



**RAMSEY-WASHINGTON**  
METRO WATERSHED DISTRICT

# **June 2023 Board Packet**

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# Agenda

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## **Regular Board Meeting Agenda**

Wednesday, June 7, 2023

6:30 PM

*This month's meeting will be held at the District office (2665 Noel Drive, Little Canada, MN) but also via the video conferencing platform Zoom. Board members, staff, consultants, and general public will be able to join in person OR via video and/or phone. The public will be able to listen to meeting but not participate with the exception of the visitor comments portion of the agenda. 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 April 5, 2023 (pg. 7)
  - B. Approval of Regular Meeting Minutes May 3, 2023 (pg. 20)
  - C. Treasurer's Report and Bill List (pg. 26)
  - D. Permit Program
    - i. 23-13 Snail Lake Boat Launch, Shoreview (pg. 40)
    - ii. 23-14 Gladstone Village, Maplewood (pg. 45)
    - iii. 23-16 MnDOT Hwy 5 Improvements, St. Paul/Maplewood (pg. 49)
  - E. Stewardship Grant Program
    - i. 23-20 CS Escape Climbing, rain gardens (pg. 54)
    - ii. 23-21 CS Kosobayashi Phase 3, native habitat restoration (pg. 56)
    - iii. 23-22 CS Snail Lake Aquatic Vegetation Harvesting (pg. 58)
    - iv. 23-23 CS Nelson, rain garden (pg. 60)
4. Visitor Comments (limited to 4 minutes each)
5. Permit Program
  - A. Applications
    - i. **23-15 Maplewood Myrtle-Sterling 2023 SIP, Maplewood (pg. 63)**
    - ii. **23-17 The Heights Phase I, St. Paul (pg. 75)**
  - B. Enforcement Action Report (pg. 93)
  - C. **Rule Changes – Authorize Distribution for Formal Review and Comment (pg. 96)**
6. Stewardship Grant Program
  - A. Applications
    - i. **23-19 CS Ramsey County Beaver Lake, shoreline restoration (pg. 152)**
  - B. Budget Status Update (pg. 154)
7. Action Items
  - A. **2023 Enhanced Street Sweeping Grant Funding (pg. 156)**
8. Attorney Report
9. Board Discussion Topics
10. New Reports and/or Presentations
  - A. Review of Equity Area Definition (pg. 160)

11. Administrator's Report (*pg. 164*)
  - A. Meetings Attended
  - B. Upcoming Meetings and Dates
  - C. Board Action Log and Updates
  - D. Minnesota Watersheds Updates
  - E. WaterFest
  - F. District Budget Process
  - G. Staffing Updates
12. Project and Program Status Reports (*pg. 169*)
  - Project Feasibility Studies*
    - A. Interim Emergency Response Planning
    - B. Kohlman Creek Flood Risk Feasibility Study
    - C. Ames Lake Area Flood Risk Reduction Planning Study
    - D. Owasso Basin/North Star Estates Improvements
    - E. Resiliency Study for non-Beltline Tributary Areas
    - F. Street Sweeping Study
  - Research Projects*
    - G. Kohlman Lake Aquatic Plans and Nutrients Study
    - H. Shallow Lake Aeration Study
  - Project Operations*
    - I. 2023 Automated Lake-Level Stations
  - Capital Improvements*
    - J. Woodbury Target Store Stormwater Retrofit Projects
    - K. Roosevelt Homes Targeted Retrofit Project
    - L. Stewardship Grant Program Support
    - M. Arbogast Stormwater Filtration BMP
    - N. Pioneer Park Stormwater Reuse
    - O. Double Driveway Pond and Fish Creek Tributary Improvements
  - CIP Project Repair and Maintenance*
    - P. 2023 CIP Maintenance and Repair Project
  - Program Updates*
    - Q. Natural Resources Program
    - R. Public Involvement and Education Program
13. Manager Comments and Next Month's Meeting
14. **Adjourn**





# RAMSEY-WASHINGTON

## METRO WATERSHED DISTRICT

### **NOTICE OF BOARD MEETING**

**Wednesday, June 7, 2023**

**6:30 PM**

### **Hybrid Meeting: In-Person and Web Conference**

This month's meeting will be held at the District office (2665 Noel Drive, Little Canada, MN) AND via the video conferencing platform Zoom. Board members, staff, consultants, and general public will be able to join in person or via Zoom. The public will be able to listen to meeting but not participate with the exception of the visitor comments portion of the agenda. Visitor comment may be given in person or via Zoom. Instructions for joining in on the Zoom meeting can be found below.

To access the meeting via webcast, please use this link: <https://us02web.zoom.us/j/83150345657?pwd=T1NEZFczb3d5bEpPekpEY2dKUWo0QT09>

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 **831 5034 5657**. The meeting password is **325361**. 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

### Ramsey-Washington Metro Watershed District Minutes of Regular Board Meeting April 5, 2023

The Regular Meeting of April 5, 2023, was held at the District Office Board Room, 2665 Noel Drive, Little Canada, Minnesota, and via Zoom web conferencing, at 6:30 p.m. A video recording of the meeting can be found at <https://youtu.be/d1NSrscrpXY>. Video time stamps included after each agenda item in minutes.

#### **PRESENT:**

Val Eisele, President  
Matt Kramer, Treasurer  
Ben Karp, Secretary  
Mark Gernes, Manager

#### **ABSENT:**

Dr. Pam Skinner, Vice President

#### **ALSO PRESENT:**

Tina Carstens, District Administrator  
Brandon Barnes, Barr Engineering  
Nicole Soderholm, Permit Inspector  
Kyle Kubitza, Water Quality Technician  
Bill Bartodziej, Natural Resource Specialist  
Laurann Kirschner, Attorney for District  
Dustin deFelice, Bolton and Menk  
Monte Hileman, Saint Paul Port Authority

Paige Ahlborg, Project Manager  
Mary Fitzgerald, District Inspector  
Dave Vlasin, Project Coordinator  
Eric Seaburg, Bolton and Menk  
Bob Barth, WSB  
Greg Williams, Barr Engineering

#### **1. CALL TO ORDER**

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

#### **2. APPROVAL OF AGENDA (0:10)**

Motion: Manager Kramer moved, Manager Karp seconded, to approve the agenda as presented.

A roll call vote was performed:

Manager Karp	aye
Manager Gernes	aye
Manager Kramer	aye
President Eisele	aye

Motion carried unanimously.

#### **3. CONSENT AGENDA (1:33)**

- A. Approval of Minutes from March 1, 2023
- B. Treasurer's Report and Bill List
- C. Permit Program
  - i. 23-09, Woodbury 2023 Street Improvements
  - ii. 23-11, Reuter Walton Apartments II, Little Canada

- iii. 23-12, Jordan Seeds Property Grading, Woodbury
- D. Stewardship Grant Program
  - i. 23-08 CS, Jakel, Rain Garden

Motion: Manager Gernes moved, Manager Kramer seconded, to approve the consent agenda as presented.

A roll call vote was performed:

Manager Karp	aye
Manager Gernes	aye
Manager Kramer	aye
President Eisele	aye

Motion carried unanimously.

#### **4. VISITOR COMMENTS (2:04)**

No comments.

#### **5. PERMIT PROGRAM (2:32)**

##### **A. Applications**

##### **Permit #23-08: Little Canada 2023 Street Improvements**

Nicole Soderholm noted that she provided an introduction to this request at the last meeting relating to the proposed wetland impact. She hoped that the amendment wetland replacement plan answered the questions from the previous month. She provided a general overview of the proposed road project between the two cities.

Commissioner Gernes noted that he raised questions the previous month related to the evaluation of providing restoration within the District and stated that his questions were answered by the materials provided by staff and the applicant. He noted that this would be a small impact that he is comfortable with.

Commissioner Karp noted that his questions have also been addressed by the revised materials.

President Eisele stated that he had questions on water treatment and appreciated the additional details. He asked if the minimum wetland buffer of 37.5 would be maintained around the area of construction. Nicole Soderholm replied that the minimum wetland buffer of 37.5 feet is shown in yellow on the map and noted that the existing roadway is within that area therefore the minimum buffer is not met under existing conditions. She stated that the road is being narrowed but there would still be impacts from the trail. She stated that there is a related variance request proposing an average wetland buffer of 41 feet. She explained the desire to balance the existing corridor and the importance of stormwater treatment. Staff recommends approval. President Eisele commented that if staff recommends the treatment plans proposed that would also make sense to him.

Motion: Manager Karp moved, Manager Gernes seconded, to approve Permit #23-08 with special provisions, wetland replacement plan, and variance request.

A roll call vote was performed:

Manager Karp	aye
Manager Gernes	aye
Manager Kramer	aye
President Eisele	aye

Motion carried unanimously.

Permit #23-10: Oakdale Senior Living

Nicole Soderholm stated that this is a proposed senior living development which proposes to develop the southern portion of the large parcel. There are no impacts to the wetland proposed but there would be temporary wetland buffer impacts for grading. She stated that the buffer would be revegetated with a native seed mix. She noted that the average buffer would be exceeded.

Manager Gernes commented that the drawings were not clear as to the drainage plans and the direction water would flow. Nicole Soderholm provided additional details on the path drainage would follow for different areas of the site.

Brandon Barnes stated that the applicant is improving the drainage on the southeast side of the parcel to respond to offsite runoff.

Manager Gernes referenced the managed C wetland to the northwest of the parcel and asked if that would be the primary discharge location. Brandon Barnes replied that the discharge would be to the managed B wetland after treated by one of the two stormwater management areas.

Manager Gernes noted that it was mentioned that there would not be any wetland impacts proposed, only the temporary buffer impact. He commented that it seems that the new pond is very near the managed B wetland. Nicole Soderholm explained that the diagonal hatching is the delineated buffer, not the wetland.

Motion: Manager Gernes moved, Manager Kramer seconded, to approve Permit #23-10 with special provisions and variance request.

A roll call vote was performed:

Manager Karp	aye
Manager Gernes	aye
Manager Kramer	aye
President Eisele	aye

Motion carried unanimously.

B. Monthly Enforcement Report

During March, two notices were sent to address: install/repair construction entrance (1) and install/repair inlet protection (1).

