modifications Originally Described in the Beltline Resiliency Study**

The Beltline Resiliency Study presented many potential system modifications that could mitigate the risk of flooding to habitable structures during the 100-year event throughout the Phase 3 and Phase 4 portions of RWMWD. Some of these ideas were carried forward to the studies presented in this technical memorandum, but many were not. In some cases, they were no longer needed after surveys or model updates indicated that certain structures were no longer at risk of flooding. In other cases, other optimized alternatives were pursued. And some projects have already been implemented, such as the North St. Paul Target stormwater retrofit project and the Lake Phalen and Keller Creek outlet projects. Lastly, some system modifications were targeted at local flooding issues that are not recommended for prioritization by RWMWD at this time. These concepts will, however, be shared with cities for their consideration, even if not ultimately pursued by RWMWD.

The projects discussed below represent the concepts now considered the highest priority for further design and potential implementation by RWMWD.

### **2.2 System Modifications Proposed for the Willow Lake Subwatershed**

#### **WILLOW CREEK SUBWATERSHED 3A/3B**

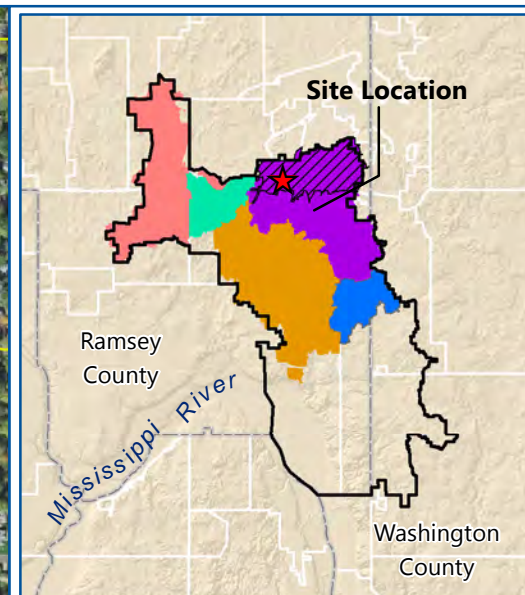
As discussed in 2020, after surveying and modeling updates, many of the homes and businesses in the Willow Creek subwatershed thought to be at risk of flooding during the Beltline Resiliency study were ultimately found to be above the 100-year flood elevation. As such, major system modifications have been deemed unnecessary in this area if site-scale solutions can be developed for the following four properties (listed below and shown in Figure 3A/3B):

- 1790 Orchard Lane, White Bear Lake
- 3200 Orchard Lane, White Bear Lake

Two additional structures could benefit from some localized floodproofing:

- 3255 Orchard Ct, White Bear Lake
- 1793 Buerkle Circle, White Bear Lake (northeast corner of the building below the loading dock door)





No Longer Considered to be in the 100-year Floodplain

**Potentially Flood-Prone Structures:**

Reliant on Site-Scale Solutions (District)

Local Structure

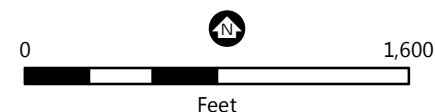
**Existing Storm Sewer Pipe**

Existing Storm Sewer Pipe

**100-Year Floodplain:**

Proposed Inundation

Existing Atlas 14 Inundation



2021 Subproject 3A/3B:  
Willow Lake

Kohlman and Willow Creek Subwatershed  
Flood Risk Reduction Study  
Ramsey-Washington Metro Watershed District

FIGURE 3A/3B



## 2.3 System Modifications Proposed for the Kohlman Creek Subwatershed

### 3C KOHLMAN CREEK—NORTH SAINT PAUL URBAN ECOLOGY CENTER

Potential system modifications to mitigate flood risk near the North Saint Paul Urban Ecology Center are shown in Figure 3C-1 and Figure 3C-2 and include:

- Modifying the storm sewer at 5<sup>th</sup> Street North and the North St. Paul Urban Ecology center inlet to divert high flows to a depression south of the trail and then westward via a diversion route (either a high-flow open channel option or a medium flow pipe/tunnel option). The diversion would follow the Gateway Trail and/or South Avenue E/County Road B to a new storage area located on Ramey County's Goodrich Golf Course. This storage area would be actively managed to hold stormwater in place during storm events, releasing it after downstream peaks in the Beltline storm sewer are passed. This option has the additional benefit of taking "Local" structures on the City of Maplewood's campus out of the 100-year floodplain.
- Raising South Avenue E/County Road B at North St. Paul Urban Ecology Center.
- Localized grading or floodproofing of the building edge at 2220 Highway 36E (Castle Avenue), North St. Paul)

If scenario 3C-2 is pursued (medium-flow diversion), a total of four properties would need site-scale solutions:

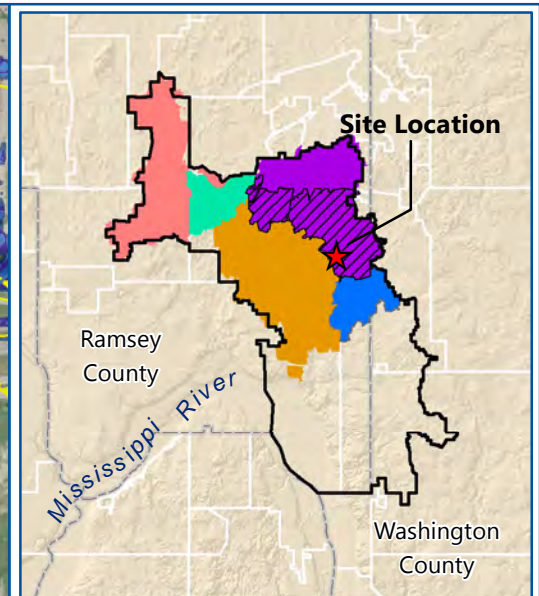
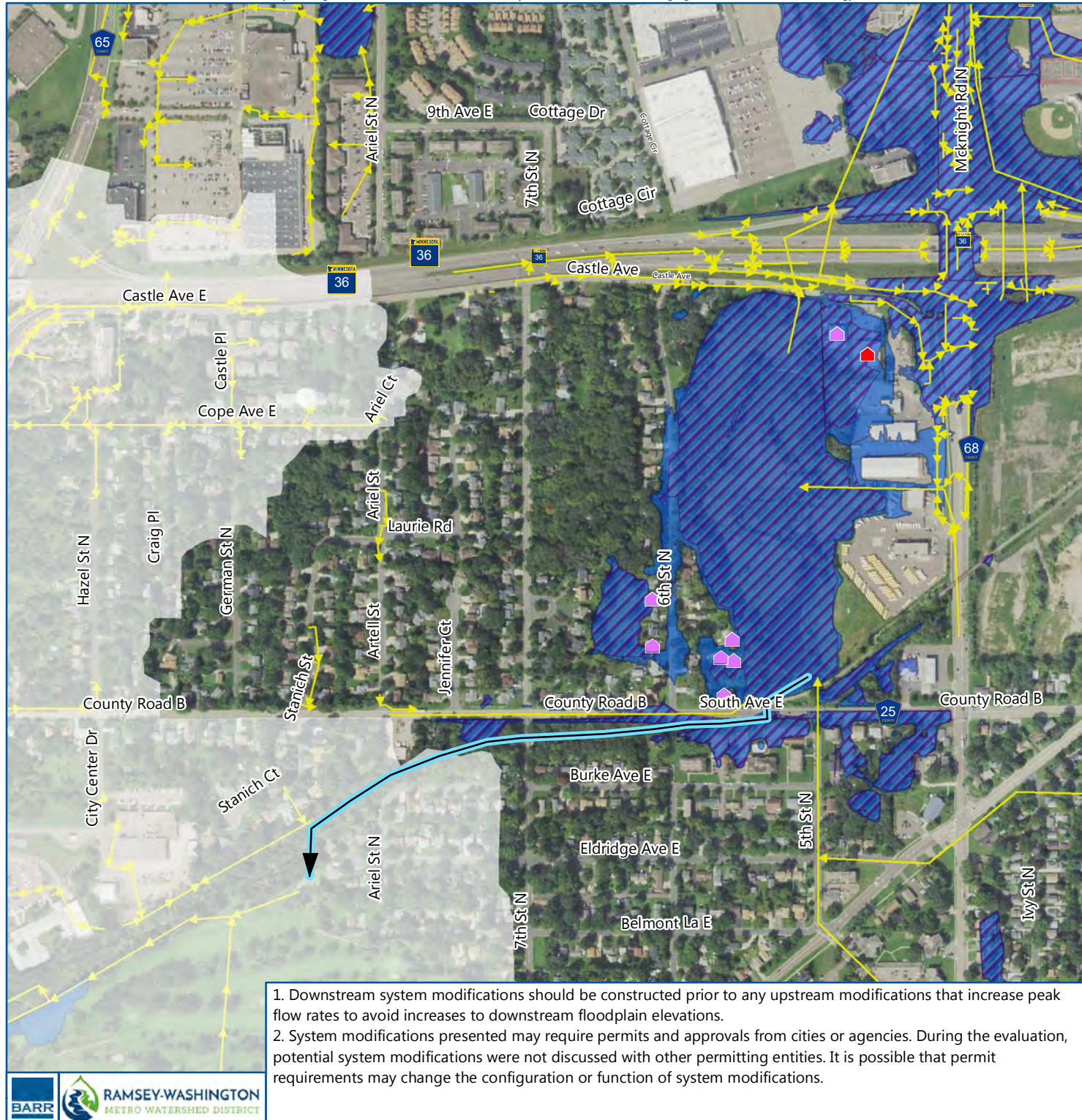
- 2220 Hwy 36 E (Castle Avenue), North St. Paul
- 2204 Hwy 36 E (Castle Avenue), North St. Paul
- Two buildings at 2159 South Avenue E, North St. Paul

### 3D KOHLMAN CREEK—PCU POND

Potential system modifications to mitigate flood risk near PCU Pond are shown in Figure 3D. These include a combination of possible modifications to the storm sewer system and drainage improvements near PCU Pond, which include:

- Adding culvert capacity and a backflow preventer for the outlet from the depression north of 13<sup>th</sup> Avenue East.
- Adding a new berm/weir that directs flow from PCU Pond during high-flow events directly to Kohlman Creek.
- Raising approximately 750 feet of 13th Street East.
- Lowering a section of the berm to Kohlman Creek by approximately 2ft.





#### Potentially Flood-Prone Structures:

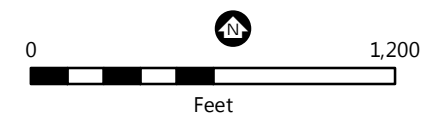
- Reliant on Site-Scale Solutions (District)
- Local Structure
- Reliant on System Modification

#### Existing Storm Sewer Pipe

- Existing Storm Sewer Pipe
- Proposed Channel

#### 100-Year Floodplain:

- ▨ Proposed Inundation
- Existing Atlas 14 Inundation

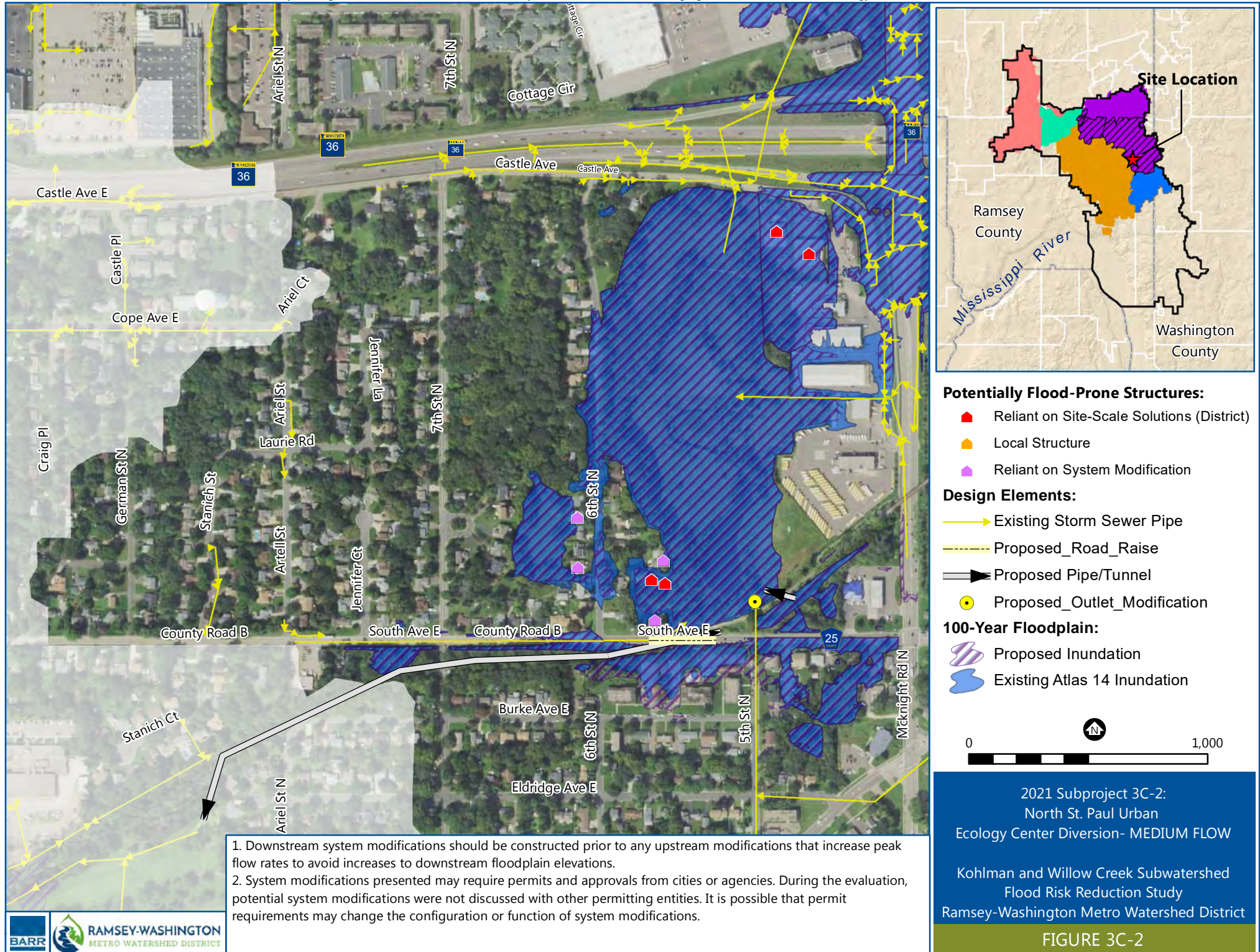


2021 Subproject 3C-1:  
North St. Paul Urban  
Ecology Center Diversion- HIGH FLOW

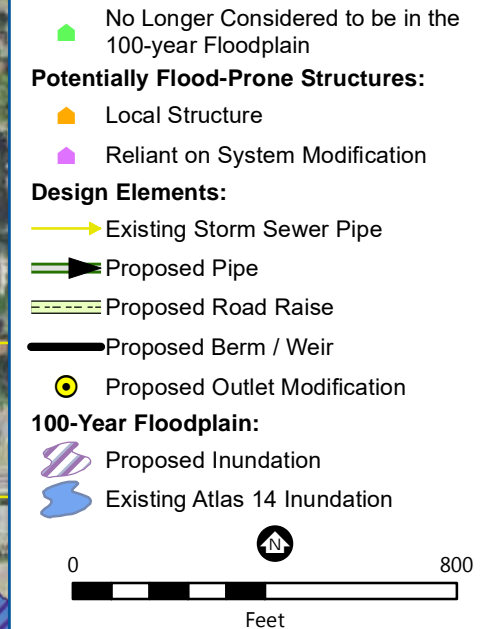
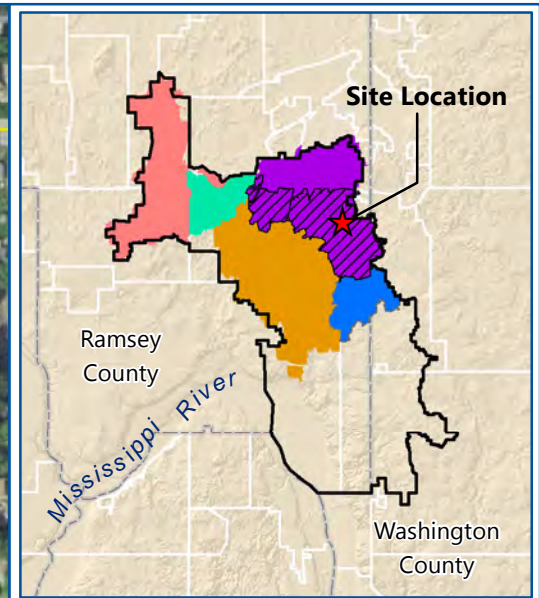
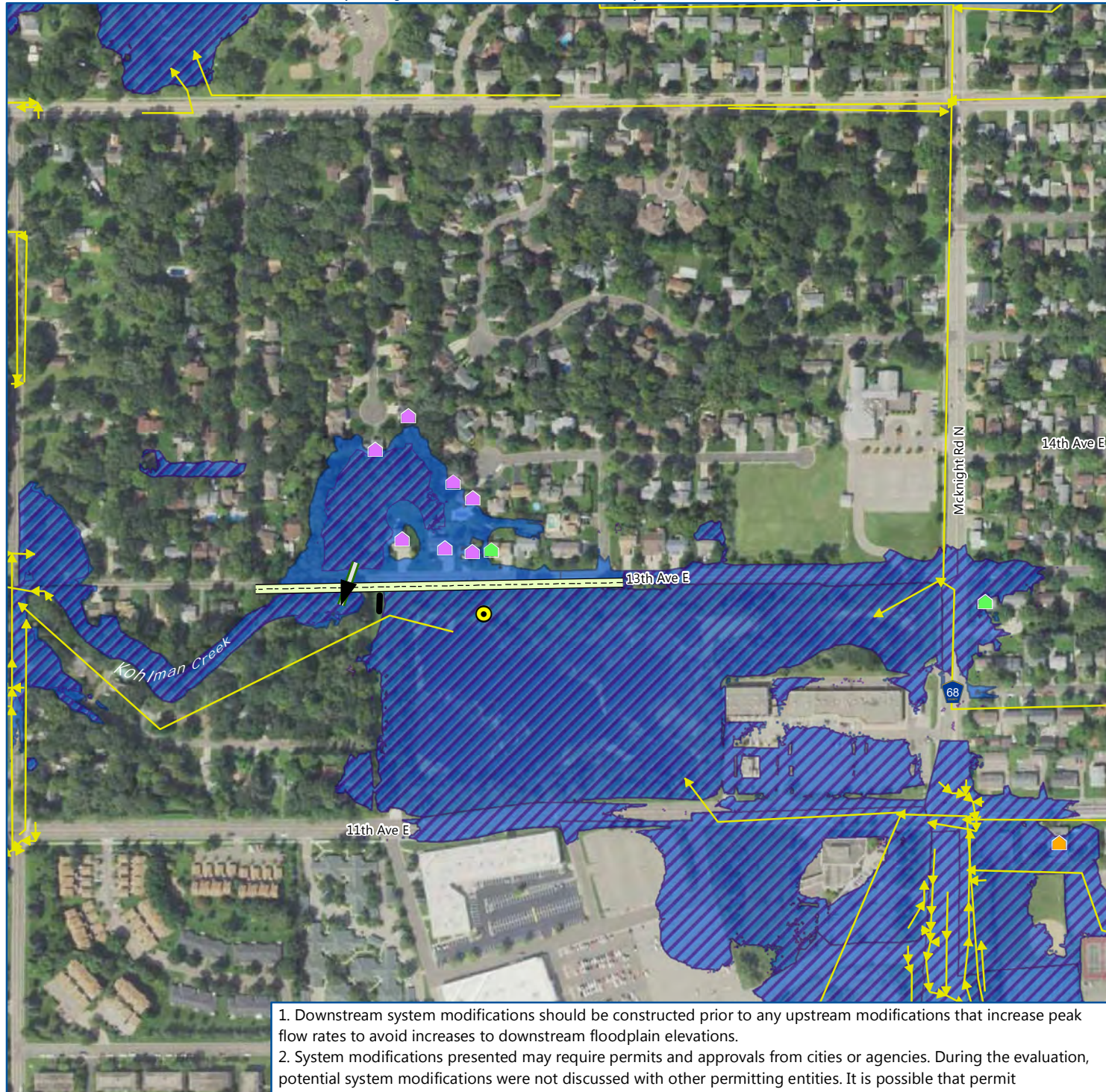
Kohlman and Willow Creek Subwatershed  
Flood Risk Reduction Study  
Ramsey-Washington Metro Watershed District

FIGURE 3C-1









2021 Subproject 3D:  
PCU Pond

Kohlman and Willow Creek Subwatershed  
Flood Risk Reduction Study  
Ramsey-Washington Metro Watershed District

FIGURE 3D

### **3E KOHLMAN CREEK—CASEY LAKE**

No system modifications are proposed for this area at this time.

### **3F KOHLMAN CREEK—WEST OF WHITE BEAR AVENUE NORTH**

Potential modifications to mitigate flood risk downstream of White Bear Avenue North are shown in Figure 3F and described below:

- Providing additional culvert capacity at County Road C.
- Adding a berm that cuts off the water flow from the main body of the wetland into the northeast corner of the wetland.
- Adding a pipe that can drain water away from the northeast corner of the wetland (away from houses).

Even with these proposed changes, two properties in this area remain at risk of flooding under scenario 3F. They would be reliant on site-scale solutions to protect them from flooding during the 100-year event. These properties are listed below:

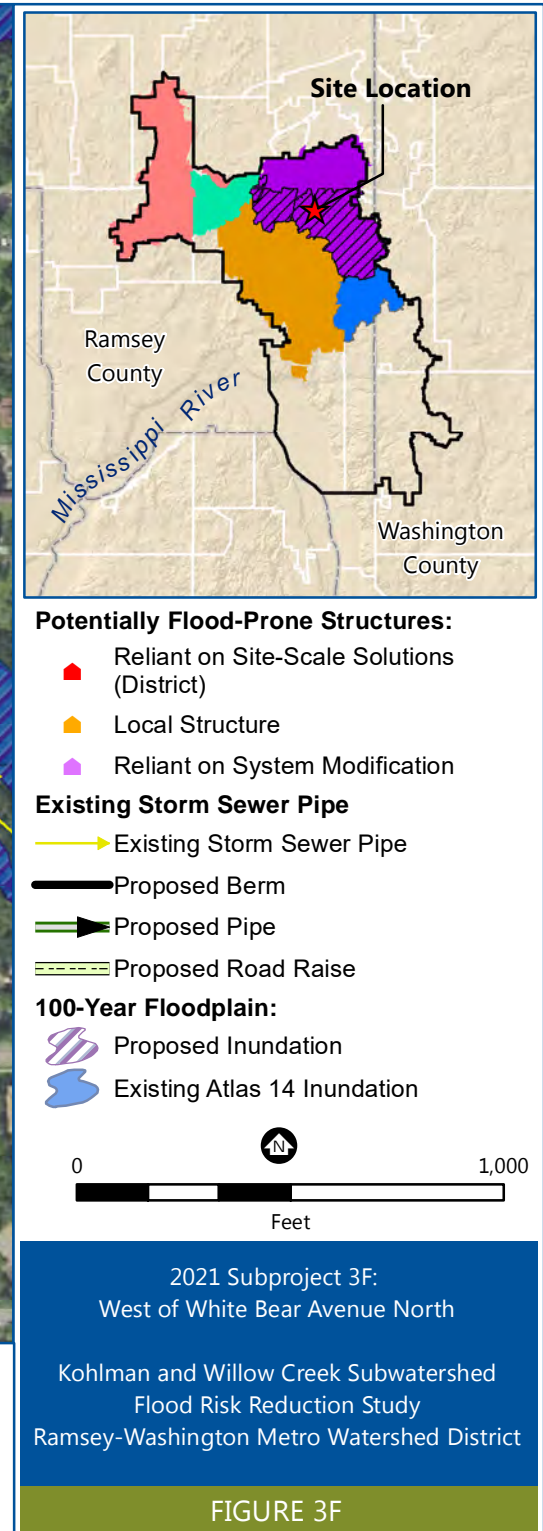
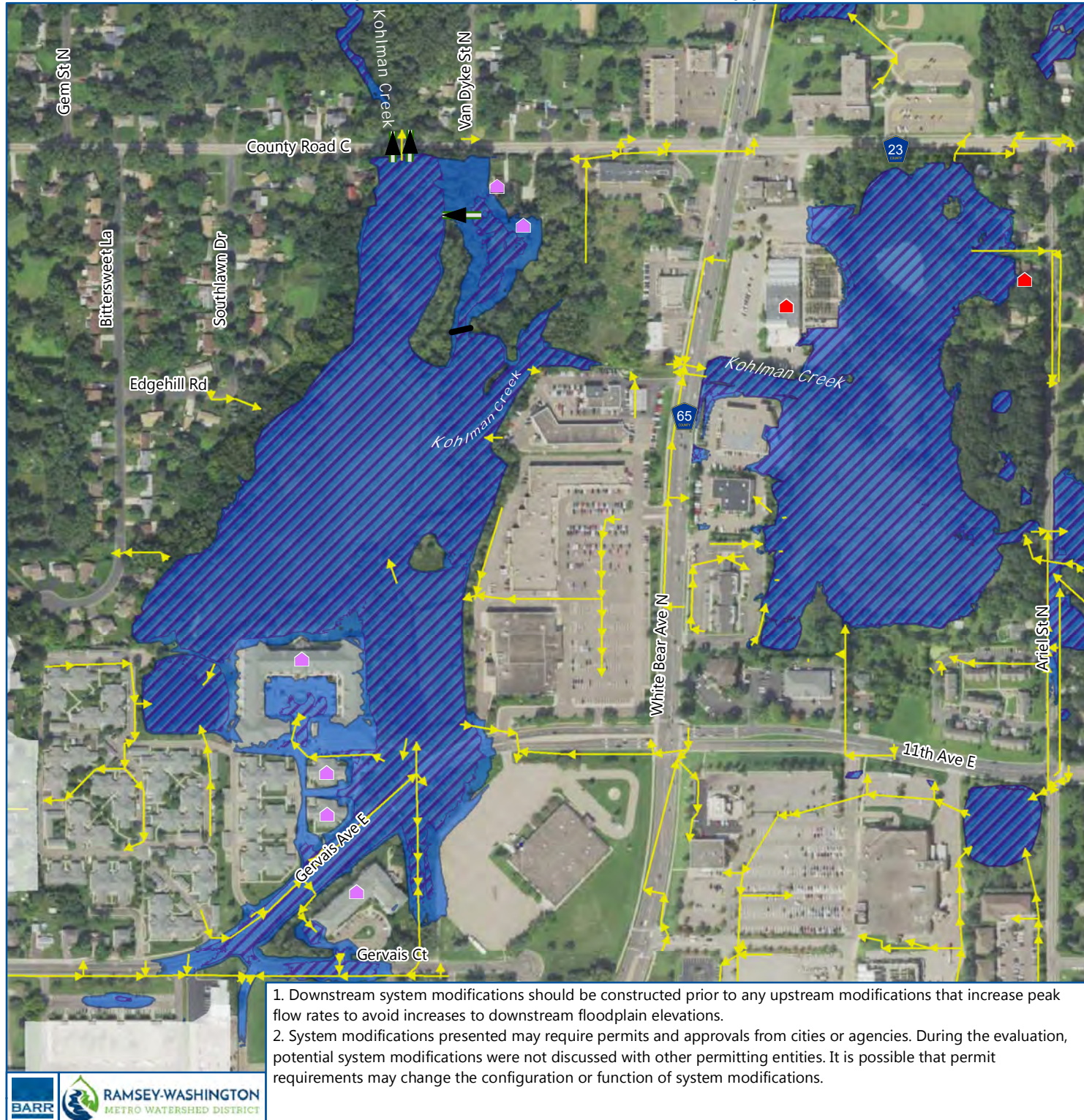
- 2599 Ariel Street, Maplewood
- 2600 White Bear Avenue, Maplewood

### **3G KOHLMAN CREEK—THE KOHLMAN BASIN**

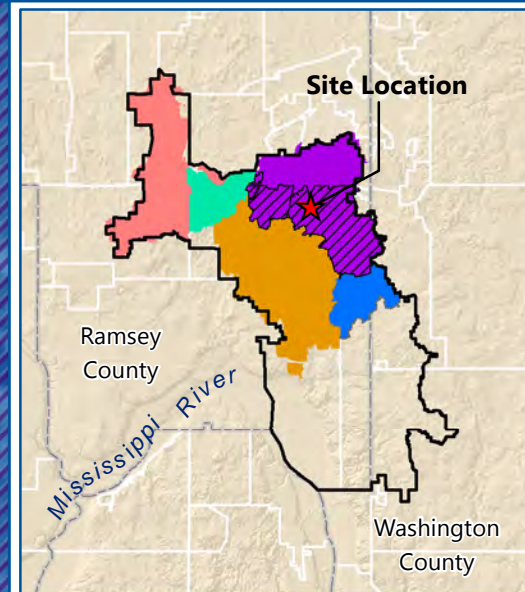
No system modifications are proposed for this area at this time. However, one property shown in Figure 3G and named below would still be reliant on site-scale solutions to protect it from flooding during the 100-year event:

- 2806 Maplewood Drive, Maplewood









#### Potentially Flood-Prone Structures:

- Reliant on Site-Scale Solutions (District)

#### Existing Storm Sewer Pipe

- Existing Storm Sewer Pipe

- Proposed Berm

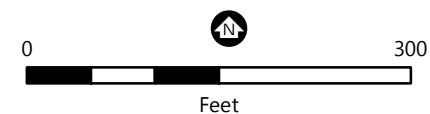
- Proposed Pipe

- Proposed Road Raise

#### 100-Year Floodplain:

- Proposed Inundation

- Existing Atlas 14 Inundation



2021 Subproject 3G:  
Kohlman Basin

Kohlman and Willow Creek Subwatershed  
Flood Risk Reduction Study  
Ramsey-Washington Metro Watershed District

FIGURE 3G



## 2.4 System Modifications Proposed for the Phalen Chain of Lakes Subwatershed

### 4A LAKE PHALEN AND KELLER CREEK OUTLET STRUCTURES

Modifications to the control structures on Keller Creek (downstream of Keller Lake) and Lake Phalen (shown in Figure 4A) included adjustments to actively manage water levels on the Phalen Chain. Active management allows for adjusting the timing of when water is conveyed into the Beltline while not lowering the normal water level in the Chain. The general operation of the outlet structures includes (1) lowering the outlets as water levels increase so more water will be conveyed to the Beltline and (2) raising the outlets to their existing levels when the Beltline is near its capacity to minimize the downstream impacts.