President Eisele referenced the apartments in Oakdale mentioned in the report and asked if the water management was not established, causing the pooling water, and whether that was typical to occur. Nicole Soderholm stated that the site is temporarily graded and temporary containment of water. Mary Fitzgerald replied that this was an existing pond that was converted to the temporary basin. She stated that they were not anticipating the water level to bounce to the level it did.

Manager Karp stated that his question was also in regard to that site. He asked if District staff is present to conduct an inspection during the dewatering to ensure the water is not silty. Mary Fitzgerald replied that she attempts to be onsite for at least part of the dewatering and then photos are required of the water discharged showing the date and times. Nicole Soderholm stated that the MPCA is looking to add more specific dewatering requirements and staff is attempting to get contractors used to that practice of active monitoring.

C. Hillcrest Golf Course Redevelopment – Wetland Replacement Plan Information

Nicole Soderholm stated that Saint Paul Port Authority is the developer for this site and a general presentation was provided to the Board in December 2020 for their mixed-use development. She recognized that many managers were not part of the Board at that time and provided background information on the closed golf course and development intentions. She stated that this is a unique site because of the mercury contamination and remediation that would be necessary. She reported that a grading permit has been submitted to the District and staff is reviewing that. The City of Saint Paul is the LGU for administering WCA and therefore is reviewing the wetland replacement plan which has been noticed for comments. She stated that close to one acre of temporary impact is proposed for contamination removal, and three acres of permanent impact as a result of contamination removal. She stated that one-to-one mitigation would be provided onsite. She stated that a number of agencies have provided input on the wetland replacement plan, and she would also plan to provide written comments.

President Eisele asked the total project area. Nicole Soderholm replied that the site is 112 acres. President Eisele asked what would prevent full replacement of the wetland acreage that would be lost. Tina Carstens replied that one to one replacement would be provided onsite and the additional wetland credits would be required as a two to one rate of replacement is required for permanent impacts.

Manager Karp asked if there is reasoning why the full two to one replacement is not proposed on site with such a large site. Monte Hileman, applicant from the Port Authority, stated that the Port Authority purchased the site for the purpose of redevelopment and realized that would need to be done through mixed use. He provided general background on the process and parameters that were placed on the purchase of the site by the City of Saint Paul. He stated that agreement required 1,000 jobs to be created onsite, 1,000 housing units, 20 acres of parkland and open space; noting that the City only wanted to own and maintain five acres and the Port Authority agreed to own and maintain in perpetuity as publicly available park and open space area. He also noted the trails and stormwater that would be necessary. He provided details on the progress they have made in their design development. He noted that each parcel has been programmed with hypothetical buildings in order to meet all the parameters placed on the site. He stated that part of their mission is to advance sustainable development and they have done their best to incorporate that into all the public sector goals for the property. He commented that every turn lane, setback, easement has been strongly considered and they have tried to strike the best balance. He stated that this is not a conservation project but a restoration project because of the mercury that was used on the golf course. He stated that there are practicalities of what is feasible and practical for all aspects of the site. He commented that they have tried to accommodate all the goals within the site. He explained that they are a public entity, and their end goal is public benefit rather than maximization of profits. He noted that there will likely be a variance request in the future related to wetland buffers that will be pinched. He believed that the wetlands and stormwater system will be an amenity that will be an opportunity for education and would love to speak with the District about that when they get to that point.

President Eisele asked the type of wetlands and proposed changes that would come. Tina Carstens noted that would be included in the next review.

Manager Gernes stated that he lives in that area and is curious about the soil remediation. He asked where that material would be going. Monte Hileman commented that would be part of the bid with the contractor but confirmed it would be hauled offsite. Bob Barth provided additional details on the amount of material that is anticipated to be removed from the site and the steps that would be followed to monitor that activity. Monte Hileman noted that there would be two state agencies monitoring that process.

Manager Gernes commented that the majority of the wetlands lie on the east side of the property with a fair amount of topography which could create challenges for drainage. He commented that wetlands to the east of the site have been stressed. Monte Hileman commented that they would be improving the status of this site which would positively impact adjacent properties.

Nicole Soderholm provided details on the wetlands that would be impacted and the remediation that would be proposed onsite. She stated that the purpose of this discussion was to bring this to the Board to review the mitigation that would be proposed both onsite and offsite.

President Eisele asked for details on the process. Tina Carstens commented that the stormwater review is under review. Nicole Soderholm stated that the WCA process is different and will be wrapped up before they go into more detail on the other elements. President Eisele commented that he likes the onsite mitigation. Monte Hileman credited District staff for the onsite mitigation as they were alerted early on that is very important to the Board and the District. He commented that they will hopefully award a contract in March and the contractor would mobilize in June.

President Eisele thanked Monte Hileman and his team for providing this information tonight.

## **6. STEWARDSHIP GRANT PROGRAM (41:00)**

### **A. Applications**

#### **Permit #22-08 CS: Battle Creek Middle School – Request for additional funds**

Paige Ahlborg provided details on the additional fund request for this project to fund the construction of a filtration basin and native planting to assist with drainage problems. She commented that the project was delayed and has incorporated additional elements requested by staff. She noted that an additional \$30,000 is being requested towards the project. She stated that revised plans were submitted the previous day along with MIDS calculations and staff will follow up with some questions. She stated that if the Board recommends approval it should be contingent upon the applicant working with staff to ensure the project meets the guidelines of the grant program.

President Eisele referenced the increase amount noting that it goes above the maximum limit. He asked how much of that is due to the ask of the District for changes, versus other things. Paige Ahlborg estimated about \$15,000 was for the plants and the remainder was for soil work and overall construction cost increases. President Eisele stated that this would be a 30 percent increase over the maximum limit and asked the sense on the return of investment for the project. Paige Ahlborg replied that she would review the cost benefit. She stated that school projects have been funded through this program at higher amounts. She commented that there are a lot of eyes reviewing this as other grant funds are involved. She stated that the total project cost was about \$260,000 which included outdoor classroom areas, noting that changes were made to that to reduce to around \$230,000.

Manager Gernes commented that he was curious as to whether this would set precedent on exceeding the \$100,000 mark for this program. Paige Ahlborg commented that while this is a significant request, the Board has approved additional funds for projects for similar reasons. She stated that she felt this was suitable because a large portion of the increase was a result of the District request for changes to the planting plan. She stated that there have been residential, commercial, and school projects that have gone above the maximum threshold.

Manager Gernes asked how long those maximums have been in place and whether it should be adjusted due to the status of the economy. Paige Ahlborg replied that they review the program each year and have had the same maximums for the past three years. She stated that the additional fund requests are not often received or encouraged, unless staff deem it appropriate. She confirmed that they would review those numbers again this year.

Manager Karp asked if staff has reviewed the planting plans closely and determined where there could be more cost-effective choices to lessen the increase. Paige Ahlborg replied that the plan is reviewed with Ramsey Soil and Water and advised that part of the plantings are being funded through BWSR/DNR grants and those agencies will also be reviewing the plans. She stated that they balance costs with ongoing maintenance and proper establishment.

President Eisele asked what would happen if the additional funds were not approved. Paige Ahlborg did not believe the project would move forward as the school has limited funds and the other grants from other agencies are already maximized. Tina Carstens noted that the grants are reimbursed and therefore it would be possible that the applicant would not reach the maximum approved.

Manager Karp asked if there are other potential projects known that would help determine if these funds would be available in the budget. Paige Ahlborg stated that there is sufficient funding available. She noted that there are some large projects in the early planning stages but did not feel that allocating these additional funds would prevent another project from moving forward.

Manager Gernes asked the size of the site being restored. He commented that it seemed that this site is in an underserved area and asked if this would be a priority area. It was confirmed that this is located in a priority area for the District. Paige Ahlborg stated that the actual project size is about one-half acre.

President Eisele felt that the Board should be transparent in why it allowed additional funding to ensure this would not set precedent in going over the maximum threshold. He acknowledged that this is a priority area and a school. Tina Carstens commented that the cost-share program does state that additional funds can be requested and would be considered at the discretion of the Board. She stated that staff has provided input on the planting, using the example of plugs providing a more successful outcome for the plantings.

Manager Gernes commented that the switch from seeding to containerized is a large cost that was a request of the District to increase the likelihood of success.

President Eisele stated that he would feel more comfortable with a more specific cost breakdown of the funding request. He asked if delaying this by one month would have an impact on the project timeline. Paige Ahlborg replied that the work would be started once school is out. Tina Carstens stated that the school would also need to let the project for bid prior to that time.

President Eisele asked the justification and/or liability if the Board were to approve this request but deny a future request from another applicant that wanted to go over the maximum threshold. Laurann Kirschner commented that if the Board is going to vary from the standard table, the Board would follow this exact process in having this discussion that is reflected in the minutes along with the decision. She stated that the basis for the decision should be noted and if a similar scenario arises in the future, it would likely be good to follow a similar decision. She stated that she is not concerned with liability as the District has discretion in whether or not it awards the grant as well as whether or not additional funds are allocated.

President Eisele summarized the discussion regarding the pros and cons of approval. The pros being:

1. reviewed the benefits of approving the additional funds noting that this Pproject site is within a priority area for the District.
2. Project is within an equity area for the District.
3. Project is located at a school so there would be benefit to children and education. and is
4. Project increased costs are largely due to a request from the District staff.

President Eisel continued with the cons of approval of this request including:

1. Setting precedent for future grant project overages and requests for additional funds.
- 1.2. He reviewed negative impacts to consider related to budget impacts and that tThe request is significantly over the maximum threshold.

Manager Gernes asked how frequently the District has experienced other overages within the program. He recognized that these are estimates and the funds are reimbursed. He asked how likely it would be that the end



cost would come in higher. Tina Carstens stated that typically this type of project would go through the targeted retrofit program where there would not be this type of cap.

President Eisele asked if this could be recategorized into the targeted retrofit program. Tina Carstens explained that in a targeted retrofit project the District would bid and construct the project, which is not occurring in this project.

President Eisele asked if the Board is comfortable moving forward with the request.

Manager Kramer commented that he is comfortable moving forward.

Manager Gernes asked how often projects go over the estimated amounts awarded. Paige Ahlborg stated that at times a project will go over but that is not typical as contractors stay within their bids. She commented that this contractor has been involved in the process. She noted that this is a not to exceed award from the District.

Manager Karp commented that he is comfortable moving forward because this is a priority area and equity area for the District. He noted that there are also other grant funds that have been awarded towards the project and was comfortable with the increased allocation.

Manager Gernes asked if this is phase two of a three phase project. Paige Ahlborg commented that the entire project will be completed this year.

President Eisele stated that he is comfortable moving forward for the reasons discussed.

Manager Gernes stated that although he has some pause, he would be comfortable with the conditional motion.

Motion: Manager Gernes moved, Manager Karp seconded, to approve an additional \$30,000 for application #22-08CS contingent upon the applicant working with staff to ensure the project meets the guidelines of the grant program.

Further discussion: President Eisele asked if the Board be alerted to any major changes. He also asked that a summary of the revisions to the planting plan be provided to the Board for review once available.

A roll call vote was performed:

Manager Karp	aye
Manager Gernes	aye
Manager Kramer	aye
President Eisele	aye

Motion carried unanimously.

**B. Budget Status Update**

No comments.

**7. ACTION ITEMS (1:09:31)**

**A. Owasso Shoreline Restoration Phase 2 Advertise for Bid**

Paige Ahlborg noted that this is phase two of the Owasso shoreline restoration which includes six residential properties. She stated that pending approval tonight the project would go out to bid Friday and staff would bring back the recommendation for the contractor at the May meeting.

President Eisele asked if there was a sense as to why more homeowners did not want to participate. Paige Ahlborg was unsure, noting that they did a large outreach effort with mailers, social media posts, and shared information with the lake association. She noted that if more homeowners are interested in the future, that could be done through the stewardship grant program.

Motion: Manager Kramer moved, Manager Karp 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. Motion carried unanimously.

**B. Arbogast Underground Stormwater Filter Advertise for Bid**

Paige Ahlborg stated that this is for the construction of an underground filtration project near Lake Emily in Shoreview. She explained that the project was identified through the feasibility study, and this will go through the targeted retrofit program to be constructed this summer. She stated that BWSR clean water grant funds have been allocated for this project as well. She noted that pending approval this would go out to bid and also come back to the Board for contractor selection in May.

Manager Karp stated that he was interested in the difference between the iron enhanced sand and CC17, noticing that staff chose to select the CC17. He asked if this type of project would ever be feasible using iron enhanced sand as a secondary treatment option. Brandon Barnes replied that the 30 percent design did include iron enhanced sand as part of the design, but the filter media was switched because of the longer prolonged flows. He stated that the CC17 can stay inundated for a longer time. He stated that it would not be cost-effective to add a secondary treatment in this location.

Manager Gernes asked how long the CC17 would be effective. Brandon Barnes replied that the lifespan would be dependent on the phosphorus concentration. He commented that this would not be something that would need to be replaced annually. Manager Gernes asked if a dryer season would advance the age of the material. Brandon Barnes stated that the maximum capacity is driven by loading. He stated that whether it is a wet or dry season, the phosphorus would continue to be removed. Manager Gernes asked for details on maintenance costs. Brandon Barnes replied that CC17 is used in the Kohlman Weir, although this would be a slightly different application. He stated that there would be less maintenance costs because it is an aggregate material. He noted that they would conduct inspections but there would be less maintenance with CC17 than iron enhanced sand. He explained that the stop logs will assist with flow adjustment through the system and provided additional details on how the system is designed.

Tina Carstens stated that maintenance is factored into the cost benefit. She confirmed that the District would inspect the project. Brandon Barnes stated that the District would complete maintenance for the first two years and then the City would take over maintenance.

Motion: Manager Karp moved, Manager Kramer seconded, to approve the preliminary design, estimated costs, and proposed project schedule and direct staff to finalize the design and bidding documents and solicit bid proposals.

A roll call vote was performed:

Manager Karp	aye
Manager Gernes	aye
Manager Kramer	aye
President Eisele	aye

Motion carried unanimously.

C. 2023-2025 BMP Maintenance Program Selection of Contractors

Paige Ahlborg stated that this is the BMP maintenance program which would cover 2023 through 2025. She stated that staff has chosen the three contractors specified in the report and provided details on the experience of each, noting that two of the contractors have been involved in the maintenance program before.

Manager Gernes asked if the selection was based more on cost, experience or other factors. Paige Ahlborg confirmed that all of those things were factored in, noting that two contractors were ruled out because their prices were very high. She stated that the office locations were also factored to ensure quick response could be given, along with experience. Manager Gernes asked if input was solicited from the partners involved in the projects. Tina Carstens noted that these are all District projects that are being maintained.

Paige Ahlborg provided details on the shoreline restoration projects that are having maintenance completed by the contractors for those projects, while Snail Lake has now transitioned to this program.

Motion: Manager Kramer moved, Manager Karp seconded, to award the 2023-2025 BMP Maintenance contract to Rock Leaf Water Environmental, Davey Resource Group, and Sandstrom Land Management for the projects specified and direct staff to prepare the necessary documents and work with the selected contractor.

A roll call vote was performed:

Manager Karp	aye
Manager Gernes	aye
Manager Kramer	aye
President Eisele	aye

Motion carried unanimously.

**8. ATTORNEY REPORT (1:27:27)**

Laurann Kirschner welcomed the new Board members as this is her first meeting back. She did not have a specific report.

President Eisele commented that currently a roll call vote is completed and asked if the Board could transition back to voice votes. Laurann Kirschner commented that if the Board is all present in the room, a voice vote would be sufficient. She stated that if there was an opposing vote, a roll call vote could follow. She stated that if a member is attending virtually, a roll call vote would be needed. President Eisele confirmed consensus of the Board to return to voice votes at future meetings.

**9. BOARD ISSUES, POLICIES, AND OPERATION (FOR DISCUSSION AT MEETING) (1:30:10)**

A. Spring Flood Risk Assessment

President Eisele stated that he has been asked by residents about the plan for potential flooding and information was provided in response within the project summary report. Brandon Barnes commented that flooding is a big concern of residents and can be disruptive. He stated that the models are updated and rerun several times as the season progresses.

Tina Carstens confirmed that staff would be available to respond to resident concerns. Brandon Barnes noted that the information learned from the models will be shared with the member cities. He provided additional details on when modeling would be updated.

Manager Gernes asked if there would be value in having presence on the website related to flooding to share more broadly with the public. Tina Carstens stated that the lake level stations are posted on the website. She stated

that the more specific flooding information would be a lot to digest for the average website user and therefore it is easier to respond one on one when residents call with questions or concerns.

President Eisele stated that the intention in placing this item on the agenda is partially to make this information accessible to the general public.

Manager Karp acknowledged that this is not a simple subject to disclose. He noted that perhaps some basic information could be provided. Tina Carstens stated that staff could develop a newsletter article that talks more about the process. The Board agreed.

**B. Adopt-A-Culvert**

President Eisele asked that this item be postponed to the next meeting.

**C. Agenda Changes**

President Eisele highlighted a few changes that have or will be made to the agenda.

**10. NEW REPORTS AND/OR PRESENTATIONS (1:42:22)**

Manager Kramer left the meeting.

**A. District Wetland Management Strategies**

Greg Williams stated that there was a request for more information on the District involvement with wetland management, how that aligns with other entities in the metro area, and whether adjustments should be made to those strategies. He provided background information on wetlands as well as details related to the wetlands inventory and classification, the current RWMWD wetland management roles, and wetland management roles of other WMOs and WDs. He reviewed possible revisions to the RMMWD roles and bounce and inundation standards.

Tina Carstens asked how that type of requirement could impact developers. Brandon Barnes commented that it would depend and reviewed some of the factors that would be considered. He stated that in some cases developers have integrated into their design process, while in others it can be a lot of effort if attempting to address it at the end.

President Eisele used Hillcrest as an example and asked how this regulation would impact that development as proposed. Brandon Barnes noted that Hillcrest is unique because of the size and mass grading and wetland mitigation, therefore this type of regulation may not be applicable to that development.

President Eisele stated that he would be curious as to maintenance. Tina Carstens explained that this would only apply to development or redevelopment through the rules program.

Manager Gernes asked if some responsibilities would be pushed onto the cities in those instances mentioned. Tina Carstens explained the difference between a WMO and WD. Greg Williams noted that even in the case of a WMO, the regulation would only be triggered through development or redevelopment.

Manager Karp commented that it is a lot to digest, especially with the downstream effects.

President Eisele used a flood event when the bounce and inundation standard cannot be met and asked what would happen. Tina Carstens replied that nothing would happen as it is meant to be a design standard and a flood event cannot be controlled. Manager Gernes noted that rate control would seem to better address flood events.

Greg Williams provided additional input on the experience of organizations that have implemented bounce and inundation regulations.

Manager Gernes recognized that the five- and ten-year events would tend to be more frequent, which would make sense as to why the regulations apply to those events rather than the larger events.

Greg Williams provided potential revisions to consider related to buffer standards, noting that the District rules are already quite strong.

Laurann Kirschner stated that landowners tend to not like easement agreements, and usually those need to be paid for because it remains on the land in perpetuity. She commented that sometimes more informal agreements tend to go over better. Nicole Soderholm stated that the signage requirements for buffers tend to provide the necessary education when properties change hands.

Greg Williams reviewed potential revisions related to wetland monitoring that could be considered. Tina Carstens stated that the District has over 1,000 wetlands. She noted that an updated MNRAM assessment could be done on a representation of those many wetlands to gauge the level of change.

President Eisele agreed that it would be cost prohibitive to do monitoring every year on every wetland but perhaps some type of rotation schedule could be developed.

Nicole Soderholm noted that BWSR may be moving away from MNRAM assessment and therefore perhaps a full assessment would not make sense.

President Eisele agreed that it would not make sense to monitor too often and perhaps there is a trigger for inspection.

Nicole Soderholm stated that there is a process an applicant can follow if they believe the MNRAM assessment is incorrect.

Greg Williams reviewed potential revisions related to wetland restoration.