One home on Gervais Lake remains at risk of flooding and is still reliant on site-scale solutions to protect it from flooding during the 100-year event:

- 737 Carla Lane, Little Canada

### 4B WAKEFIELD LAKE- COUNTY DITCH 17

The storm sewer between the intersection of Frost Avenue East and Kennard Street North (under County Ditch 17) is undersized. Additional storm sewer capacity is shown in Figure 4B. The additional storm sewer capacity would lower the floodplain elevation upstream of Frost Avenue East and increase the water surface elevation in Wakefield Lake by 0.7 feet. With these changes, the 100-year water level in Wakefield Lake would still be approximately 2 feet lower than adjacent habitable structures.

Even with these proposed changes, one property in this area would remain at risk of flooding under scenario 4B and would be reliant on site-scale solutions to protect it from flooding during the 100-year event:

- 1936 Kennard Street, Maplewood 55109

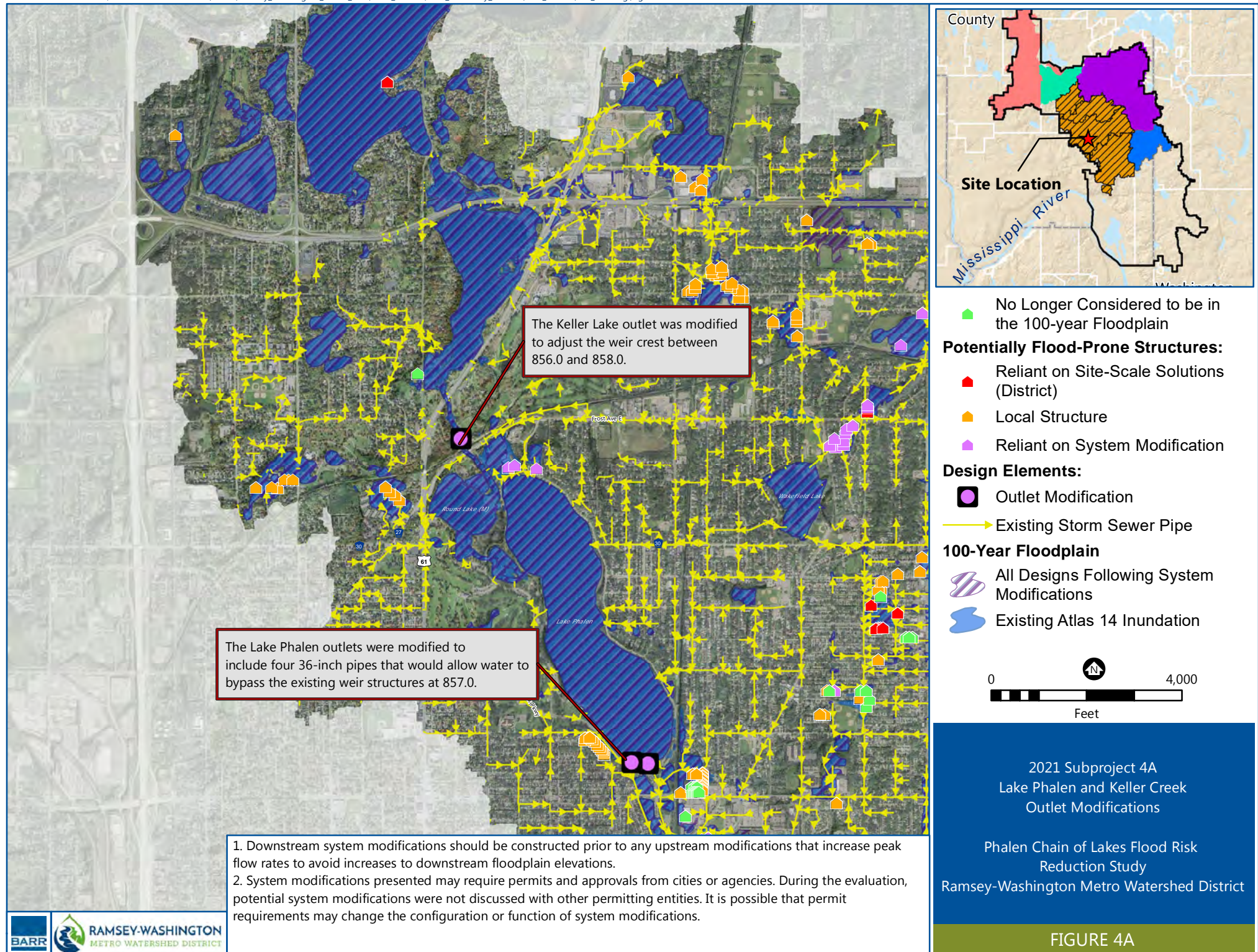
### 4B-3C COMBINATION

If either 3C-1 or 3C-2 (Diversion from North St. Paul Urban Ecology Center) are implemented in conjunction with 4B, there are additional benefits to the areas upstream of Wakefield Lake as well as to the areas on the City of Maplewood campus (these are "Local" structures). Combining both projects would require a shorter section of pipe between the intersection of Frost Avenue East and Kennard Street North, as shown in Figure 4B-3C.

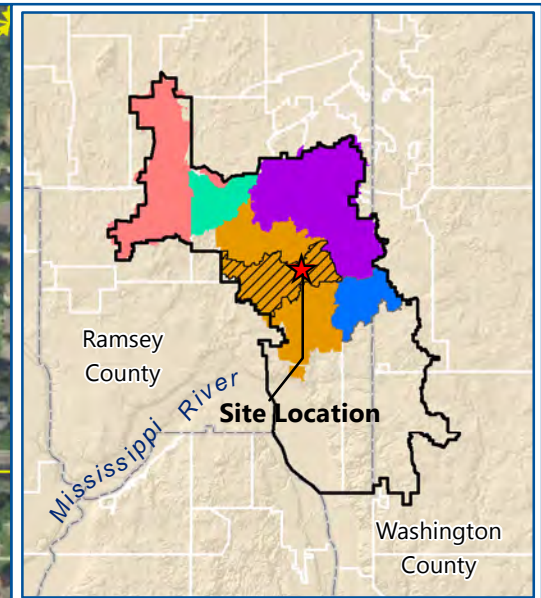
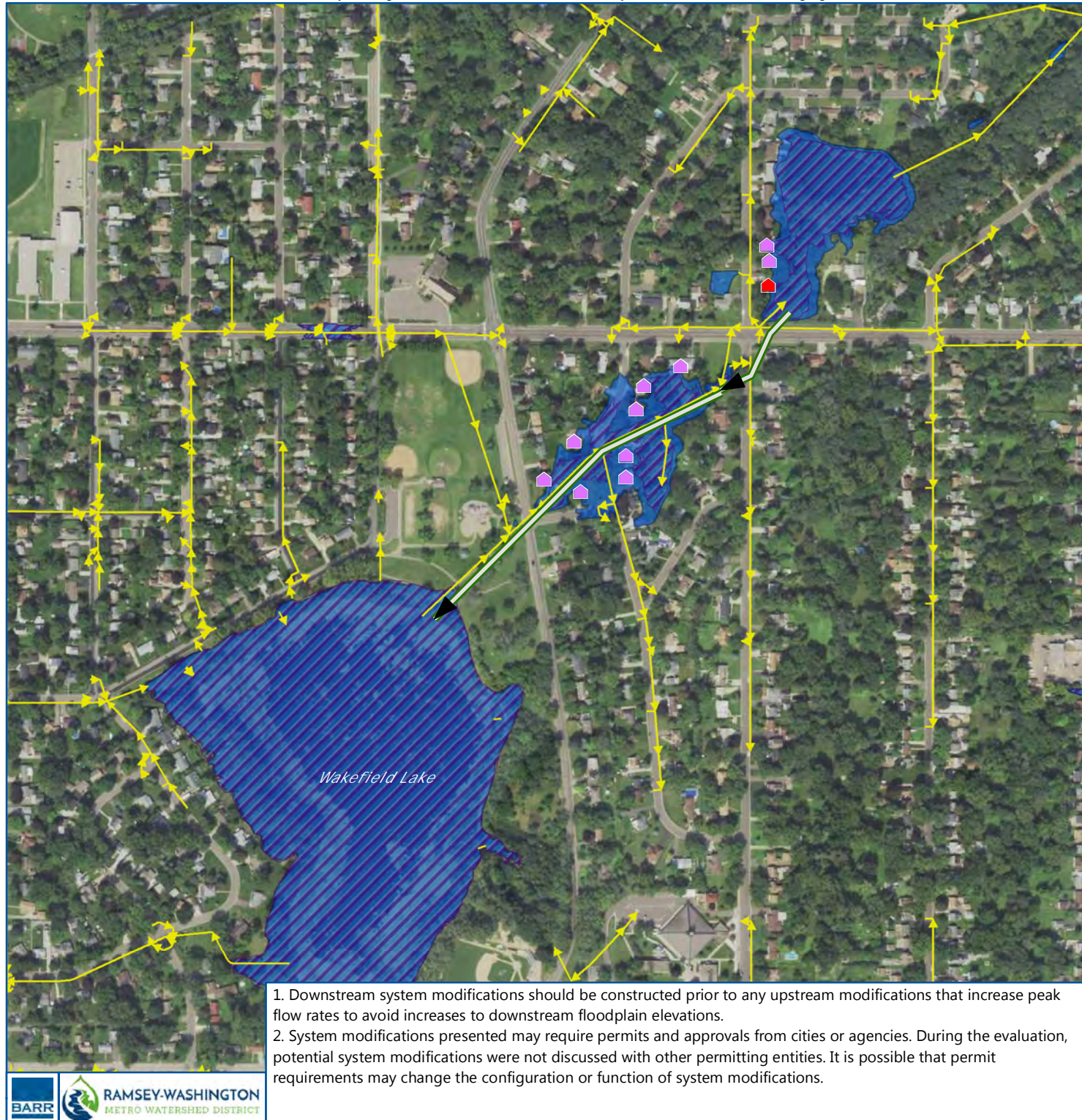
Even with these proposed changes, one property in this area would remain at risk of flooding under this scenario and would be reliant on site-scale solutions to protect it from flooding during the 100-year event:

- 1936 Kennard Street, Maplewood 55109









#### Potentially Flood-Prone Structures:

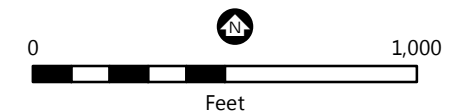
- Reliant on Site-Scale Solutions (District)
- Reliant on System Modification

#### Design Elements:

- Existing Storm Sewer Pipe
- Proposed Pipe

#### 100-Year Floodplain:

- Proposed Inundation
- Existing Atlas 14 Inundation

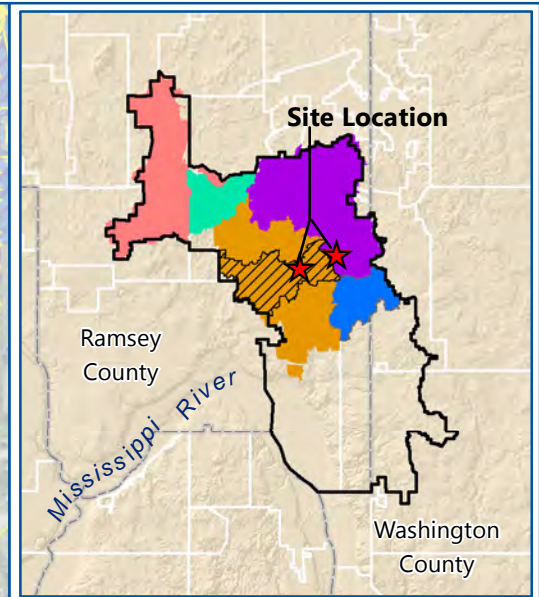
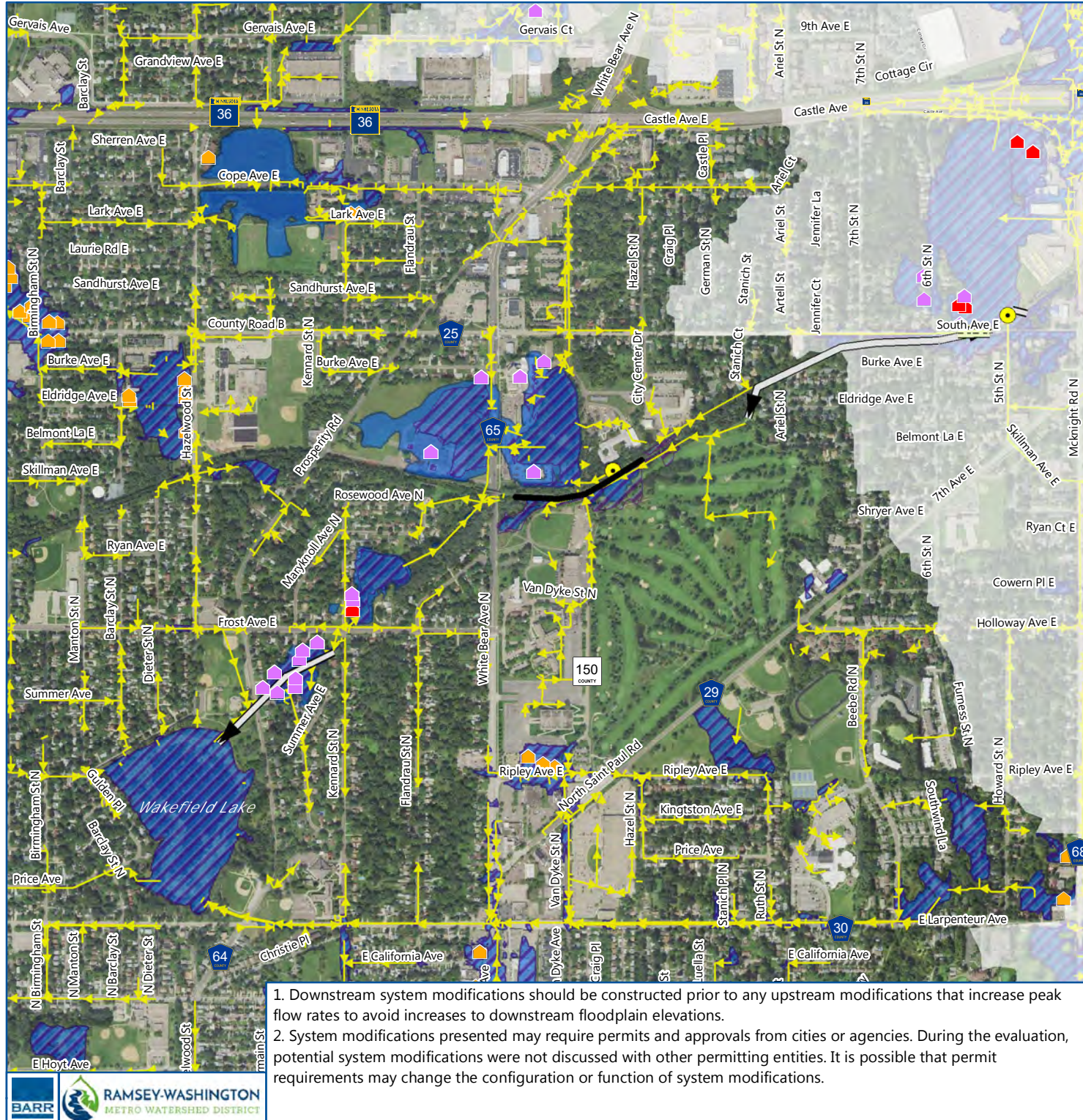