President Eisele stated that in a previous workshop they discussed the role banking plays and asked how this would relate to capital projects. Tina Carstens replied that this would be related to projects that the District would pursue. President Eisele asked if the District could require payment into a fund that would be used by the District to restore wetlands. Tina Carstens replied that the applicant would follow the WCA process, and the District would not want to be in the middle, creating credits that could be used for applicants. She noted that there were no sites identified that would create a wetland bank within the District boundaries.

Manager Karp stated that he likes the idea of water quality and asked how much thought has been put into underground filters at inflow/outflow areas or how water quality could be improved in other areas that previously provided treatment. Tina Carstens stated that the capital improvement funds are used for water quality projects, providing examples of those different programs. She commented that while wetland restoration would enhance that it would not be the primary tool for achieving water quality goals and would fall more under ecological restoration. Manager Karp asked how that would rate versus a targeted retrofit project. Tina Carstens commented that funds have been allocated in the budget for wetland restoration, but if the Board wants to be stronger in that area that should be identified as a higher priority in the next generation plan, or the current plan could be amended. She explained how the prioritization tool is used to rank different projects and concepts.

Manager Gernes noted past wetland restoration projects the District has been involved in. Tina Carstens confirmed and explained that those projects have gone through other programs of the District.

Greg Williams stated that the intention for tonight was to provide this information to the Board and gain any input on the potential revisions mentioned within the presentation. He also provided information on project review and documentation. He stated that based on the discussion thus far it seems that the buffer standards are sufficient and confirmed consensus of the Board.

President Eisele stated that he would love to see the best cost benefit relating to bounce and inundation standards.

Manager Karp agreed, noting that he would like to see more information as well as implications on development. Tina Carstens confirmed that staff could bring back something for the Board to consider and if it was determined that should move forward, a larger rule revision would be needed.

Manager Gernes confirmed that he would also want to see more information on the bounce standards and could see value in restoration. He stated that he would also be interested in information on wetland monitoring.

The Board agreed that it would like more information on bounce and inundation, wetland restoration and wetland monitoring. It was noted that monitoring should be intentional, and action driven rather than over burdensome.

Bill Bartodziej noted that maintenance is a large element of wetland restoration that should be considered as that would be a long-term responsibility.

B. Owasso Basin Area & North Star Estates Flood-Risk Reduction Scope Summary

No comments.

C. Targeted Retrofits – Roosevelt Homes, St. Paul Scope Summary

No comments.

**11. ADMINISTRATOR'S REPORT (2:49:30)**

A. Meetings Attended

No comments.

B. Upcoming Meetings and Dates

No comments.

C. Board Action Log and Updates

No comments.

D. Minnesota Watersheds Updates

No comments.

E. Staff Changes and Organizational Chart

Tina Carstens noted that the retirement of Bill Bartodziej is fast approaching, and staff will alert the Board once a recognition event is planned. She noted that she will not be present at the next meeting and Paige Ahlborg will be present in her place to assist with leading the meeting.

**12. PROJECT AND PROGRAM STATUS REPORTS (2:15:23)**

A. Barr's Approach to Assessing the Risk of Spring Flooding

*Project Feasibility Studies*

B. Interim Emergency Response Planning

C. Kohlman Creek Flood Risk Feasibility Study

D. Kohlman Creek/Wakefield Lake Diversion Feasibility Study

E. County Ditch 17 Improvements Feasibility Study

- F. Phalen Village Feasibility Study
- G. Ames Lake Area Flood Risk Reduction Planning Study
- H. Owasso Basin/North Star Estates Improvements
- I. Carver Ponds Improvement Study
- J. South Metro Mississippi River TSS TMDL
- K. Resiliency Study for Non-Beltline Tributary Areas
- L. Street Sweeping Study

*Research Projects*

- M. Kohlman Lake Aquatic Plans and Nutrients Study

*Capital Improvements*

- N. Woodbury Target Store Stormwater Retrofit Projects
- O. Targeted Retrofit Projects
- P. Stewardship Grant Program Support
- Q. Arbogast Stormwater Filtration BMP
- R. Pioneer Park Stormwater Reuse
- S. Double Driveway Pond and Fish Creek Tributary Improvements

*CIP Project Repair and Maintenance*

- T. 2023 CIP Maintenance and Repair Project
- U. 2023-2025 BMP Maintenance Program

*Program Updates*

- V. Natural Resources Program
- W. Public Involvement and Education Program

**13. MANAGER COMMENTS AND NEXT MONTH'S MEETING (2:52:12)**

No comments.

**14. ADJOURN**

Motion: Manager Gernes moved, Manager Karp seconded, to adjourn the meeting at 9:22 p.m. Motion carried unanimously.



**Ramsey-Washington Metro Watershed District  
Minutes of Regular Board Meeting  
May 3, 2023**

The Regular Meeting of May 3, 2023, was held at the District Office Board Room, 2665 Noel Drive, Little Canada, Minnesota, and via Zoom web conferencing at 6:30 p.m. A video recording of the meeting can be found at <https://youtu.be/VN-qyP7STas>. Video time stamps included after each agenda item in minutes.

**PRESENT:**

Val Eisele, President  
Dr. Pam Skinner, Vice President  
Ben Karp, Secretary  
Mark Gernes, Manager

**ABSENT:**

Matt Kramer, Treasurer

**ALSO PRESENT:**

Paige Ahlborg, Project Manager  
Mary Fitzgerald, District Inspector  
Eric Korte, Water Quality Monitoring Coordinator  
Dave Vlasin, Project Coordinator

Erin Anderson Wenz, Barr Engineering  
Laurann Kirschner, Attorney for District

**1. CALL TO ORDER**

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

**2. APPROVAL OF AGENDA (0:55)**

Motion: Manager Skinner moved, Manager Karp seconded, to approve the agenda as presented. Motion carried unanimously.

**3. CONSENT AGENDA (1:31)**

A. Approval of Minutes from April 5, 2023

B. Treasurer's Report and Bill List

C. Stewardship Grant Program

i. 23-12 CS – Salina, Rain Gardens

ii. 23-13 CS – Woodlyn Avenue Impervious Surface Reduction

President Eisele requested to remove Item A from the Consent Agenda.

Motion: Manager Karp moved, Manager Skinner seconded, to approve the consent agenda as amended. Motion carried unanimously.

A. Approval of Minutes from April 5, 2023

President Eisele referenced the approval of additional funds for the school project. He hoped that some of the concerns could be included in addition to the reasons for approval that were reflected. It was noted that the item was conditionally approved at that meeting.



Laurann Kirschner suggested not taking action on the minutes tonight and having this item come back at the next meeting so the Board can review the changes.

**4. VISITOR COMMENTS (5:33)**

**5. PERMIT PROGRAM (5:38)**

A. Applications - None

B. Monthly Enforcement Report

During April, 23 notices were sent to address: install/repair inlet protection (4), install/maintain perimeter control (3), contain liquid/solid wastes (2), repair erosion (1), install upgradient BMPs (1), maintain temporary sediment basin (1), maintain up to date inspection log (4), sweep streets (2), stabilize exposed soils (1), maintain/protect permanent BMPs (3), and dewatering issue (1).

Mary Fitzgerald provided more details on the different violations. She also provided more explanation on the steps that can be taken in private and public projects if there are repeated violations.

**6. STEWARDSHIP GRANT PROGRAM (10:55)**

A. Applications – See Consent Agenda

B. Budget Status Update

Paige Ahlborg provided more details on the maintenance grant program.

**7. ACTION ITEMS (13:42)**

A. Lake Owasso Shoreline Restoration Phase 2 Bid Award

Paige Ahlborg stated that four bids were received with Sandstrom Land Management coming in with the lowest bid. She noted that the District has experience with that contractor and recommends approval.

President Eisele noted that some of the costs were lower than anticipated and asked if the line items were checked. Paige Ahlborg confirmed that staff has checked those items and again reiterated that the District has experience with this contractor. She noted that some of the differences in bids were due to the two years of maintenance required.

Motion: Manager Gernes moved, Manager Karp seconded, to accept the bids and award the Lake Owasso Shoreline Restoration Phase 2 Project to Sandstrom Land Management and direct staff to prepare and mail the notice of award, prepare the agreements, and review the required submittals. Motion carried unanimously.

B. Arbogast Underground Stormwater Filter Bid Award

Erin Anderson Wenz stated that nine bids were received, and all the bids were higher than the engineer's estimate, although some were not significantly higher. She explained some factors that come into play with different bids. She stated that Shoreline Landscaping was the lowest responsible bidder and noted that the District does have experience working with that contractor and its subcontractor.

Motion: Manager Skinner moved, Manager Gernes seconded, to accept the bids and award the 2023 Targeted Retrofit project to Shoreline Landscaping and direct staff to prepare and mail the notice of award, prepare the agreements, and review the required submittals. Motion carried unanimously.

President Eisele commented that in these scenarios it is helpful to have the information on the other projects the contractor has worked on.

C. District Holiday Schedule Changes for 2023

Manager Gernes commented that the information in the packet stated that federal agencies have been observing these two holidays. He asked if other local government entities/municipalities are observing Indigenous People's Day. Paige Ahlborg stated that some entities still call it Columbus Day but do still observe the holiday. Manager Gernes stated that he does not have an objection but was just wondering.

Manager Karp reiterated that it is essentially just a name change for the holiday.

Motion: Manager Skinner moved, Manager Gernes seconded, to add Monday, June 19, 2023 (Juneteenth) and Monday, October 9, 2023 (Indigenous People's Day) to the District holiday schedule and include them in subsequent years. Motion carried unanimously.

**D. Accept the 2022 District Annual Financial Audit**

Paige Ahlborg reported that the auditor provided a clean opinion with no findings.

President Eisele asked when budget discussions begin. Paige Ahlborg replied that begins in July/August and continues into the fall. President Eisele noted that there were some trends in the general fund that should be discussed during the budget discussions. He referenced the pension and whether that would be revisited in regard to inflation. He referenced the final compliance report and language found within, asking if there was informal communication of any issues. Paige Ahlborg confirmed that is standard language included in the report.

Motion: Manager Karp moved, Manager Skinner seconded, to accept the 2022 Annual Audit Report. Motion carried unanimously.

**8. ATTORNEY REPORT (29:33)**

Laurann Kirschner stated that things have been quiet, and she had nothing to report.

**9. BOARD ISSUES, POLICIES, AND OPERATION (FOR DISCUSSION AT MEETING) (30:00)**

**A. Adopt-A-Culvert**

President Eisele referenced the Adopt-A-Drain program and asked if it would make sense to have a similar program for culverts. Paige Ahlborg stated that drains are within the right-of-way and easily accessible, whereas culverts are sometimes on private property and not always in the safest location. She noted that culverts have additional capacity and therefore if there is blockage, flow can continue. She stated that staff regularly inspect District responsible culverts and trash racks and residents can also report a problem.

Dave Vlasin commented that it is rare that there would be a clogged culvert, but if he does observe that, he does the cleaning. He commented that there would be risk to allowing residents to clean culverts. It was noted that if the culvert falls to a municipality, the message is passed to that entity.

The Board agreed that although this was a creative suggestion, there would be risk in allowing residents to get into these situations and cleaning should be left to staff.

Manager Skinner stated that perhaps they could focus on education and advising residents to report issues on the website.

Manager Gernes stated that perhaps it would be helpful to have an exchange with the CAC as that group does have some ideas for initiatives that could be discussed.

President Eisele agreed that it would be nice to talk about those ideas, whether at this meeting or a future meeting.

**10. NEW REPORTS AND/OR PRESENTATIONS (39:59)**

A. 2022 District Water Monitoring Report – Presentation by Eric Korte, Monitoring Coordinator

Erik Korte reviewed the objective of water quality monitoring and how that is completed for ponds and lakes. He also provided details on the trophic states index that is used along with the 2022 comparison. He also explained how the data is used over time to note trends.

President Eisele commented that residents can sometimes find this data confusing. The Board and staff discussed how the information could be simplified for the average reader.

Erin Anderson Wenz noted the recent changes in Kohlman Lake and provided details on the additional study that has begun. She explained the contaminants that the District reviews compared to the contaminants monitored by other agencies. She noted that fish advisories are found on the DNR or MPCA websites. She confirmed that staff could provide a link to those websites for residents to use.

Erik Korte reviewed the results from the different creeks and Beltline interceptor.

Erin Anderson Wenz explained when results would trigger additional study and/or action.

Erik Korte provided additional details on the results of the BMPs including the alum plant, Beam Avenue iron enhances sand filter, Frost Kennard spentlime chamber, and Willow Pond spentlime CMAC.

Erik Korte and Erin Anderson Wenz answered general questions of the Board and provided details on how the different BMPs are maintained. Erik Korte provided details on new monitoring studies and partnerships.

President Eisele asked what would be done in regard to the chloride that is prevalent throughout the system. Erik Korte stated that the District has been sampling for chloride in order to identify hotspots.

Manager Skinner commented that she would be in favor of looking more proactively as to what could be done, as prevention would be the best effort. Erin Anderson Wenz replied that identification of those hotspots is the first step as municipalities are not searching for those locations. President Eisele agreed that he would be interested in adding that topic to a future agenda for continued discussion.

Manager Gernes commented that this report was well written and easy to read. He stated that he would also be interested in the chloride hotspot data and bring that back to a future meeting. He stated that perhaps this would be an opportunity for public involvement.

The Board thanked Erik Korte for the great report.

B. Woodbury Target Store Retrofit – Concept Design Summary

Paige Ahlborg commented that this is the third and final Target project within the District. She commented that this is slated as a 2024 project. She provided an overview of the two concepts that were developed and stated that staff recommends moving forward with concept one.

Manager Skinner commented that she is pleased that Target was willing to add another store for continued projects.

President Eisele asked how the project would be funded. Paige Ahlborg replied that the project has been included in the proposed budget for 2024 within the targeted retrofit project and may also be eligible for stormwater impact dollars.

Manager Karp asked how final the design is for the rain garden boundaries. Erin Anderson Wenz stated that those details will come as they progress with the design.

## 11. ADMINISTRATOR'S REPORT (1:52:15)

### A. Meetings Attended

No comments.

### B. Upcoming Meetings and Dates

Paige Ahlborg noted the upcoming WaterFest event and the rescheduled July meeting.

### C. Board Action Log and Updates

President Eisele noted that interested Managers should alert staff if they would like to volunteer for WaterFest. He commented that it would be nice to have a presence of the Board at the event.

Laurann Kirschner provided clarification that the Board could all attend and volunteer, they just could not discuss District business.

President Eisele asked if there would be a carp fishing event this summer and the Board discussed that type of opportunity.

### D. Minnesota Watersheds Updates

No comments.

### E. Staffing Updates

No comments.

## 12. PROJECT AND PROGRAM STATUS REPORTS (2:00:35)

### *Project Feasibility Studies*

- A. Interim Emergency Response Planning
- B. Kohlman Creek Flood Risk Feasibility Study
- C. Ames Lake Area Flood Risk Reduction Planning Study
- D. Owasso Basin/North Star Estates Improvements
- E. Carver Ponds Improvement Study
- F. Resiliency Study for non-Beltline Tributary Areas
- G. Street Sweeping Study
- H. Wetlands Workshop, Education, and Planning

### *Research Projects*

- I. Kohlman Lake Aquatic Plants and Nutrients Study
- J. Shallow Lake Aeration Study

### *Project Operations*

- K. 2023 Automated Lake-Level Stations

### *Capital Improvements*

- L. Woodbury Target Store Stormwater Retrofit Projects
- M. Roosevelt Homes Targeted Retrofit Project
- N. Stewardship Grant Program Support
- O. Arbogast Stormwater Filtration BMP
- P. Pioneer Park Stormwater Reuse
- Q. Double Driveway Pond and Fish Creek Tributary Improvements

### *CIP Project Repair and Maintenance*

- R. 2023 CIP Maintenance and Repair Project
- S. 2023-2025 BMP Maintenance Program

### *Program Updates*

- T. Natural Resources Program

- U. Public Involvement and Education Program
- V. Citizen Advisory Committee

President Eisele asked for details on the noted upcoming open house related to Kohlman Creek flood risk feasibility study. Paige Ahlborg stated that the city is leading its own flood risk reduction study that is funded through a grant it received. She stated that the city will use the comments received in its report. She stated that most of the issues were local flooding issues that would fall to the city, but staff did schedule some visits for potential stewardship grant projects.

President Eisele referenced the street sweeping study and asked if staff has reached out to those cities. Paige Ahlborg stated that the plan is to come forward in June with recommendations on which cities to move forward with in 2023. She provided details on the process that was followed and the review that was done to ensure the best water quality benefit.

President Eisele stated that perhaps they should revisit the concept of a wetland workshop, noting the more in-depth discussion on wetlands at the last meeting. He referenced Item K and asked if something was done to respond to the concerns. Erik Korte commented that the stations are now functioning correctly and in the future, they will not go on line until staff can ensure the equipment is accurately functioning.

Manager Gernes asked if staff can obtain data on the different webpages visited. Paige Ahlborg confirmed that staff can track the page views. Manager Gernes stated that perhaps a volunteer survey could be added asking what people are looking for.

President Eisele commented that it is unfortunate that Bill retired noting that he will be missed. He asked if there was a celebration. Paige Ahlborg confirmed that there will be an event and provided those details. He commented that the CAC update was great and perhaps it would be helpful to have a CAC presentation at a future Board meeting.

Manager Gernes stated that perhaps it could be engaging to involve the public in stream and lake monitoring.

Stephanie Wang commented that the CAC will focus on the Adopt-A-Drain program at WaterFest and noted that there are other ideas to help engage the public.

### **13. MANAGER COMMENTS AND NEXT MONTH'S MEETING (2:14:26)**

President Eisele commented that the June agenda is heavy and asked for priority on the items that should come forward. He stated that he will talk to Tina Carstens to determine if there would be a simplified way to provide data on these topics.

Manager Karp commented that having links to previous Board meetings and background data would be helpful to bring them up to speed prior to the meeting.

### **14. ADJOURN**

Motion: Manager Skinner moved, Manager Gernes seconded, to adjourn the meeting at 8:51 p.m. Motion carried unanimously.