2021 Subproject 4B:  
Ditch Upstream of Wakefield  
Lake- County Ditch 17

Phalen Chain of Lakes Flood Risk  
Reduction Study  
Ramsey-Washington Metro Watershed District

FIGURE 4B





**Potentially Flood-Prone Structures:**

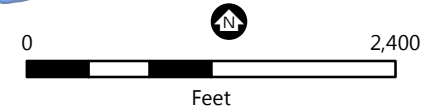
- Reliant on Site-Scale Solutions (District)
- Local Structure
- Reliant on System Modification

**Design Elements:**

- Existing Storm Sewer Pipe
- Proposed Berm with Outlet Control
- Proposed Road Raise
- Proposed Pipe/Tunnel
- Proposed Outlet Modification

**100-Year Floodplain:**

- ▨ Proposed Inundation
- ▨ Existing Atlas 14 Inundation



2021 Subproject 4B-3C  
Combined

Phalen Chain of Lakes Flood Risk  
Reduction Study  
Ramsey-Washington Metro Watershed District

FIGURE 4B-3C



#### **4C PHALEN VILLAGE**

Impacts in this area are due to a combination of high water levels in Lake Phalen and local storm sewer capacity. Following the improvements discussed in scenario 4A, additional storm sewer capacity is still required to further lower the 100-year levels. Storm sewer modifications are shown in Figure 4C.

#### **4D DULUTH STREET RECREATIONAL CENTER**

No system modifications are proposed for this area at this time. However, one property shown in Figure 4D and named below would still be reliant on site-scale solutions to protect it from flooding during the 100-year event:

- 1275 Magnolia Avenue, St. Paul

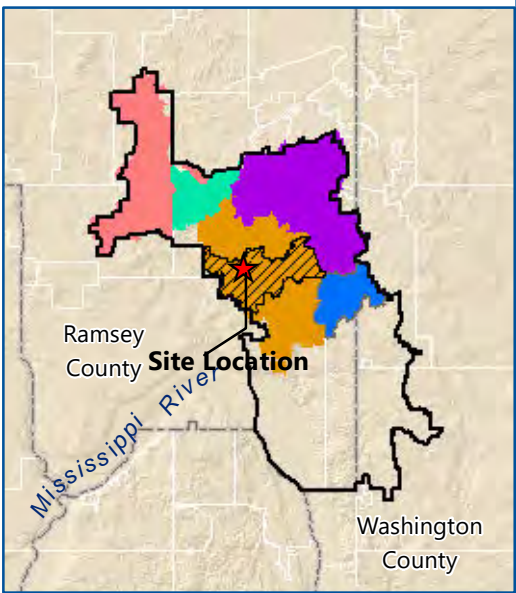
The large number of structures shown along and near N Clarence Street are considered "Local," not "District" structures. Some site-scale solutions drafted for this area will be shared with the City of St. Paul for consideration.

#### **4E HILLCREST KNOLL PARK**

No system modifications are proposed for this area at this time. However, six properties shown in Figure 4E and listed below would still be reliant on site-scale solutions to protect them from flooding during the 100-year event:

- 1671 Hoyt Avenue, St. Paul
- 1680 Montana Avenue, St. Paul
- 1684 Montana Avenue, St. Paul
- 1690 Montana Avenue, St. Paul
- 1696 Montana Avenue, St. Paul
- 1720 Hoyt Avenue, St. Paul

Between Hillcrest Knoll Park and Hoyt Pond, there are several "Local" structures (not "District") that remain at risk of flooding during the 100-year event. Some Site-scale solutions have been drafted for this area- they will be shared with the City of St. Paul for consideration.



**Potentially Flood-Prone Structures:**

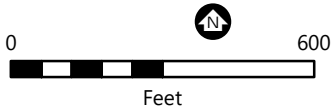
- Reliant on System Modification

**Design Elements:**

- Existing Storm Sewer Pipe
- Proposed Pipe

**100-Year Floodplain:**

- Proposed Inundation
- Existing Atlas 14 Inundation

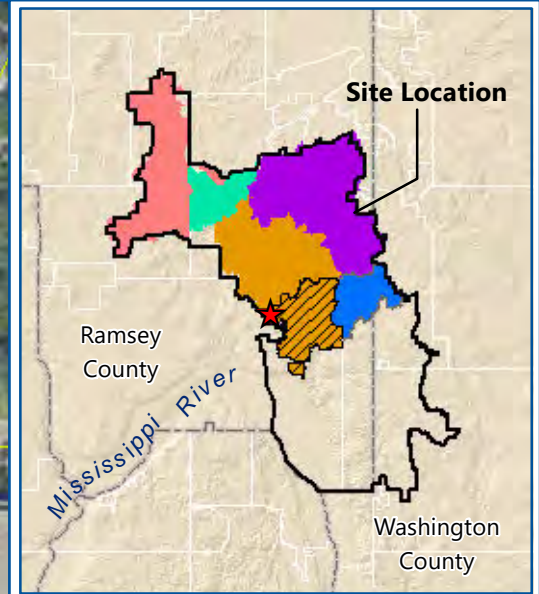


1. Downstream system modifications should be constructed prior to any upstream modifications that increase peak flow rates to avoid increases to downstream floodplain elevations.
2. System modifications presented may require permits and approvals from cities or agencies. During the evaluation, potential system modifications were not discussed with other permitting entities. It is possible that permit requirements may change the configuration or function of system modifications.





1. Downstream system modifications should be constructed prior to any upstream modifications that increase peak flow rates to avoid increases to downstream floodplain elevations.
2. System modifications presented may require permits and approvals from cities or agencies. During the evaluation, potential system modifications were not discussed with other permitting entities. It is possible that permit requirements may change the configuration or function of system modifications.



■ No Longer Considered to be in the 100-year Floodplain

#### Potentially Flood-Prone Structures:

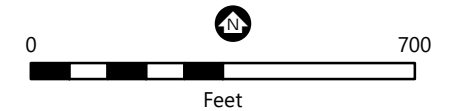
- Reliant on Site-Scale Solutions (District)
- Local Structure
- Reliant on System Modification

#### Design Elements:

→ Existing Storm Sewer Pipe

#### 100-Year Floodplain:

- Proposed Inundation
- Existing Atlas 14 Inundation

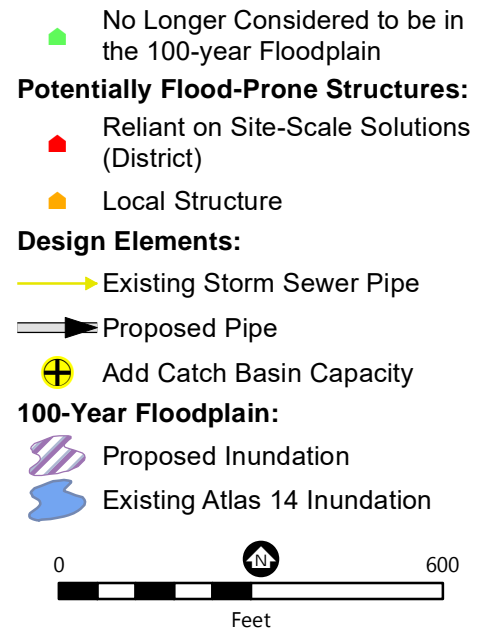
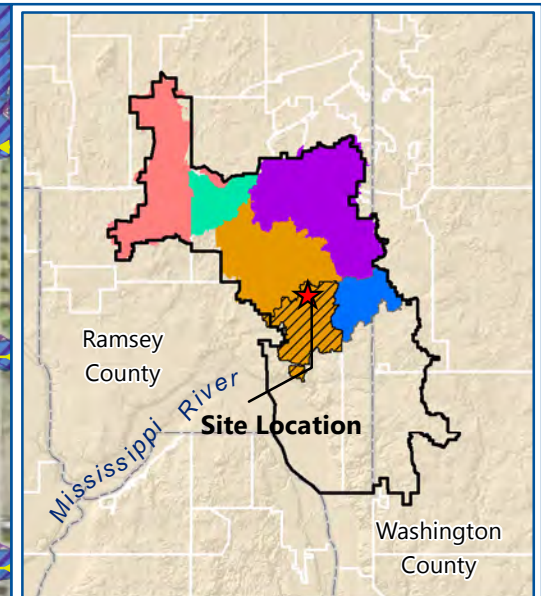
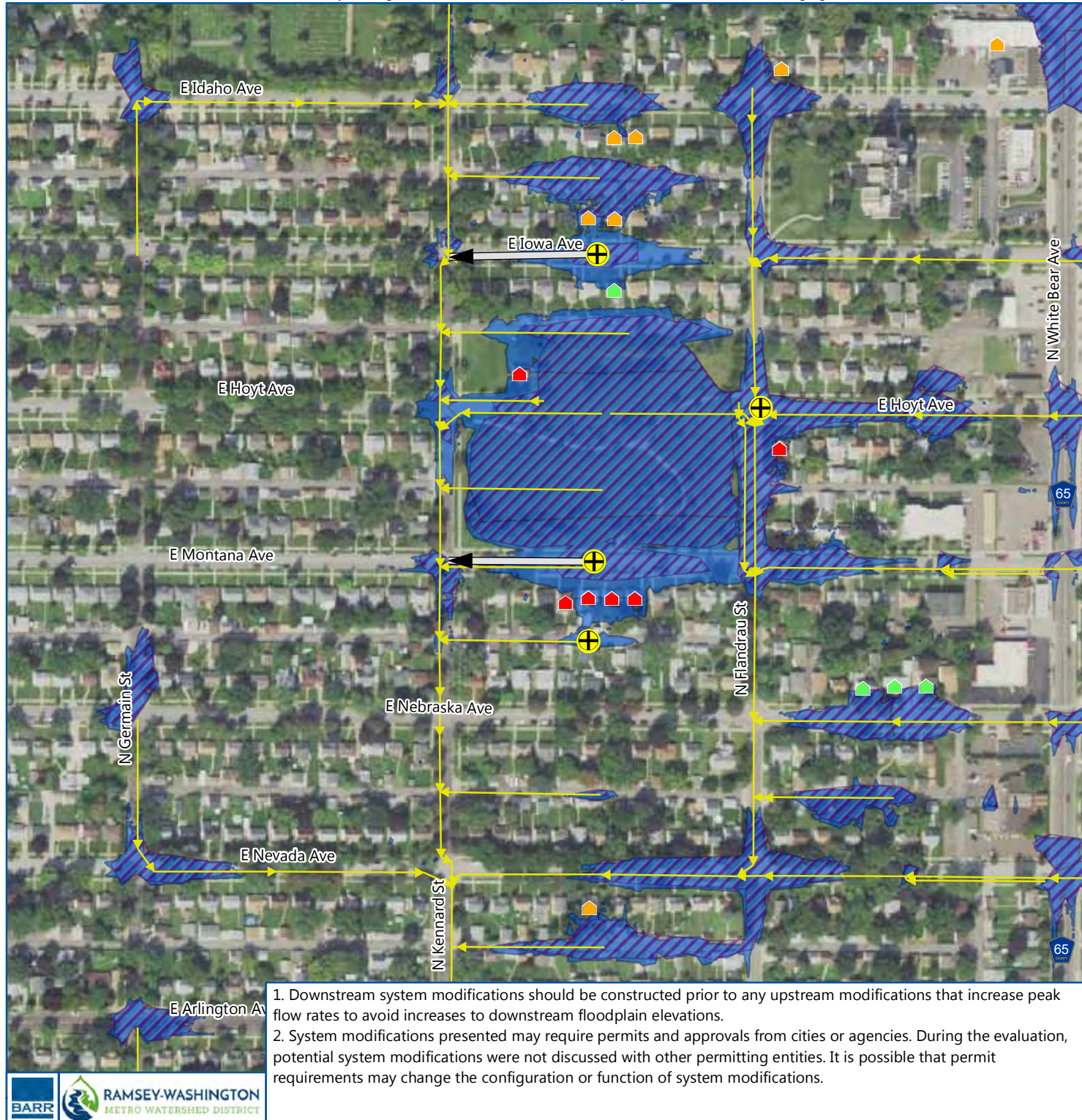


2021 Subproject 4D:  
Duluth St Recreation Center  
Clarence Townhouses

Phalen Chain of Lakes Flood Risk  
Reduction Study  
Ramsey-Washington Metro Watershed District

FIGURE 4D





2021 Subproject 4E:  
Hillcrest Knoll Park

Phalen Chain of Lakes Flood Risk  
Reduction Study  
Ramsey-Washington Metro Watershed District