## RWMWD BUDGET STATUS REPORT

## Administrative &amp; Program Budget

Fiscal Year 2023

5/31/2023

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	\$7,000.00	-	-	375.00	\$6,625.00	5.36%
Manager	Manager expenses	4360	3,000.00	-	-	-	3,000.00	0.00%
Committees	Committee/Bd Mtg. Exp.	4365	3,500.00	-	257.24	1,712.37	1,787.63	48.92%
	<b>Sub-Total: Managers/Committees:</b>		<b>\$13,500.00</b>	<b>\$0.00</b>	<b>\$257.24</b>	<b>\$2,087.37</b>	<b>\$11,412.63</b>	<b>15.46%</b>
Employees	Staff salary/taxes/benefits	4010	1,860,000.00	-	153,453.44	718,562.70	1,141,437.30	38.63%
	Employee expenses	4020	15,000.00	-	797.57	2,220.95	12,779.05	14.81%
	District training & education	4350	75,000.00	-	214.96	1,562.45	73,437.55	2.08%
	<b>Sub-Total: Employees:</b>		<b>\$1,950,000.00</b>	<b>\$0.00</b>	<b>\$154,465.97</b>	<b>\$722,346.10</b>	<b>\$1,227,653.90</b>	<b>37.04%</b>
Administration/ Office	GIS system maint. & equip.	4170	10,000.00	-	-	1,257.25	8,742.75	12.57%
	Data Base/GIS Maintenance	4171	20,000.00	-	-	-	20,000.00	0.00%
	Equipment maintenance	4305	2,000.00	-	-	-	2,000.00	0.00%
	Telephone	4310	2,000.00	-	59.34	237.36	1,762.64	11.87%
	Office supplies	4320	7,000.00	-	755.32	2,735.73	4,264.27	39.08%
	IT/Internet/Web Site/Software Lic.	4325	85,000.00	-	7,052.14	35,159.40	49,840.60	41.36%
	Postage	4330	2,000.00	-	-	143.55	1,856.45	7.18%
	Printing/copying	4335	5,000.00	-	294.00	2,353.28	2,646.72	47.07%
	Dues & publications	4338	15,000.00	-	-	12,500.00	2,500.00	83.33%
	Janitorial/Trash Service	4341	15,000.00	-	-	6,360.86	8,639.14	42.41%
	Utilities/Bldg.Contracts	4342	30,000.00	-	2,026.72	3,792.55	26,207.45	12.64%
	Bldg/Site Maintenance	4343	125,000.00	-	3,609.00	74,129.28	50,870.72	59.30%
	Miscellaneous	4390	5,000.00	-	-	-	5,000.00	0.00%
	Insurance	4480	60,000.00	-	-	44,347.00	15,653.00	73.91%
	Office equipment	4703	100,000.00	-	2,544.01	4,240.57	95,759.43	4.24%
	Vehicle lease, maintenance	4810-40	20,000.00	-	1,047.77	2,449.22	17,550.78	12.25%
	<b>Sub-Total: Administration/Office:</b>		<b>\$503,000.00</b>	<b>\$0.00</b>	<b>\$17,388.30</b>	<b>\$189,706.05</b>	<b>\$313,293.95</b>	<b>37.71%</b>
Consultants/ Outside Services	Auditor/Accounting	4110	75,000.00	-	26,697.60	39,282.45	35,717.55	52.38%
	Engineering-administration	4121	132,000.00	-	6,209.00	30,459.43	101,540.57	23.08%
	Engineering-permit I&E	4122	10,000.00	-	-	-	10,000.00	0.00%
	Engineering-eng. review	4123	70,000.00	-	8,034.00	22,359.50	47,640.50	31.94%
	Engineering-permit review	4124	59,000.00	-	5,166.00	23,320.00	35,680.00	39.53%
	Project Feasibility Studies	4129	395,000.00	-	20,043.59	80,885.38	314,114.62	20.48%
	Attorney-permits	4130	5,000.00	-	-	-	5,000.00	0.00%
	Attorney-general	4131	40,000.00	-	2,225.00	9,795.00	30,205.00	24.49%
	Outside Consulting Services	4160	20,000.00	-	-	20,000.00	0.00%	0.00%
	<b>Sub-Total: Consultants/Outside Services:</b>		<b>\$806,000.00</b>	<b>\$0.00</b>	<b>\$68,375.19</b>	<b>\$206,101.76</b>	<b>\$599,898.24</b>	<b>25.57%</b>
Programs	Educational programming	4370	70,000.00	-	8,555.97	15,137.39	54,862.61	21.62%
	Communications & Marketing	4371	50,000.00	-	89.50	1,020.09	48,979.91	2.04%
	Events	4372	51,000.00	-	17,701.61	39,311.84	11,688.16	77.08%
	Water QM-Engineering	4520-30	240,000.00	-	18,515.85	51,417.25	188,582.75	21.42%
	Project operations	4650	200,000.00	-	4,810.11	11,536.10	188,463.90	5.77%
	SLMP/TMDL Studies	4661	142,000.00	-	-	503.00	141,497.00	0.35%
	Natural Resources/Keller Creek	4670-72	120,000.00	-	22,248.40	24,511.42	95,488.58	20.43%
	Outside Prog.Support/Weed Mgmt.	44683	57,000.00	-	-	14,869.33	42,130.67	26.09%
	Research Projects	4695	155,000.00	-	14,564.69	26,421.69	128,578.31	17.05%
	Health and Safety Program	4697	4,000.00	-	-	29.15	3,970.85	0.73%
	<b>Sub-Total: Programs:</b>		<b>\$1,089,000.00</b>	<b>\$0.00</b>	<b>\$86,486.13</b>	<b>\$184,757.26</b>	<b>\$904,242.74</b>	<b>16.97%</b>
<b>GENERAL FUND TOTAL</b>			<b>\$4,361,500.00</b>	<b>\$0.00</b>	<b>\$326,972.83</b>	<b>\$1,304,998.54</b>	<b>\$3,056,501.46</b>	<b>29.92%</b>
CIP's	CIP Project Repair & Maintenance	516	1,500,000.00	-	90,055.80	554,312.52	945,687.48	36.95%
	Targeted Retrofit Projects	518	1,500,000.00	-	29,848.76	178,403.98	1,321,596.02	11.89%
	Flood Risk Reduction Fund	520	5,200,000.00	-	15,103.13	220,059.56	4,979,940.44	4.23%
	Debt Services-96-97 Beltline/MM/Battle Creek	526	395,404.00	-	-	278,086.78	117,317.22	70.33%
	Stewardship Grant Program Fund	529	1,128,000.00	-	13,665.50	53,965.12	1,074,034.88	4.78%
	Double Driveway Water Quality Optimization	537	675,000.00	-	15,681.76	32,641.99	642,358.01	4.84%
	Wetland Restoration Projects	540	500,000.00	-	-	-	500,000.00	0.00%
<b>CIP BUDGET TOTAL</b>			<b>\$10,898,404.00</b>	<b>\$0.00</b>	<b>\$164,354.95</b>	<b>\$1,317,469.95</b>	<b>\$9,580,934.05</b>	<b>12.09%</b>
<b>TOTAL BUDGET</b>			<b>\$15,259,904.00</b>	<b>\$0.00</b>	<b>\$491,327.78</b>	<b>\$2,622,468.49</b>	<b>\$12,637,435.51</b>	<b>17.19%</b>

## Current Fund Balances:

Fund:	Unaudited Beginning Fund Balance @ 12/31/22	Fund Transfers	Year to date Revenue	Current Month Expenses	Year to Date Expense	Unaudited Fund Balance @ 05/31/23
101 - General Fund	\$2,313,604.42	-	176,776.33	326,972.83	1,304,998.54	1,185,382.21
516 - CIP Project Repair & Maintenance	1,143,456.57	-	12,472.86	90,055.80	554,312.52	601,616.91
518 - Targeted Retrofit Projects	164,101.49	-	70,147.50	29,848.76	178,403.98	55,845.01
520 - Flood Damage Reduction Fund	5,075,970.05	-	43,065.56	15,103.13	220,059.56	4,898,976.05
526 - Debt Services-96-97 Beltline/MM/Beltline-Battle Creek Tunnel Repair	551,908.60	-	-	-	278,086.78	273,821.82
529 - Stewardship Grant Program Fund	428,736.05	-	-	13,665.50	53,965.12	374,770.93
536 - Stormwater Impact Fund	358,950.00	-	782,281.00	-	-	1,141,231.00
537 - Double Driveway Water Quality Optimization Implementation	-	-	-	15,681.76	32,641.99	(32,641.99)
540 - Wetland Restoration Projects	498,036.00	-	-	-	-	498,036.00
580 - Contingency Fund	1,465,487.00	-	-	-	-	1,465,487.00
<b>Total District Fund Balance</b>	<b>\$12,000,250.18</b>	<b>\$0.00</b>	<b>\$ 1,084,743.25</b>	<b>\$ 491,327.78</b>	<b>\$2,622,468.49</b>	<b>\$10,462,524.94</b>