FIGURE 4E

#### **4F AMES LAKE**

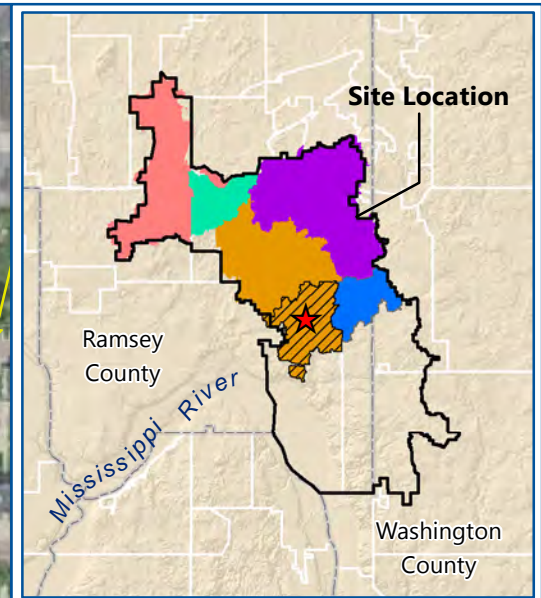
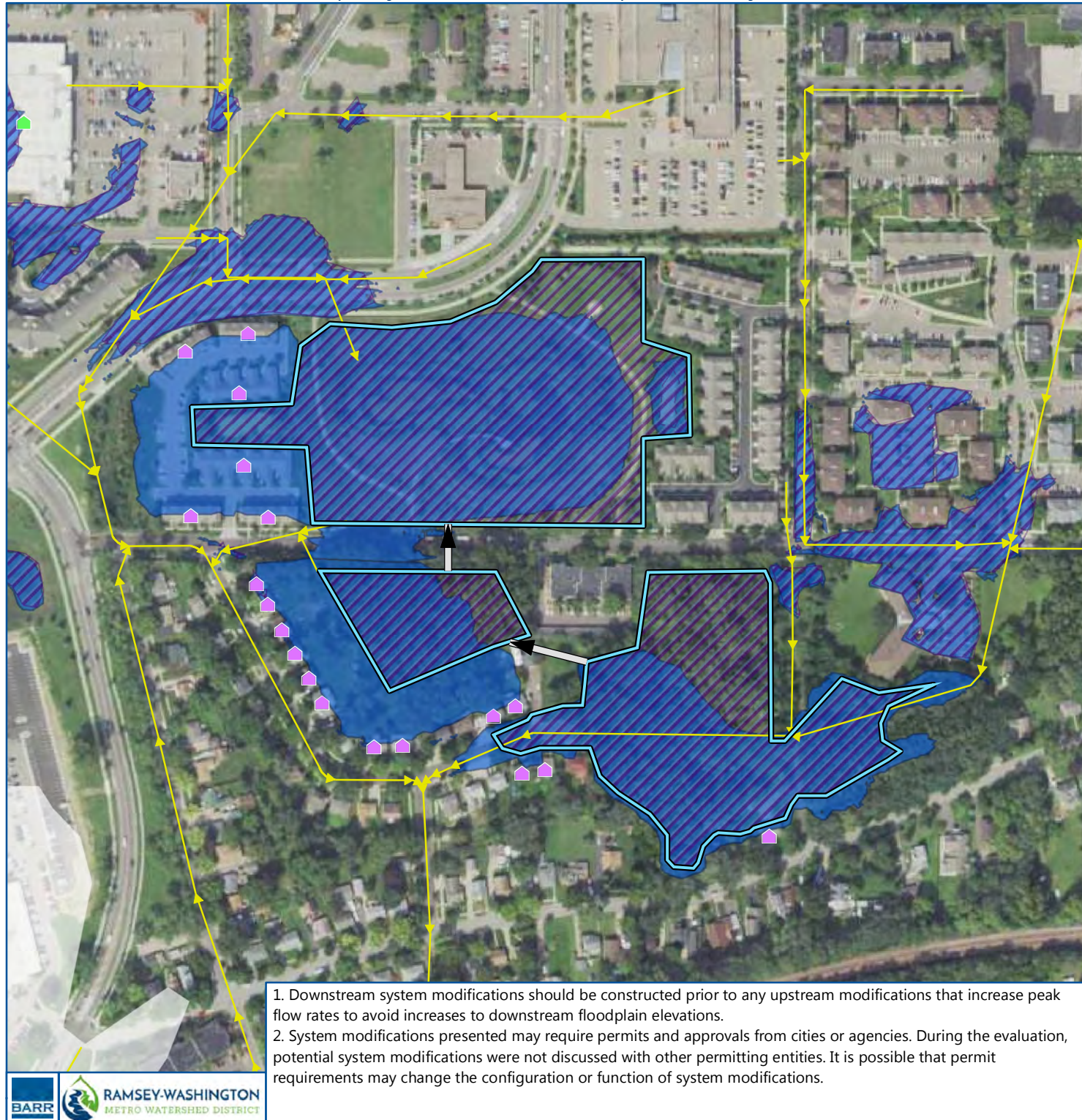
Ames Lake and the surrounding development are located within a topographic depression. Flooding in this area is a combination of local runoff and overland flow from the upstream watershed. Potential system modifications evaluated to mitigate flood risk in this area include rerouting upstream storm sewer, adding new detention ponds, expanding existing ponds (4F-1), or alternatively, adding a bypass tunnel redirecting stormwater away from Ames Lake and more directly to the Beltline storm sewer (4F-2).

Potential modifications involving significantly expanding storage in and near Ames Lake are listed below and shown in Figure 4F-1:

- Increasing the culvert capacity south of Magnolia Avenue by adding a 36-inch circular concrete pipe, or equivalent
- Increasing the culvert capacity at Magnolia Avenue
- Constructing a new detention pond south of Magnolia Avenue
- Increasing storage/add a new detention pond southeast of Mechanic Avenue and north of Ames Avenue
- Increasing flood storage in Ames Lake Park

Potential modifications involving the creation of a bypass tunnel redirecting stormwater away from Ames Lake and more directly to the Beltline storm sewer are shown in Figure 4F-2. The option shown in Figure 4F-2 shows a tunnel alignment that would follow East Ames Avenue westward, then Johnson Parkway southward, and then E Case Avenue eastward until ultimately turning south. At that point, it can flow into the Beltline storm sewer downstream, where there is more capacity. The starting point of this alignment is important—it serves to capture flows to the area before they overflow north near the homes along Mechanic Avenue and into Ames Lake. However, the decision on the alignment itself would greatly depend on input from the City of St. Paul, the railroad authority, and other stakeholders.





■ No Longer Considered to be in the 100-year Floodplain

### Potentially Flood-Prone Structures:

■ Reliant on System Modification

### Design Elements:

→ Existing Storm Sewer Pipe

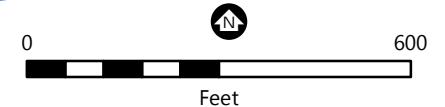
→ Proposed Pipe

□ Detention Pond

### 100-Year Floodplain:

▨ Proposed Inundation

▨ Existing Atlas 14 Inundation

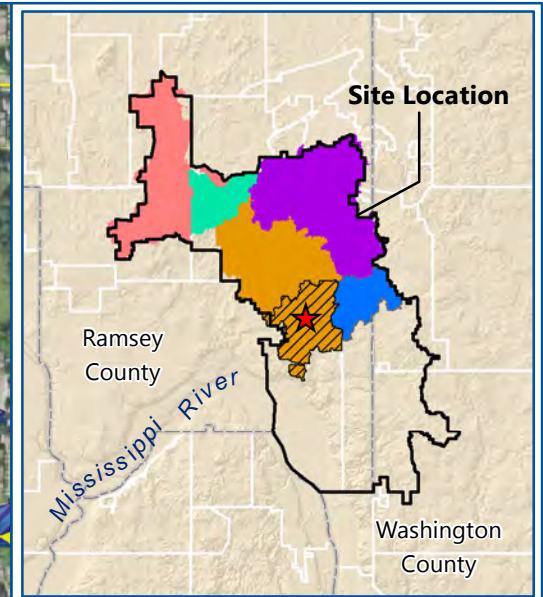


2021 Subproject 4F-1:  
Ames Lake Area Storage Expansion

Phalen Chain of Lakes Flood Risk  
Reduction Study- Ames Lake Area  
Ramsey-Washington Metro Watershed District

FIGURE 4F-1





■ No Longer Considered to be in the 100-year Floodplain

### Potentially Flood-Prone Structures:

■ Reliant on Site-Scale Solutions (District)

■ Reliant on System Modification

### Design Elements:

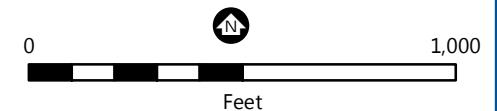
→ Existing Storm Sewer Pipe

→ Proposed Tunnel / Pipe

### 100-Year Floodplain:

→ Proposed Inundation

→ Existing Atlas 14 Inundation



2021 Subproject 4F-2:  
Ames Lake Bypass Tunnel

Phalen Chain of Lakes Flood Risk  
Reduction Study- Ames Lake Area  
Ramsey-Washington Metro Watershed District

FIGURE 4F-2



**To:** RWMWD Board of Managers  
**From:** Erin Anderson Wenz, Lulu Fang, Kim Baker, and Parker Brown (Barr Engineering Co.)  
**Subject:** Update on Kohlman Creek Subwatershed Flood Risk Reduction Study and Ames Lake Area Flood Risk Reduction Study (Part 2)  
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## 2.5 Sequencing

The interdependencies of these proposed system modifications are an important consideration as upstream changes affect downstream areas. Project sequencing refers to the order that system modifications should be constructed to prevent adverse downstream impacts. Tables 1 through 3 include planning-level considerations related to project sequencing to avoid increases to downstream water levels.

**Table 1: Sequencing Considerations for System Modifications in the Willow Creek Subwatershed (Phase 3)**

Parcel ID	Address	Lowest Adjacent Grade	Existing 100-year Water Surface Elevation	System Modification to Reduce Flood Risk	Prerequisite System Modifications
123-353022320025	3200 ORCHARD CT, White Bear Lake, 55110	913.4	914.2	Site-Scale Solution (District)	None
123-353022320032	1790 ORCHARD LN, White Bear Lake, 55110	913.6	914.2	Site-Scale Solution (District)	None

**Table 2: Sequencing Considerations for System Modifications in the Kohlman Creek Subwatershed (Phase 3)**

Parcel ID	Address	Lowest Adjacent Grade	Existing 100-year Water Surface Elevation	System Modification to Reduce Flood Risk	Prerequisite System Modifications
123-112922410013	2220 Hwy 36 E (Castle Ave), North St. Paul, 55109	939.2	941.3	Site Scale Solution (District), and 3C-1 or 3C-2	None
123-112922410014	2204 Hwy 36 E (Castle Ave), North St. Paul, 55109	939.6	941.3	3C-1, or Site Scale Solution (District) and 3C-2	None
123-112922440015	2157 SOUTH AVE, North Saint Paul, 55109	940.7	941.3	3C-1 or 3C-2	None
123-112922440014	2159 SOUTH AVE, North Saint Paul, 55109	939.3	941.3	3C-1, or Site-Scale Solution (District) and 3C-2	None
123-112922440014	2159 SOUTH AVE, North Saint Paul, 55109	939.5	941.3	3C-1, or Site-Scale Solution (District) and 3C-2	None
123-112922430108	2187 6TH ST, North Saint Paul, 55109	940.3	941.3	3C-1 or 3C-2	None
123-112922440029	2172 6TH ST, North Saint Paul, 55109	940.3	941.3	3C-1 or 3C-2	None
123-112922430105	2205 6TH ST, North Saint Paul, 55109	940.4	941.3	3C-1 or 3C-2	None
123-112922120078	2133 13TH AVE, North Saint Paul, 55109	937.0	937.2	3D	3C-1 or 3C-2 <sup>1</sup>
123-112922120079	2127 13TH AVE, North Saint Paul, 55109	934.1	937.2	3D	3C-1 or 3C-2 <sup>1</sup>
123-112922120100	2119 13TH AVE, North Saint Paul, 55109	933.6	937.2	3D	3C-1 or 3C-2 <sup>1</sup>
123-112922120077	2138 14TH AVE, North Saint Paul, 55109	936.3	937.2	3D	3C-1 or 3C-2 <sup>1</sup>
123-112922120076	2132 14TH AVE, North Saint Paul, 55109	937.1	937.2	3D	3C-1 or 3C-2 <sup>1</sup>
123-112922120111	2570 SEANS WAY, North Saint Paul, 55109	932.6	937.2	3D	3C-1 or 3C-2 <sup>1</sup>
123-112922120102	2576 SEANS WAY, North Saint Paul, 55109	935.5	937.2	3D	3C-1 or 3C-2 <sup>1</sup>
123-112922210053	2600 WHITE BEAR AVE, Maplewood, 55109	919.7	922.6	Site-Scale Solution (District)	None
123-112922210025	2599 ARIEL ST, Maplewood, 55109	922.2	922.6	Site-Scale Solution (District)	None
123-112922220022	1876 County Road C E, Maplewood, 55109	911.6	913.6	3F	None
123-112922220017	1862 County Road C E, Maplewood, 55109	911.9	913.6	3F	None
123-112922230007	1807 GERVAIS CT, Maplewood, 55109	912.9	913.6	3F	None
123-112922230006	1801 GERVAIS AVE, Maplewood, 55109	913.0	913.6	3F	None
123-112922230006	1801 GERVAIS AVE, Maplewood, 55109	913.3	913.6	3F	None
123-112922230006	1801 GERVAIS AVE, Maplewood, 55109	912.0	913.6	3F	None
123-042922410013	2806 MAPLEWOOD DR, Maplewood, 55109	867.8	870.4	Site-Scale Solution (District)	None



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**Table 3: Sequencing Considerations for System Modifications in the Phalen Chain of Lakes Subwatershed (Phase 4)**

Parcel ID	District or Site-Scale	Address	Lowest Adjacent Grade	Existing 100-Year Water Surface Elevation	System Modification to Reduce Flood Risk	Prerequisite System Modifications <sup>1</sup>
222922330180-842	Local	1205 Clarence St, St. Paul 55106	858.8	860	Site-Scale Solution (City)	None
222922330175-792	Local	1221 Clarence St, St. Paul 55106	858.6	860	Site-Scale Solution (City)	None
	Local	1223 Clarence St, St. Paul 55106	858.6	860	Site-Scale Solution (City)	None
	Local	1225 Clarence St, St. Paul 55106	858.6	860	Site-Scale Solution (City)	None
	Local	1227 Clarence St, St. Paul 55106	858.6	860	Site-Scale Solution (City)	None
	Local	1229 Clarence St, St. Paul 55106	858.5	860	Site-Scale Solution (City)	None
222922330170-742	Local	1235 Clarence St, St. Paul 55106	858.1	860	Site-Scale Solution (City)	None
	Local	1237 Clarence St, St. Paul 55106	858.0	860	Site-Scale Solution (City)	None
	Local	1239 Clarence St, St. Paul 55106	858.0	860	Site-Scale Solution (City)	None
	Local	1241 Clarence St, St. Paul 55106	858.0	860	Site-Scale Solution (City)	None
	Local	1243 Clarence St, St. Paul 55106	857.9	860	Site-Scale Solution (City)	None
	Local	1251 Clarence St, St. Paul 55106	858.6	860	Site-Scale Solution (City)	None
222922330167-69 2	Local	1253 Clarence St, St. Paul 55106	858.6	860	Site-Scale Solution (City)	None
	Local	1255 Clarence St, St. Paul 55106	858.6	860	Site-Scale Solution (City)	None
222922330104	Local	1305 Maryland Ave, St. Paul 55106	857.7	860	Site-Scale Solution (City)	None
62922120005	District	1275 Magnolia Ave, Saint Paul 55106	859.4	860.7	Site-Scale Solution (District)	None
222922420113	Local	1577 Clear Ave, St. Paul 55106	916.9	918.2	Site-Scale Solution (City)	
222922420114	Local	1583 Clear Ave, St. Paul 55106	916.4	918.2	Site-Scale Solution (City)	
222922420115	Local	1589 Clear Ave, St. Paul 55106	915.9	918.2	Site-Scale Solution (City)	
222922420076	Local	1592 Sherwood Ave, St. Paul 55106	923.2	923.3	Site-Scale Solution (City)	
272922120039	Local	1604 Maryland Ave E, Saint Paul 55106	893.8	894.1	Site-Scale Solution (City)	
272922140130	Local	1688 Lacrosse St, St. Paul 55106	909.7	909.8	Site-Scale Solution (City)	
222922140158	Local	1688 Nevada Ave, St. Paul 55106	929.9	929.9	Site-Scale Solution (City)	
222922420139	Local	1655 Cottage Ave, St. Paul 55106	921.3	923.2	Site-Scale Solution (City)	
222922410125	Local	1659 Cottage Ave, St. Paul 55106	922.3	923.2	Site-Scale Solution (City)	
222922110135	District	1671 Hoyt Ave, St. Paul 55106	927.6	928	Site-Scale Solution (District)	None
222922140111	District	1680 Montana Ave, St. Paul 55106	927.5	928	Site-Scale Solution (District)	None
222922140110	District	1684 Montana Ave, St. Paul 55106	927.5	928	Site-Scale Solution (District)	None
222922140109	District	1690 Montana Ave, St. Paul 55106	927.7	928	Site-Scale Solution (District)	None
222922140108	District	1696 Montana Ave, St. Paul 55106	927.4	928	Site-Scale Solution (District)	None
222922140011	District	1720 Hoyt Ave, St. Paul 55106	928.0	928	Site-Scale Solution (District)	None

<sup>2</sup> 3C-1 or 3C-2 are optional projects in terms of protecting this structure. 3C-1 or 3C-2 implementation lessens the extent of option 4B or site-scale options that would be otherwise necessary.

To: RWMWD Board of Managers  
 From: Erin Anderson Wenz, Lulu Fang, Kim Baker, and Parker Brown (Barr Engineering Co.)  
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**Table 3: Sequencing Considerations for System Modifications in the Phalen Chain of Lakes Subwatershed (Phase 4) *continued***

Parcel ID	District or Site-Scale	Address	Lowest Adjacent Grade	Existing 100-Year Water Surface Elevation	System Modification to Reduce Flood Risk	Prerequisite System Modifications <sup>1</sup>
152922420007	District	1870 Maryknoll Ave, Maplewood 55109	901.9	903.4	4B	3C-1 or 3C-2 <sup>2</sup>
152922420032	District	1871 Maryknoll Ave, Maplewood 55109	903.0	903.4	4B	3C-1 or 3C-2 <sup>2</sup>
152922420031	District	1872 Prosperity Rd, Maplewood 55109	901.9	903.4	4B	3C-1 or 3C-2 <sup>2</sup>
152922420002	District	1638 Frost Ave, Maplewood 55109	901.5	903.4	4B	3C-1 or 3C-2 <sup>2</sup>
152922420006	District	1880 Maryknoll Ave, Maplewood 55109	901.6	903.4	4B	3C-1 or 3C-2 <sup>2</sup>
152922420033	District	1885 Maryknoll Ave, Maplewood 55109	903.4	903.4	4B	3C-1 or 3C-2 <sup>2</sup>
152922420005	District	1894 Maryknoll Ave, Maplewood 55109	902.7	903.4	4B	3C-1 or 3C-2 <sup>2</sup>
152922420004	District	1904 Maryknoll Ave, Maplewood 55109	901.8	903.4	4B	3C-1 or 3C-2 <sup>2</sup>
152922140032	District	1936 Kennard St, Maplewood 55109	903.3	904.1	Site-Scale Solution (District)	3C-1 or 3C-2 <sup>2</sup>
152922140031	District	1944 Kennard St, Maplewood 55109	904.1	904.1	4B (not necessary with 3C-1 or 3C-2)	3C-1 or 3C-2 <sup>2</sup>
152922140030	District	1948 Kennard St, Maplewood 55109	903.9	904.1	4B (not necessary with 3C-1 or 3C-2)	3C-1 or 3C-2 <sup>2</sup>
162922310010	District	1858 East Shore Dr, Maplewood 55109	863.0	863	4C	None
162922310028	District	1880 East Shore Dr, Maplewood 55109 (west bldg)	862.2	863.2	4C	None
162922310028	District	1880 East Shore Dr, Maplewood 55109 (east bldg)	862.2	863.2	4C	None
82922110012	District	737 Carla Ln, Little Canada 55109	860.7	861.8	Site-Scale Solution (District)	None
272922220157	District	1340 Phalen Blvd, St. Paul 55106	856.3	857.9	4F-1 or 4F-2	None
272922220145	District	1342 Phalen Blvd, St. Paul 55106	855.9	857.9	4F-1 or 4F-2	None
272922220150	District	1343 Magnolia Ave, St. Paul 55106	856.7	857.9	4F-1 or 4F-2	None
272922220140	District	1350 Phalen Blvd, St. Paul 55106	856.6	857.9	4F-1 or 4F-2	None
272922220134	District	1355 Magnolia Ave, St. Paul 55106	857.2	857.9	4F-1 or 4F-2	None
272922220129	District	1360 Phalen Blvd, St. Paul 55106	857.1	857.9	4F-1 or 4F-2	None
272922230014	District	1381 Mechanic Ave, St. Paul 55106	854.9	858.4	4F-1 or 4F-2	None
272922230013	District	1389 Mechanic Ave, St. Paul 55106	855.6	858.4	4F-1 or 4F-2	None
272922230012	District	1393 Mechanic Ave, St. Paul 55106	856.5	858.4	4F-1 or 4F-2	None
272922230011	District	1397 Mechanic Ave, St. Paul 55106	856.9	858.4	4F-1 or 4F-2	None
272922230010	District	1401 Mechanic Ave E, St. Paul 55106	856.5	858.4	4F-1 or 4F-2	None
272922230009	District	1405 Mechanic Ave, St. Paul 55106	856.8	858.4	4F-1 or 4F-2	None
272922230007	District	1415 Mechanic Ave, St. Paul 55106	857.6	858.4	4F-1 or 4F-2	None
272922230006	District	1421 Mechanic Ave, St. Paul 55106	858.3	858.4	4F-1 or 4F-2	None
272922230003	District	1433 Mechanic Ave, St. Paul 55106	856.8	858.4	4F-1 or 4F-2	None
272922230002	District	1437 Mechanic Ave, St. Paul 55106	857.6	858.4	4F-1 or 4F-2	None
272922230042	District	1438 Mechanic Ave, St. Paul 55106	863.0	863.5	4F-1 or 4F-2	None
272922240061	District	1442 Mechanic Ave, St. Paul 55106	862.4	863.5	4F-1 or 4F-2	None
272922240056	District	1465 Ames Ave, St. Paul 55106	859.5	863.5	4F-1 or 4F-2	None

<sup>2</sup> 3C-1 or 3C-2 are optional projects in terms of protecting this structure. 3C-1 or 3C-2 implementation lessens the extent of option 4B or site-scale options that would be otherwise necessary.

## **3.0 Next Steps**

### **3.1 Flood Frequency Analysis (2-, 10-, 25-, 50-, 100-year)**

For structures deemed to be at risk of flooding during the 100-year event, Barr staff are currently conducting additional modeling to determine what level of protection (50-year, 25-year, etc.) is achievable under current conditions, as well as the proposed future conditions described in this technical memorandum. It may be appropriate to prioritize those projects that currently are at risk of flooding during more frequent events (e.g., the 10-year event) than those at risk during less frequent events (e.g., 50-year event). Discussion on this concept will occur at the January meeting as we discuss the costs and benefits of the projects and further prioritize the steps ahead.

### **3.2 Schedule**

In December, Barr staff will prepare planning-level cost estimates for each of the options presented in this technical memorandum, as well as a description of the benefits expected from each option. Benefits will include structures removed from the 100-year floodplain completely as well as areas where structures have an increased level of protection over current conditions (moving from a 25-year flood level of protection to a 50-year level of protection, for example). These results will be shared with the Board of Managers at their January Board meeting.



**To:** RWMWD Board of Managers  
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## **APPENDIX**

### **Excerpt from “Identification and Prioritization of Potentially Flood-Prone Structures” (Barr Engineering, September 2018)**

### 3.0 Prioritizing Flood-Risk Areas

A high-level evaluation of each potential flood-risk area (see Section 2.0) was performed to determine if flooding was caused by:

- a) proximity to District managed waterbodies or facilities (e.g., high water level of a District-managed waterbody, capacity through a District-managed culvert, etc.), or
- b) local flooding not related to District managed waterbodies or facilities (e.g., high water level of municipal pond, capacity through municipal storm sewer infrastructure, etc.).

These two types of flood-risk areas are shown as *Potential District Flood-Risk Areas* and *Potential Local Flood-Risk Areas* in the figures in Appendix A.

Flood-risk areas near District managed waterbodies or facilities were then further examined to determine:

- The number of habitable structures that would potentially be affected by flooding;
- The potential for roadway flooding during an event; and
- The potential for implementing flood-mitigation projects that could simultaneously improve water quality.

This information was used to prioritize potentially flood-prone areas for further evaluation of mitigation options. The list of criteria considered in the analysis are listed below:

- (1) **Flood-prone area located near a District-managed water body:** The District is responsible for managing the following water resources. Flood-risk areas caused by high water levels in these District managed water resources are assigned high priority.

#### Lakes

Battle Creek Lake	Beaver Lake	Bennett Lake
Carver Lake	Eagle Lake	Emily Lake
Gervais Lake	Keller Lake	Kohlman Lake
Lake Owasso	Lake Phalen	Round Lake (Maplewood)
Round Lake (Little Canada)	Shoreview Lake	Snail Lake
Tanners Lake	Twin Lake	Wabasso Lake
Wakefield Lake	Willow Lake	

#### Streams

Battle Creek	Fish Creek	Gervais Creek
Kohlman Creek	Willow Creek	Snake Creek

- (2) **Flood-prone area adjacent to a District-managed facility:** The District responsible for managing a number of storm water facilities, many of which are not located on a District-managed water body. Each of these facilities are identified in the District's plan. Flood-risk areas

caused by or impacted by District-managed facilities are assigned high priority. Flood issues related to *Local Flood-Risk Areas* are considered to be the responsibility of the respective municipality. However, the district may assist the responsible local governmental unit with addressing flood-risk in these areas.

- (3) **Number of structures impacted:** As part of the District's high-level vulnerability assessment, 100-year inundation maps were developed using the validated XP-SWMM models (discussed in Section 2.0). Structures were identified as potentially *impacted* if the structure outline intersected the 100-year floodplain. Note: because in the majority of cases, low-entry elevations for habitable structures have not been surveyed, the number of impacted structures identified in each flood-risk area should be considered an estimate of the number of structures potentially impacted by peak 100-year flood inundation. Flood-risk areas with a large number of identified impacted structures are assigned high priority.
- (4) **Flood-prone area upstream of an impaired or at-risk water body:** A waterbody that does not meet MPCA water quality standards is considered by RWMWD to be impaired and is included on the MPCA's impaired waters list. RWMWD also classifies several waterbodies "at-risk," based on several criteria listed in the District's plan. Flood-risk reduction projects may inherently provide or be modified to provide water quality benefits to downstream waterbodies. For this reason, flood-risk areas tributary to impaired or at-risk waterbodies were assigned high priority.
- (5) **Street flooding:** Cities and local roadway authorities frequently design storm water systems to convey runoff from relatively small events (5- or 10-year frequency). Because road inundation during larger rainfall events may prevent residents and emergency vehicles from accessing critical facilities (hospitals, grocery stores, etc.), the District requires that storm water storage areas be designed to prevent roadway flooding during a 100-year event. Areas where stormwater pooling occurs on roads adjacent to flood-prone areas were considered a priority.

District flood-risk areas were prioritized by assigning point values to the five categories described above. The points assigned to each category are summarized in Table 1. Although both Local flood-risk areas and District flood-risk areas are shown the figures included in Appendix A, only District flood-risk areas were evaluated and prioritized in Table 1. It is important to note that the models developed do not simulate all of the local storm sewer systems within the watershed. As a result, each City may identify separate, localized flooding areas that are not shown on the attached figures. The District should continue to work cooperatively with the cities to address localized flooding concerns and manage inflows to District water bodies.