**Ramsey Washington Metro Watershed Dist.**  
**Check Register**  
**For the Period From May 1, 2023 to May 31, 2023**

Check #	Date	Payee ID	Invoice #	Payee	Description	Amount
EFT	05/03/23	hea002	Jun-23	HealthPartners	Employee Benefits	\$15,330.02
EFT	05/01/23	met008	May-23	MetLife-Group Benefits	Employee Benefits	2,088.05
73765	05/01/23	com004	April 16, 2023	Comcast	Utilities/Building Service Cpm	93.48
73766	05/01/23	ele002	Apr 23	Electro Watchman	Building Maintance	16,181.56
73767	05/01/23	kor001	Apr 23	Eric Korte	Employee Benefits	160.00
73768	05/12/23	aws001	S1335957-050123	AWS Service Center	Utilities/Building Services Contracts	321.59
73769	05/12/23	bar002	1/1-5/1	Bill Bartodziej	Employee Benefits	381.57
73770	05/12/23	bfg001	2286919-00	BFG Supply Co., LLC	Education	18.38
73791	05/12/23	cit001	007734-000; 0077334-001	City of Little Canada	Utilities/Building Services Contracts	125.25
73792	05/12/23	cit010	13313	City of White Bear Lake	GIS System Maintenance and Equipment	1,257.25
73793	05/12/23	del001	10664163222	Dell Marketing, L.P.	Equipment	0.09
73794	05/12/23	don001	May 23	Matthew Doneux	Employee Benefits	80.50
73795	05/12/23	far002	Jan 26, 2023	Farnsworth Aerospace Magnet	Education	262.50
73796	05/12/23	gi001	229644	Gilbert Mechanical Contractors, Inc.	Project Operations	1,207.57
73797	05/12/23	hom001	4/28/23	Home Depot Credit Services	Natural Resources Program	940.86
73798	05/12/23	mid003	601517	Roseville Midway Ford	Vehicle Maintenance	315.24
73799	05/12/23	nat006	213911	National Band & Tag Company	Natural Resources Program	88.00
73800	05/12/23	nsp001	826570189	Xcel Energy	Utilities/Building Services Contracts	844.28
73801	05/12/23	pra001	23114090000	Prairie Moon Nursery, Inc.	Events	244.00
73802	05/12/23	pre003	319407710	Premium Waters, Inc.	Utilities/Building Services Contracts	31.00
73803	05/12/23	red003	20230510043028	Red Wing Business Advantage Account	Employee Benefits	186.99
73804	05/12/23	sai001	4008	Saint Paul Media	Communications and Marketing	50.00
73805	05/12/23	shi001	B16676170	SHI International Corp.	Equipment	2,543.92
73806	05/12/23	stu001	2019737	Studio Lola	Stewardship Grant Program	337.50
73807	05/12/23	usb005	500500632	US Bank Equipment Finance	Copier Lease	294.00
70289	05/25/23	hir001	May 23	Hirshfield's	Building and Site Maintenance	2,075.00
70290	05/25/23	mbc001	1157	Mbohn Consulting, LLC	Events	5,000.00
73808	05/30/23	ada002	3655354	Adam's Pest Control, Inc.	Utilities/Building Services Contracts	94.72
73809	05/30/23	ame006	5379	American Indian Magnet	Education	239.87
73810	05/30/23	asi002	WF23	Asian Invasion	Events	100.00
73811	05/30/23	bar001	April 15 to May 19, 2023	Barr Engineering	April Engineering Expense	163,131.66
73812	05/30/23	bat002	P62622200	Batteries Plus Bulbs	Water Quality Monitoring - Staff	647.70
73813	05/30/23	ben003	WF23	Scott Benson	Events	250.00
73814	05/30/23	cad001	19516850	Zayo Group, LLC	Project Operations	193.64
73815	05/30/23	car007	RWMWD 5-24-23	Carp Solutions, LLC	Natural Resources Program	18,581.90
73816	05/30/23	cen004	WF23	Center for Hmong Arts & Talent	Events	1,500.00
73817	05/30/23	chi004	WF23	Chicks on Sticks	Events	150.00
73818	05/30/23	cit024	23-09 CS	City of Vadnais Heights	Stewardship Grant Program	677.50
73819	05/30/23	com004	May 16, 2023	Comcast	Utilities/Building Services Contracts	93.48
73820	05/30/23	dau001	Apr-May/2023	Jennifer A. Dauer	Employee Expenses, Natural Resources Prog.	142.84
73821	05/30/23	deb001	WF23	Deb DeBellis	Events	300.00
73822	05/30/23	dnd001	WF23	DND Goodies	Events	100.00
73823	05/30/23	fit002	May-23	Mary Fitzgerald	Employee Benefits, Expenses	105.52
73824	05/30/23	fit003	May-23	Emily F. Fitzgerald	Employee Benefits	80.00
73825	05/30/23	fle001	105005; 104966	Flemings Auto Service	Vehicle Maintenance	128.74
73826	05/30/23	fre001	1192	Freshwater Society	Education	1,500.00
73827	05/30/23	gal001	May 24, 2023	Galowitz Olson, PLLC	Attorney General	2,225.00
73828	05/30/23	gra001	WF23	Rick Gravrok	Events	200.00
73829	05/30/23	haz002	5233	Hazel Park Preparatory Academy	Education	224.16
73830	05/30/23	hom001	5/28/2023	Home Depot Credit Services	Water Quality Monitoring-Staff	253.28
73831	05/30/23	ima001	164253	Image Printing & Graphics	Events	45.53
73832	05/30/23	inn002	IN4180060	Innovative Office Solutions LLC	Office Supplies	48.99
73833	05/30/23	inn003	15857	Innovational Water Solutions, Inc.	Utilities/Building Services Contracts	516.40
73834	05/30/23	int001	W23040487	Office of MN, IT Services	Telephone	59.34
73835	05/30/23	jad001	WF23	Anita Jader Photography	Events	200.00
73836	05/30/23	joh008	WF23	Linda John	Events	300.00
73837	05/30/23	kpc001	WF23	KP Concessions	Events	100.00
73838	05/30/23	kub001	May-23	Kyle W. Kubitza	Employee Benefits, Expenses	165.28
73839	05/30/23	lea003	15-1006	L. Tracy Leavenworth	Education	5,397.55
73840	05/30/23	lio001	WF23	St. Paul East Parks Lions	Events	496.50
73841	05/30/23	mbc001	1160	Mbohn Consulting, LLC	Events	5,000.00
73842	05/30/23	mcd003	WF23	Terry McDaniel	Events	150.00
73843	05/30/23	mel001	April/May 2023	Michelle L. Melser	Employee Benefits, Expenses	469.87
73844	05/30/23	met013	1244	Metro - INET	Roseville IT Services/Web Site/Software/Licenses	6,859.00
73845	05/30/23	mex001	WF23	Mexica Aztec	Events	500.00
73846	05/30/23	mil003	Progress Payment #	Miller Excavating, Inc.	Construction Improvements/Project Main. & Rep.	54,630.94
73847	05/30/23	nin001	WF23	Nine Yum Yum	Events	100.00
73848	05/30/23	nin002	2023-064	NineNorth	Stewardship Grant Program	265.00
73849	05/30/23	nsp001	May-23	Xcel Energy	Building/Site Maintance	2,024.69
73850	05/30/23	pac001	May-23	Pace Analytical Services, Inc.	Water Quality Monitoring - Staff	7,161.00
73851	05/30/23	pas002	April/May 2023	Carol Passi	Employee Benefits, Expenses	286.93
73852	05/30/23	pem002	13633	Pember Companies, Inc.	Project Operations	800.00
73853	05/30/23	pet003	May-23	Nicole A. Peterson	Employee Expenses	7.21
73854	05/30/23	pet004	April/May 2023	Ashley N. Petel	Employee Expenses	41.25

**Ramsey Washington Metro Watershed Dist.**  
**Check Register**  
**For the Period From May 1, 2023 to May 31, 2023**

Check #	Date	Payee ID	Invoice #	Payee	Description	Amount
73855	05/30/23	qwe001	May 10, 2023	CenturyLink	Project Operations	271.29
73856	05/30/23	rec002	WF23-2nd half payment	Rectangle Designs, LLC.	Events	1,250.00
73857	05/30/23	red002	150478085	Redpath & Company, LLC.	Accounting	26,535.00
73858	05/30/23	sal001	22-34 CS	Breanne Salle	Stewardship Grant Program	3,300.00
73859	05/30/23	san003	May 23, 2023	Sandstrom Land Management	Construction Improvements/Project Main. & Rep.	4,825.00
73860	05/30/23	sim001	May-23	Emily Simmons	Employee Benefits, Expenses	176.44
73861	05/30/23	sod001	May-23	Nicole Soderholm	Employee Benefits, Expenses	55.72
73862	05/30/23	stu001	2019740	Studio Lola	Events	1,342.25
73863	05/30/23	til002	May-23	Joseph S. Tillotson	Employee Benefits, Expenses	136.62
73864	05/30/23	tim002	M28234	Timesaver Off-Site Secretarial, Inc.	Committee/Board Meeting Expenses	272.25
73865	05/30/23	tro002	23-5	Cathy Troendle	Education	589.61
73866	05/30/23	usb002	May 2023 Statement	U.S. Bank	Apr/May Credit Card Expense	7,766.85
73867	05/30/23	voy001	8692934232321	US Bank Voyager Fleet Sys.	Vehicle Fuel	603.79
73868	05/30/23	was002	6056	Washington Conservation District	Stewardship Grant Program	841.50
73869	05/30/23	you002	WF23	Youniverse Waffles	Events	100.00
<b>Total</b>						<b><u>\$375,070.41</u></b>
EFT	05/12/23	myp001	05/12/23	May 12th Payroll	4110-101-000	84.45
EFT	05/26/23	myp001	05/26/23	May 26th Payroll	4110-101-000	78.15
Dir.Dep.	05/12/23	---	Payroll Expense-Net	May 12th Payroll	4010-101-000	45,301.50
EFT	05/12/23	int002	Internal Rev.Serv.	May 12th Federal Withholding	2001-101-000	19,629.55
EFT	05/12/23	mnd001	MN Revenue	May 12th State Withholding	2003-101-000	3,684.60
EFT	05/12/23	per001	PERA	May 12th PERA	2011-101-000	6,323.94
EFT	05/12/23	emp002	Empower Retirement	Employee Def. Comp. Contributions	2016-101-000	2,653.00
EFT	05/12/23	emp002	Empower Retirement	Employee IRA Contributions	2018-101-000	857.00
Dir.Dep.	05/26/23	---	Payroll Expense-Net	May 26th Payroll	4010-101-000	30,220.93
EFT	05/26/23	int002	Internal Rev.Serv.	May 26th Federal Withholding	2001-101-000	10,374.64
EFT	05/26/23	mnd001	MN Revenue	May 26th State Withholding	2003-101-000	1,701.25
EFT	05/26/23	per001	PERA	May 26th PERA	2011-101-000	5,688.42
EFT	05/26/23	emp002	Empower Retirement	Employee Def. Comp. Contributions	2016-101-000	1,653.00
EFT	05/26/23	emp002	Empower Retirement	Employee IRA Contributions	2018-101-000	857.00
<b>Payroll/Benefits:</b>						<b><u>\$129,107.43</u></b>
<b>Total</b>						<b>Accounts Payable/Payroll/Benefits: <u>\$504,177.84</u></b>



**Ramsey Washington Metro Watershed Dist.**  
**Cash Disbursements Journal**  
**For the Period From May 1, 2023 to May 31, 2023**

Date	Check #	Vendor ID	Name	Account ID	Description	Amount	
05/12/23	EFT	met008	HealthPartners	4040-101-000	Employee Benefits	\$15,330.02	
05/12/23	EFT	hea002	MetLife-Group Benefits	4040-101-000	Employee Benefits	2,088.05	
05/03/23	73765	com004	Comcast	4342-101-000	Utilities/Building Service Cpm	93.48	
05/03/23	73766	ele002	Electro Watchman	4343-101-000	Building Maintance	16,181.56	
05/03/23	73767	kor001	Eric Korte	4040-101-000	Employee Benefits	160.00	
05/12/23	73768	aws001	AWS Service Center	4342-101-000	Utilities/Building Services Contracts	321.59	
05/12/23	73769	bar002	Bill Bartodziej			381.57	
				4020-101-000	Employee Expense		43.88
				4040-101-000	Employee Benefits		337.69
05/12/23	73770	bfg001	BFG Supply Co., LLC	4370-101-000	Education	18.38	
05/12/23	73791	cit001	City of Little Canada	4342-101-000	Utilities/Building Services Contracts	125.25	
05/12/23	73792	cit010	City of White Bear Lake	4170-101-000	GIS System Maintenance and Equipment	1,257.25	
05/12/23	73793	del001	Dell Marketing, L.P.	4703-101-000	Office Equipment	0.09	
05/12/23	73794	don001	Matthew Doneux	4040-101-000	Employee Benefits	80.50	
05/12/23	73795	far002	Farnsworth Aerospace Magnet	4370-101-000	Educational Program	262.50	
05/12/23	73796	gil001	Gilbert Mechanical Contractors, Inc.	4650-101-000	Project Operations	1,207.57	
05/12/23	73797	hom001	Home Depot Credit Services			940.86	
				4670-101-000	Natural Resources Program		747.18
				4530-101-000	Water QM Staff		193.68
05/12/23	73798	mid003	Roseville Midway Ford	4820-101-000	Vehicle Maintenance	315.24	
05/12/23	73799	nat006	National Band & Tag Company	4670-101-000	Natural Resources Program	88.00	
05/12/23	73800	nsp001	Xcel Energy	4342-101-000	Utilities/Building Services Contracts	844.28	
05/12/23	73801	pra001	Prairie Moon Nursery, Inc.	4372-101-000	Events	244.00	
05/12/23	73802	pre003	Premium Waters, Inc.	4342-101-000	Utilities/Building Services Contracts	31.00	
05/12/23	73803	red003	Red Wing Business Advantage Account	4040-101-000	Employee Benefits	186.99	
05/12/23	73804	sai001	Saint Paul Media	4371-101-000	Communications and Marketing	50.00	
05/12/23	73805	shi001	SHI International Corp.	4703-101-000	Equipment	2,543.92	
05/12/23	73806	stu001	Studio Lola	4682-529-000	Stewardship Grant Program	337.50	
05/12/23	73807	usb005	US Bank Equipment Finance	4335-101-000	Copier Lease	294.00	
05/25/23	70289	hir001	Hirshfield's	4343-101-000	Building Maintance	2,075.00	
05/25/23	70290	mbo001	Mbohn Consulting, LLC	4372-101-000	Events	5,000.00	
05/30/23	73808	ada002	Adam's Pest Control, Inc.	4342-101-000	Utilities/Building Services Contracts	94.72	
05/30/23	73809	ame006	American Indian Magnet	4370-101-000	Education	239.87	
05/30/23	73810	asi002	Asian Invasion	4372-101-000	Events	100.00	