### Table 1. Flood-Risk Reduction Area Prioritization

Points Used for Prioritization Ranking																		
Subwatershed	Drainage Area	City	Location Description	Points	Rank	Previous Rank (Uncalibrated)	Planning Level Opinion of Probable Cost	Issue Caused by Municipal Storm Sewer System	2	1	10	5	1	2				
									Impacted Structures	Potentially Impacted Structures	District Managed Lake or Stream	Name of District Managed Lake or Stream	District Managed Facility	Name of District Facility	Tributary to Impaired Water body	Impaired Water body	Inundation Pools on Street (flowing water ok)	Name of Road that Overtops
Gervais Creek	CD16-05b CD16-05d CD16-05e CD16-05i CD16-05j CD16-05k CD16-05l	Little Canada	Owasso Basin	255	1	1	\$14,922,000	No	124	NA	No	--	Yes	Owasso Basin	Stable	--	Yes	Ryan Drive
St. Paul Beltline	BEL-NH043 BEL-NM021 BEL-NM022 BEL-NM025 Magnolia Phase II	Saint Paul	Ames Lake and surrounding area	45	2	3	\$8,208,000	No	19	NA	No	--	Yes	Beltline	Stable	--	Yes	E Magnolia Ave
Kohlman Creek	SB18-18 SB18-19 SB18-21	North Saint Paul	N of 13th Ave E	34	3	4	\$3,403,000	No	8	NA	Yes	Kohlman Creek	Yes	viromental Learning	Impaired	Kohlman Creek	Yes	13th Ave E
Tanners Lake	TL-40	Maplewood	Tanners Lake	30	4	8	\$9,833,000	No	10	NA	Yes	--	No	--	Stable	--	No	--
Kohlman Creek	SB18-07 SB18-08	North Saint Paul	N St. Paul Urban Ecology Center	30	4	5	\$2,828,000	No	7	NA	Yes	Kohlman Creek	Yes	Urban Ecology Center	Impaired	Kohlman Creek	No	--
Kohlman Creek	SB18-10	Maplewood	S of County Road CE	23	6	13	\$32,435,000	No	6	NA	Yes	Kohlman Creek	No	--	Impaired	Kohlman Creek	No	--
St. Paul Beltline	BEL-19 BEL-NH038 BEL-NH038b BEL-NH039 BEL-NH104 BEL-NH109 Pond2Phal Rose W	Saint Paul	Downstream of Phalen	21	7	6	\$23,250,000	No	8	NA	No	--	Yes	Beltline	Stable	--	No	--
Kohlman Creek	SB18-14B	Maplewood	Markham Pond	20	8	NA	\$20,077,000	No	2	NA	Yes	Kohlman Creek	Yes	Markham Pond	Impaired	Kohlman Creek	No	--
Kohlman Lake	KOHL-01C KOHL-KBA KOHL-KBB KOHL-KBC KOHL-KBD		E of Maplewood Dr	20	8	8	\$10,246,000	No	2	NA	Yes	Kohlman Creek	Yes	Kohlman Basin	Impaired	Kohlman Lake	No	--
Kohlman Creek	SB18-09	Maplewood	E of White Bear Ave N	20	8	8	\$3,955,000	No	2	NA	Yes	Kohlman Creek	Yes	ite Bear Avenue Pipe	Impaired	Kohlman Creek	No	--
Kohlman Creek	SB18-17A	Maplewood	SE of Hazelwood St and Beam Ave	20	8	7	\$3,145,000	No	1	NA	Yes	Kohlman Creek	Yes	Kohlman Basin	Impaired	Kohlman Creek	Yes	Hazelwood St
Willow Creek	NB18-11 NB18-12	White Bear Lake	N of Buerkle Rd	19	12	2	\$16,039,000	No	7	NA	No	--	Yes	Willow Creek Pipeline	Stable	--	No	--
Willow Creek	NB18-17	Vadnais Heights	N of HW61 and Buerkle Rd	19	12	NA	\$11,883,000	No	1	NA	Yes	Willow Creek	Yes	Willow Creek Pipeline	Stable	--	Yes	Highway 61
St. Paul Beltline	S-m273-g S-m291-g S-m44-g S-m520-g S-m71-g S-m80-g	Saint Paul	Hoyt Ave and surrounding area	19	12	13	\$1,426,000	No	7	NA	No	--	Yes	Ave flood control pro	Stable	--	No	--
Lake Phalen	PHAL-16	Maplewood	W of E Shore Dr (N of Lake Phalen)	18	15	19	\$7,506,000	No	4	NA	Yes	Phalen Chain	No	--	Stable	--	No	--
Gervais Lake	GERV-04 GERV-05a	Little Canada	Gervais Lake	18	15	8	\$2,805,000	No	4	NA	Yes	Gervais Lake	No	--	Stable	--	No	--
Carver Lake	CARV	Maplewood	Carver Lake	17	17	12	\$4,054,000	No	3	NA	Yes	--	No	--	At Risk	Carver Lake	No	--
Lake Owasso	LakeOwasso	Roseville	Lake Owasso	17	17	15	\$1,488,000	No	3	NA	Yes	--	No	--	At Risk	Lake Owasso	No	--
Gervais Creek	CD16-19	Little Canada	Downstream of Gervais Mill Pond	16	19	15	\$1,873,000	No	3	NA	Yes	Gervais Creek	No	--	Stable	--	No	--
Battle Creek Lake	BC-39	Woodbury	Battle Creek Lake	15	20	17	\$218,000	No	1	NA	Yes	Battle Creek Lake	No	--	At Risk	Battle Creek Lake	Yes	Weir Drive
Tanners Lake	TL-25 TL-26	Maplewood	S of Minnehaha Ave and Century Ave	13	21	NA	\$2,197,000	No	3	NA	No	--	Yes	Tanners Lake	Stable	--	Yes	Century Ave N
Battle Creek Lake	BC-36 BC-36A	Woodbury	Harvey Vogel Manufacturing Co	8	22	NA	\$6,039,000	No	1	NA	No	--	Yes	el Manufacturing Pipe	At Risk	Battle Creek Lake	No	--
Carver Lake	CARV-79	Woodbury	Carver Ravine Water Quality Pond	8	22	20	\$289,000	No	1	NA	No	--	Yes	Ravine Water Quality	At Risk	Carver Lake	No	--
St. Paul Beltline	BEL-FLNHYT BEL-NM003	Saint Paul	SW of Herbert St and Maryland Ave E	7	24	21	\$139,000	No	1	NA	No	--	Yes	Beltline	Stable	--	No	--
Battle Creek	C-19A C-19B C-19C C-19D C-19E C-19F C-19G C-19H C-19I C-19J	Woodbury	Downstream of Battle Creek Lake	--	--	17	--	No	0	NA	Yes	Battle Creek	No	--	Impaired	Battle Creek	No	--

\* \* \* \* \*

# Administrator's Report

\* \* \* \* \*

## MEMO

**TO:** Board of Managers and Staff  
**FROM:** Tina Carstens, Administrator  
**SUBJECT:** November Administrator's Report  
**DATE:** December 2, 2021

### A. Meetings Attended

Wednesday, November 3	6:30 PM	Board Meeting
Tuesday, November 9	ALL DAY	MAWA/SWCD Joint Meeting
Wednesday, November 10	ALL DAY	MAWA/SWCD Joint Meeting
Monday, November 15	2:00 PM	Metro INET Board Meeting
Wednesday, November 17	8:30 AM	SWWD Street Sweeping Meeting
	10:00 AM	MN Stormwater Research Council Presentation
	3:30 PM	Metro WBIF BWSR Meeting
Thursday, November 18	5:30 PM	Watershed Awards Night
Monday, November 22	9:00 AM	Climate Resilience Planning Grants Meeting
Wednesday, November 24	9:00 AM	MAWA Executive Committee
Tuesday, November 30	8:00 AM	MAWD Board Meeting
	1:00 PM	MN Stormwater Manual Meeting
Wednesday, December 1	ALL DAY	MAWD Annual Meeting Workshop
Thursday, December 2	ALL DAY	MAWD Annual Meeting
Friday, December 3	ALL DAY	MAWD Annual Meeting

### B. Upcoming Meetings and Dates

District Holiday Party	TBD
January Board Meeting	January 5, 2022
February Board Meeting	February 2, 2022
March Board Meeting	March 2, 2022
April Board Meeting	April 6, 2022
May Board Meeting	May 4, 2022



### **C. Ongoing Administrator Updates**

**Ramsey County Permitting** – Ramsey County staff are continuing to work internally to develop a “Parks Permit” similar to the Public Works Right of Way Permit for access to their sites. It is anticipated that the permit would be completed in early 2022.

**PFCs and Alum Use** – Barr and district staff are talking about these two topics and how to bring information forward for the board. We are planning to have information to the board in an early 2022 board meeting.

**West Vadnais Lake Discussion** – the Vadnais Lake Area Watershed Management Organization (VLAWMO) administrator is not available to attend the December meeting but has indicated that the January meeting works for him.

**Victoria Shores/Reiling Development** – The Roseville city council will see the EAW comments and staff's response to comments at their Monday, December 6<sup>th</sup> meeting. I will provide an update at the board meeting on Wednesday evening.

### **D. Final Public Art Policy**

Attached is the final Public Art Policy as approved by the board at the November meeting. This policy will be implemented by staff and will also be placed on the District website for information.



# **PUBLIC ART POLICY**

Adopted: November 3, 2021

## **A. Mission**

To further communicate and educate through public art and artful design, the overall district mission of protecting, managing, and improving our natural resources.

## **B. Goals**

Public art funded through the district, whether through our projects or our programs, shall further one or more of the goals below:

1. Making invisible water systems visible.
2. Creating features that bring attention to water features in a public space.
3. Creating features that inspire the implementation of other water projects.
4. Creating an aesthetic interface between the natural and built environments.
5. Creating innovative best management water practices.

## **C. Process for Art on District Projects**

The district shall meet one or more of the above goals when planning public art on a district projects. The board of managers shall approve public art components as part of the project approval process.

## **D. Process for Community Art Grants**

- Community applicants for public art installations shall come through the Stewardship Grant Program and support a water or natural resources project and not be a standalone art project.
- Applications will be accepted year-round.
- Public art projects are eligible for 50% funding up to \$15,000 per application.
- Additional funding may be requested by the applicant and approved by the board of managers based on location in the watershed, audience served, and the type of project proposed.
- Projects must be approved by the board of managers before starting work.
- Projects are funded through reimbursement upon completion and final inspection. An advance on the approved project budget may be considered if shown to be required and only upon approval of a detailed budget, project renderings, materials list, dimensions, production process, and schedule.
- Materials and labor are eligible for reimbursement.
- In-kind services are not eligible for reimbursement and will not be considered for matching contributions.

\* \* \* \* \*

# Project and Program Status Reports

\* \* \* \* \*



## Memorandum

**To:** Board of Managers and Staff  
**From:** Tina Carstens and Brad Lindaman  
**Subject:** Project and Program Status Report – December 2021  
**Date:** December 2, 2021

### Project feasibility studies

#### **Interim emergency response planning for district areas at risk of flooding (Barr project manager: Gareth Becker; RWMWD project manager: Tina Carstens)**

*The purpose of this project is to provide information and guidance to cities throughout the district about how to protect low-lying habitable structures from flooding during the 100-year storm event. These emergency response plans address areas for which there is 1) not currently a feasible project that has been identified to protect structures or 2) a project that cannot be implemented in the near future due to logistical and/or budgeting reasons. This effort is an outcome of the Beltline resiliency study.*

The fifteen properties that were added to the “to-be-surveyed” group (and consented) have been surveyed—before any snow interference! In December, we are processing the new scan/survey data and regenerating maps of structures deemed to be at risk of flooding by comparing newly surveyed low elevations against the updated 100-year flood inundation extent generated after model updates are completed. We continue to develop emergency response plans for the roughly 50 individual sites shown to have low entry elevations below the 100-year flood elevation.

#### **Kohlman Creek flood risk reduction feasibility study (Barr project manager: Erin Anderson Wenz; RWMWD project manager: Tina Carstens)**

*The purpose of this study is to evaluate the benefit-cost relationships of infrastructure changes throughout the Kohlman Creek subwatershed by reviewing potential pipe alignments, land acquisition costs, utility conflicts, permitting issues, and related design as well as construction and long-term maintenance costs associated with each alternative that achieves the project objective of removing habitable structures from the 100-year floodplain in this area. This study is a follow-up step to the Beltline resiliency study.*

An update on this project will be provided at the December board meeting. For review in advance of the meeting, background materials are provided as a technical memorandum in the December board packet.

## Monitoring water quality/project monitoring

### **Special project best management practice (BMP) monitoring (Barr project manager: Katie Turpin-Nagel; RWMWD project manager: Paige Ahlborg)**

*The objective is to monitor specific water quality BMPs that the RWMWD has implemented, particularly those that include filtration media such as iron-enhanced sand, spent lime, or CC17 crushed limestone aggregate, and/or which leverage continuous monitoring and adaptive control (CMAC) technology.*

The Willow Pond CMAC spent lime filter is operational and will be ready for monitoring starting next spring. Barr met on site with the RWMWD to winterize the system and verify that it is functioning as intended, including being remotely connected to the system's modem. Barr and the RWMWD also met virtually to discuss progress made this year and monitoring plans for next year.

## Research projects

### **Kohlman permeable weir test system (Barr project manager: Keith Pilgrim; RWMWD project manager: Bill Bartodziej)**

*The objective of this current investigation is to develop one or more conceptual designs that will fit within the footprint of the existing Kohlman Basin permeable weir that will allow for ongoing testing of the system's effectiveness at removing total suspended solids and phosphorus.*

During the most recent period, the level sensors continued to record water levels. However, few useable data have been collected due to little rain since installation. Level sensors will be removed prior to ice formation. Activity during this period included an initial analysis of the data.

### **Shallow lake aeration study (Barr project manager: Keith Pilgrim; RWMWD project manager: Bill Bartodziej)**

*The purpose of this study is to evaluate the potential effectiveness of aeration in shallow lakes by studying the effect of aeration in two smaller shallow systems (Markham Pond and Frog Pond) in detail during 2021 and 2022. This approach is being pursued as an alternative to whole-lake alum treatments.*

As described last month, an aerator has been installed for winter operation in Markham Pond with the goals of eliminating fish kills and establishing a sunfish population to eat carp eggs. This period, an analysis of data collected this year clearly showed internal phosphorus loading in Markham Pond during the summer with fluctuating and low oxygen conditions. These results indicate that this test site can be used in 2022 to evaluate the effectiveness of aeration to reduce internal loading in a shallow lake.

## Project operations

### **Keller channel Phalen outlet operations plans (Barr project manager: Brandon Barnes; RWMWD project manager: Dave Vlasin)**

*The purpose of this project is to develop an operation plan for the Keller Lake and Lake Phalen outlet structures. Operating the structures under certain conditions will help reduce upstream flood levels where homes exist in the floodplain. This is an implementation item from the Beltline resiliency study.*

RWMWD comments have been incorporated into the final operation plan. Barr is developing record drawings based on information submitted by the contractor. We anticipate completing the record drawings and submitting the final plan to the RWMWD next month. The plan describes conditions in which the outlet gates should be operated, routine maintenance activities, frequency of maintenance activities, and logs for documenting operation and maintenance activities.

## Capital Improvements

### **North Saint Paul Target Store Retrofits (Barr project manager: Katie Turpin-Nagel; RWMWD project manager: Paige Ahlborg)**

*The purpose of this project is to design, provide bid assistance for, and oversee construction of BMP retrofits.*

Construction began on July 12, 2021, at the North Saint Paul Target store and is now complete. The one-year plant warranty started on November 2, 2021. A site walk-through will be scheduled for fall of 2022 to determine whether plantings or trees need replacement. The final pay application is submitted with this month's board packet, along with a hold harmless agreement signed by the contractor.

This period, the contractor (Peterson Companies) submitted as-built elevations of the construction project. In addition, Barr completed a record drawing and submitted it to the RWMWD in early November.

### **East Saint Paul Target Store Retrofits (Barr project manager: Katie Turpin-Nagel/Leslie DellAngelo; RWMWD project manager: Paige Ahlborg)**

*The purpose of this project is to design, provide bid assistance for, and oversee construction of BMP retrofits.*

On November 15, the RWMWD's subcontractor (Sandstrom Land Management) relocated a tree from one of the tree trenches that was blocking a stop sign. The removed tree replaced another tree that had died in a different tree trench. Barr completed the one-year tree warranty review at the end of October. No additional trees needed replacement. The shrub and perennial warranty period ends in spring of next year.

This period, the contractor (Sunram Construction) submitted as-built information of the construction project, and Barr completed a record drawing. The final draft of the record drawing is awaiting internal review and will be submitted to the RWMWD in December.

### **Targeted retrofit projects (Barr project manager: Matt Kumka; RWMWD project manager: Paige Ahlborg)**

*The purpose of this project is to design, provide bid assistance for, and oversee construction of BMP retrofits on previously identified commercial, school, and faith-based properties throughout the district.*

Barr is currently conceptualizing BMPs, including rain gardens and permeable pavers, to present to site owners before prioritizing and recommending to the board. Sites being considered for 2022 construction via the Equity Initiative and/or in prior subwatershed feasibility studies include Conway Recreation Center, Nokomis Montessori South Campus, St. Pascal Regional Catholic School, and Pleasantview Park.



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Site surveying is complete, and preliminary design has begun. Preliminary concepts will be presented to property managers in the coming weeks. Development of final construction documents will begin after property owners approve concepts, and after the board approves the proposed projects. Property managers will be required to sign maintenance agreements with the RWMWD prior to putting the projects out to bid in February 2022.

**Keller channel weir and Phalen outlet resiliency modifications (Barr project manager: Greg Nelson; RWMWD project manager: Tina Carstens)**

*This project includes design, bid document development, bidding, permitting, and project procurement of modifications to the Keller channel structure and the Phalen outlet structure. The purpose is to implement a design that will allow the RWMWD to remotely adjust the weir heights on the Keller channel structure and the Phalen outlet structure in accordance with an approved operating plan. Operation of the structures under certain conditions will help reduce upstream flood levels where homes exist in the floodplain. This CIP is an implementation item from the Beltline resiliency study.*

This period, Barr worked on record drawings, which will be completed by the end of the year. The construction work is complete and final payment has been issued.

**Ryan Drive and Keller Parkway conveyance (Barr project manager: Sam Redinger; RWMWD project manager: Dave Vlasin)**

*The purpose of this project is to implement improved conveyance through Gervais Creek, as recommended by the Owasso Basin bypass feasibility study. This CIP is an implementation item from the study recommended in the Beltline resiliency study.*

Fitzgerald finished the new culvert installation and road raise at Ryan Drive, as well as the base course of bituminous pavement. The top wearing course of bituminous pavement will be installed in 2022 as planned. Remaining 2021 work at Ryan Drive includes site grading and restoration, ditch excavation and cleaning, fencing, and punch list items. Pay application 2 is included in this month's packet for board review and approval for payment.

**Twin Lake outlet (Barr project manager: Brandon Barnes; RWMWD project manager: Tina Carstens)**

*The purpose of this project is to design and construct an outlet system and develop an outlet operating plan in accordance with feasibility study recommendations. The outlet and associated operating plan help reduce flood risk to habitable structures in the Twin Lake watershed in Little Canada and Vadnais Heights.*

The City of Little Canada confirmed that it does not have comments on the draft operations plan. The final operation and maintenance plan was submitted to the city and the RWMWD and is consistent with permit approvals from the RWMWD and Minnesota Department of Transportation prior to construction. The city is responsible for outlet operation as well as manhole and culvert maintenance, while the RWMWD is responsible for maintenance of the conveyance ditch from the railroad to the outlet. The operation plan is the last deliverable for this project.

## CIP project repair and maintenance

### **District inspection standardization (Barr project manager: Tyler Olsen; RWMWD project manager: Tina Carstens)**

*The purpose of this project is to standardize the district's creek and facilities inspection process, evaluation, and related data collection effort. The work will include review of current methods, development of a scoring system, and implementation of mobile data collection.*

In November, Barr developed a spreadsheet version of the inspection scoring tool, including infrastructure categories, scoring criteria, and weighting factors. The categories and criteria are consistent with all of the infrastructure that the RWMWD currently inspects as part of its annual preparation for the CIP maintenance and repair project. Barr reviewed the tool internally with RWMWD staff who are knowledgeable about district's infrastructure, and we will provide internal comments to incorporate into the tool. We plan to meet in December with the RWMWD staff to review the tool in its draft form.

### **CIP maintenance/repairs 2021 project (Barr project manager: Greg Nelson; RWMWD project manager: Dave Vlasin)**

*The purpose of this project is to maintain existing systems and infrastructure owned and operated by the RWMWD and to assist and facilitate stormwater pond cleanouts to allow other public entities to meet their MS4 requirements.*

The project schedule has been extended to accommodate work in the Owasso Basin outlet channel, which is planned for the first week in December. The deadline for final contract payment is December 31.

### **CIP maintenance/repairs 2022 project (Barr project manager: Greg Nelson; RWMWD project manager: Dave Vlasin)**

*The purpose of this project is to maintain existing systems and infrastructure owned and operated by the RWMWD and to assist and facilitate stormwater pond cleanouts to allow other public entities to meet their MS4 requirements.*

The project is now out for bid, with bid opening planned for December 6. Bids will be presented to the board at the December 8 meeting. The board should consider awarding the project to the lowest responsive and responsible bidder that is qualified to meet the intent of the project.

## **Natural Resources Update – Bill Bartodziej and Simba Blood**

### **Lake Owasso Shoreland Project - Ecological Restoration at the Water's Edge**

This summer, NR and Ramsey County staff secured another Conservation Partners Legacy Grant to conduct a comprehensive ecological restoration on a degraded lake shoreland parcel. The project will focus on 710' of shore located in a Ramsey County Park on the north end of Lake Owasso (see map below). A majority of the work will be conducted in the spring and summer of next year. This is the largest publically owned parcel on the lake, and an extremely important shore segment due to it being high profile (i.e., between the swimming beach and the boat ramp) and largely contiguous. Currently, the shoreland area is composed of invasive weeds, a few aggressive native plant species, and areas of bank slumping with moderate erosion taking place. Overall, the shore is in a degraded state with low native plant diversity. This land cover generally provides poor habitat and is susceptible to additional erosion.

The overall objectives of the restoration are to stabilize shore areas with deep rooted native vegetation, significantly increase native plant diversity, provide exceptional shore habitat for fish, amphibians, birds, and pollinators, and create an aesthetically pleasing landscape for park patrons. In addition, this project will be a highly visible demonstration for shoreland owners and others visiting the park. It will likely become a catalyst for individuals to take on their own shoreland restoration projects through the District's Stewardship Grant Program. Collectively over time, this project and the addition of numerous shore restoration projects around the lake will substantially benefit this important surface water system.

NR staff will take the lead in ecological restoration design and project implementation. We will partner with Ramsey County Park staff in conducting site preparation, installation, and maintenance activities. Sage Passi is already working with local schools to incorporate the restoration into their curriculum. The plan is to have hundreds of students participate in class sessions and on site field activities involving native plant installation. We also plan to have a variety of local civic groups assist with the planting. Our Citizen Advisory Committee will have an opportunity to become involved with the project as well.





The shore restoration areas will be highly visible from all areas of the park and even from Owasso Boulevard. Because of this, lower growing and more showy native plant species will be favored in the design. We will use a mix of bio-engineering materials, native seed, and plant containers in the wet meadow transitional zone (water's edge). This will help with erosion control and plant establishment. In the upland buffer areas, we will use mulch and intensively plant this short grass prairie zone with volunteers. We will introduce over 50 native plant species in the restoration. The entire restoration will be fenced to reduce foot traffic during the plant establishment period.



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## Public Involvement and Education Program – Sage Passi



### Eyes on a Wetland – Exploring Water, Flora and Oak Trees at Ames Lake

On a crisp November 4<sup>th</sup> morning, Sage, Tracy and water quality staff, Lyndsey and Kyle converged on the Ames Lake boardwalk in East St. Paul with dissolved oxygen kits, the Sonde, the Van Dorn, pH and temperature meters and transparency tubes in preparation for demonstrating their use with two classes. Around the wetland's bend, naturalists Cathy Troendle and Mike Laughton waited with a stack of cardboard squares and rolls of scotch tape. The arrival of two L'Etoile du Nord French Immersion fifth grade classes was imminent.

The students had been primed with an equipment practice session and a slide show beforehand. From Sage's storytelling and slides, the students learned about this neighborhood lake's transformation from a forty-year stint as a shopping mall back to a vibrant lake and wetland in 2000. Students recorded data during the monitoring demonstration and collected data with their own water quality tools. They were guided on a wetland walk by Cathy and Mike, conducted a transect study by collecting and attaching plant samples to cardboard, keyed out burr oaks on the site and shared their discoveries and water quality data at the end!



**Top left:** L'Etoile students do a transect study of plants and share their discoveries. **Top right:** a team conducts a transparency test. **Lower left:** Lyndsey Provos demonstrates how she uses the Sonde. **Lower right:** M. Tran observes her students' data recording of the water quality test results they collected.



## **Mounds Park High School Classes Remove Siberian Elm in Rainwater Basins**



Mitch Thomsen, a Mounds Park Academy high school science teacher in Maplewood is dedicated to engaging his students in learning from, monitoring and acting as stewards of their large-scale wetland and rain basin buffer projects that were established many years ago on their campus with the help of our watershed district. Each year his classes grow native plants to supplement these buffers and provide seedlings for many of our community projects. His student conduct macroinvertebrate, bird and frog counts, install blue bird nests, participate in Bumble Bee Watch and perform other ecological studies on their site.

After doing a burdock purge in one area in late October, we scheduled another session for November 2 with three of Thomsen's tenth grade science classes who took on the challenge of tackling Siberian elm trees and buckthorn with us in their buffer areas. After working in the buffer two days, his classes begged Mitch to let them go out another day to continue this work!

Thomsen and a parent volunteer, Michelle Wessely who has also been very engaged in doing plantings around the lower campus and working with the school's grounds staff to remove buckthorn on the school's adjoining land, organized another session with parent volunteers and youth to do additional buckthorn removal around the grounds on Saturday, November 20.

## **Central Park Sixth Graders Team Up to Do Leaf Clean-ups in Central Park**

Two sixth classes at Central Park Elementary in Roseville took on cleaning leaves in the storm drains and parking lots at Central Park near the arboretum and at the Wildlife Rehabilitation in early November with help from our education team. Tracy Leavenworth visited the classes prior to the clean-up and provided a lesson on water quality issues in lakes, wetlands and creeks. These students will also be working with us in the winter and spring to prepare for their involvement in the Lake Owasso shoreline restoration project next spring.



The celebratory “dance” pose by a student in one of the Central Park classes (above) captures the spirit and enthusiasm the students expressed in their energetic protection of Bennett Lake and adjacent wetlands on November 5. Students and teachers, thank you for your stewardship!



Teamwork and dedication to getting the leaf clean-up job done in a small window of time was evident in the classes’ efforts in the Central Park parking lot that drains to Bennett Lake. The warm sunshine that afternoon helped to make the work easier despite the strong winds!

### **Battle Creek Elementary Fourth Graders Investigate Water Pollutants**



On November 23 and 24, Tracy Leavenworth and Cathy Troendle worked with three fourth grade classes at Battle Creek Elementary School to help them visualize what watersheds are and the types of pollutants that can impact water quality. They were presented with trays covered by plastic bags with objects under them to create different elevations. Students were given a tray with multiple small containers containing materials that represent or are actual pollutants that can cause issues in our water bodies. Included were oil, grass clippings, leaves, litter, gravel, salt, fertilizer, soil and animal droppings. They were given a spray bottle with water and one by one they added the pollutants and observed how these pollutants were able to collect, flow and pollute the water representing streams, wetlands, lakes and “bodies” of water downstream. Earlier this fall the classes visited BMPs in the neighborhood, explored the McKnight Basins in Battle Creek Regional Park and followed the route of Battle Creek.

### **Application for DNR’s No Child Left Inside Phase 3 Mini Grant**

Sage and Cathy Troendle collaborated to complete the application for this program that aims to support and expand programming that connects youth to the outdoors. Funded by the 2019 Minnesota Legislature and additional funding from the 2021 legislative session, these grants support outdoor environmental, ecological, and other natural-resource-based education and recreation programs serving youth. If awarded, this grant funding would support our efforts to provide opportunities for a more close-up investigation of the interrelationship between wildlife (mammals, insects, birds, amphibians, reptiles and insects) and the habitats that are fostered through our shoreline restoration projects, water quality enhancement projects and native plantings.

"If we want children to flourish, to become truly empowered, then let us allow them to love the earth before we ask them to save it. ~ David Sobel" (A quote from the MN DNR application)



## **Communications Report – Lauren Hazenson**

### **Website Redesign**

The following tasks and meetings were completed this month:

- Information Architecture (IA)
  - IA focuses on organizing website content, which includes beginning to form the basic website structure. Lauren and Simba met with St. Paul Media four times in November to start drafting the site structure. They also met with program staff to ensure we included all needed program information on the site.
  - So far, the site structure includes these key improvements:
    - A searchable document catalog with a keyword function that will enable a user to find reports within a topic area quickly
    - A section explaining basic watershed concepts, watershed structure, and a glossary of terms
    - A page linking to all lake level graphs, water quality data, and DNR information
    - Seasonal educational resources and a volunteering section
    - Highlights management plan and cross-links management plan to relevant project pages
    - A page featuring the financials from previous years, also shared in our annual report

The site architecture draft is about halfway to completion and will be available for usability testing once it is farther along.

- Writing for the Web Workshop, November 30
  - This workshop trained staff to write pages and posts for better search engine optimization (SEO) to make our content and site more visible on Google and other search engines.

### **Recognition Awards**

Tasks completed for the awards included:

- Filming and producing 13 videos for the Watershed Excellence and LEAP sections for the awards program, as well as the artist talk
- Drafting an awards script, except the LEAP section and Board President introduction
- Invite communication, reminder emails, slideshow content, and dessert printout design
- Post-awards communication campaign, including press releases, newsletter, and social media posts
- Raffle planning support

### **Program Support**

This month an online form was completed for the Stewardship Grant Program that will allow them to have a smooth intake process for site consultations. The site consultation step is required before grant

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application submittal. This form will cut down on time required for applicants and create consistency in the information staff receive on each potential project in a way that can be easily tracked and shared.

### **Enewsletter**

November 19

1,519 recipients (100+ audience growth due to event attendee subscriptions)

Open rate: 37.7%

Article link clicks: 6%

### **Social Media (Facebook, Twitter, Instagram)**

Numbers as of November 30:

Audience: 2,711

Impressions/Post Views: 2,781

Engagement (likes, comments, shares): 199

### **Resident Communications/Professional Development/Misc.**

- EMWREP meeting on 2022 Education Programs: 11/22
- Education Program check-ins (occurs every other week since July 2020): 11/10 and 11/23