**Ramsey Washington Metro Watershed Dist.**  
**Cash Disbursements Journal**  
**For the Period From May 1, 2023 to May 31, 2023**

Date	Check #	Vendor ID	Name	Account ID	Description	Amount
05/30/23	73811	bar001	Barr Engineering			163,131.66
				4121-101-000	Engineering Admin	6,209.00
				4123-101-000	Engineer Eng. Rev	8,034.00
				4129-101-000	Project Feasability	11,389.09
				4129-101-000	Project Feasability	647.50
				4128-520-000	Engineering-Flood Damage	12,960.50
				4129-101-000	Project Feasability	3,688.50
				4129-101-000	Project Feasability	1,065.00
				4129-101-000	Project Feasability	3,006.00
				4129-101-000	Project Feasability	247.50
				4520-101-000	WQM-Engineering	4,911.50
				4520-101-000	WQM-Engineering	1,456.00
				4520-101-000	WQM-Engineering	1,360.00
				4124-101-000	Eng. Permit Review	5,166.00
				4695-101-000	Research Projects	1,191.50
				4695-101-000	Research Projects	10,178.81
				4695-101-000	Research Projects	3,194.38
				4650-101-000	Project Operations	2,175.00
				4128-520-000	Engineering-Flood Damage	1,877.00
				4128-518-000	Engineering -Targeted Retrofit	7,540.00
				4128-518-000	Engineering -Targeted Retrofit	735.00
				4682-529-000	Stewardship Grant Program	8,244.00
				4128-518-000	Engineering -Targeted Retrofit	8,388.26
				4128-518-000	Engineering -Targeted Retrofit	13,185.50
				4129-537-000	Driveway Fish Creek Tributary	15,681.76
				4128-516-000	Eng. Projects-Maint & Repair	21,472.86
				4128-516-000	Eng. Projects-Maint & Repair	4,577.00
				4128-516-000	Eng. Projects-Maint & Repair	4,550.00
05/30/23	73812	bat002	Battteries Plus Bulbs	4530-101-000	Water Quality Monitoring - Staff	647.70
05/30/23	73813	ben003	Scott Benson	4372-101-000	Events	250.00
05/30/23	73814	cad001	Zayo Group, LLC	4650-101-000	Project Operations	193.64
05/30/23	73815	car007	Carp Solutions, LLC	4670-101-000	Natural Resources Program	18,581.90
05/30/23	73816	cen004	Center for Hmong Arts & Talent	4372-101-000	Events	1,500.00
05/30/23	73817	chi004	Chicks on Sticks	4372-101-000	Events	150.00
05/30/23	73818	cit024	City of Vadnais Heights	4682-529-000	Stewardship Grant Program	677.50
05/30/23	73819	com004	Comcast	4342-101-000	Utilities/Building Services Contracts	93.48
05/30/23	73820	dau001	Jennifer A. Dauer			142.84
				4670-101-000	Natural Resources Program	10.22
				4020-101-000	Employee Expense	132.62
05/30/23	73821	deb001	Deb DeBellis	4372-101-000	Events	300.00
05/30/23	73822	dnd001	DND Goodies	4372-101-000	Events	100.00
05/30/23	73823	fit002	Mary Fitzgerald			105.52
				4040-101-000	Employee Benefits	57.05
				4020-101-000	Employee Expenses	48.47
05/30/23	73824	fit003	Emily F. Fitzgerald	4040-101-000	Employee Benefits	80.00

**Ramsey Washington Metro Watershed Dist.**  
**Cash Disbursements Journal**  
**For the Period From May 1, 2023 to May 31, 2023**

Date	Check #	Vendor ID	Name	Account ID	Description	Amount	
05/30/23	73825	fle001	Flemings Auto Service	4820-101-000	Vehicle Maintenance	128.74	
05/30/23	73826	fre001	Freshwater Society	4370-101-000	Education	1,500.00	
05/30/23	73827	gal001	Galowitz Olson, PLLC	4131-101-000	Attorney General	2,225.00	
05/30/23	73828	gra001	Rick Gravrok	4372-101-000	Events	200.00	
05/30/23	73829	haz002	Hazel Park Preparatory Academy	4370-101-000	Education	224.16	
05/30/23	73830	hom001	Home Depot Credit Services			253.28	
				4670-101-000	Natural Resources Program		116.48
				4530-101-000	Water Quality Monitoring - Staff		136.80
05/30/23	73831	ima001	Image Printing & Graphics	4372-101-000	Events	45.53	
05/30/23	73832	inn002	Innovative Office Solutions LLC	4320-101-000	Office Supplies	48.99	
05/30/23	73833	inn003	Innovational Water Solutions, Inc.	4342-101-000	Utilities/Building Service Contracts	516.40	
05/30/23	73834	int001	Office of MN, IT Services	4310-101-000	Telephone	59.34	
05/30/23	73835	jad001	Anita Jader Photography	4372-101-000	Events	200.00	
05/30/23	73836	joh008	Linda John	4372-101-000	Events	300.00	
05/30/23	73837	kpc001	KP Concessions	4372-101-000	Events	100.00	
05/30/23	73838	kub001	Kyle W. Kubitz			165.28	
				4040-101-000	Employee Benefits		80.00
				4020-101-000	Employee Expenses		73.36
				4530-101-000	Water Quality Monitoring - Staff		11.92
05/30/23	73839	lea003	L. Tracy Leavenworth	4370-101-000	Education	5,397.55	
05/30/23	73840	lio001	St. Paul East Parks Lions	4372-101-000	Events	496.50	
05/30/23	73841	mbc001	Mbohn Consulting, LLC	4372-101-000	Events	5,000.00	
05/30/23	73842	mcd003	Terry McDaniel	4372-101-000	Events	150.00	
	73843	mel001	Michelle L. Melser			469.87	
				4020-101-000	Employee Expenses		119.87
				4343-101-000	Building/Site Maintenance		350.00
05/30/23	73844	met013	Metro - INET	4325-101-000	Roseville IT Services/Web Site/Software/Licenses	6,859.00	
05/30/23	73845	mex001	Mexica Aztec	4372-101-000	Events	500.00	
05/30/23	73846	mil003	Miller Excavating, Inc.	4630-516-000	Construction Improvements/Project Main. & Rep.	54,630.94	
05/30/23	73847	nin001	Nine Yum Yum	4372-101-000	Events	100.00	
05/30/23	73848	nin002	NineNorth	4682-529-000	Stewardship Grant Program	265.00	
05/30/23	73849	nsp001	Xcel Energy			2,024.69	
				4343-101-000	Building/Site Maintenance		1,026.13
				4530-101-000	Water Quality Monitoring - Staff		732.93
				4650-520-000	Project Operations/Flood Damage Reduction Fund		265.63
05/30/23	73850	pac001	Pace Analytical Services, Inc.	4530-101-000	Water Quality Monitoring - Staff	7,161.00	
05/30/23	73851	pas002	Carol Passi			286.93	
				4020-101-000	Employee Expenses		167.68
				4040-101-000	Employee Benefits		40.00
				4370-101-000	Education		79.25
05/30/23	73852	pem002	Pember Companies, Inc.	4650-101-000	Project Operations	800.00	

**Ramsey Washington Metro Watershed Dist.**  
**Cash Disbursements Journal**  
**For the Period From May 1, 2023 to May 31, 2023**

Date	Check #	Vendor ID	Name	Account ID	Description	Amount	
05/30/23	73853	pet003	Nicole A. Peterson	4020-101-000	Employee Expenses	7.21	
05/30/23	73854	pet004	Ashley N. Petel			41.25	
				4020-101-000	Employee Expenses		36.03
				4670-101-000	Natural Resources Program		5.22
05/30/23	73855	qwe001	CenturyLink	4650-101-000	Project Operations	271.29	
05/30/23	73856	rec002	Rectangle Designs, LLC.	4372-101-000	Events	1,250.00	
05/30/23	73857	red002	Redpath & Company, LLC.	4110-101-000	Accounting	26,535.00	
05/30/23	73858	sal001	Breanne Salle	4682-529-000	Stewardship Grant Program	3,300.00	
05/30/23	73859	san003	Sandstrom Land Management	4630-516-000	Construction Improvements/Project Main. & Rep.	4,825.00	
05/30/23	73860	sim001	Emily Simmons			176.44	
				4020-101-000	Employee Expenses		136.44
				4040-101-000	Employee Benefits		40.00
05/30/23	73861	sod001	Nicole Soderholm			55.72	
				4040-101-000	Employee Benefits		40.00
				4020-101-000	Employee Expenses		15.72
05/30/23	73862	stu001	Studio Lola	4372-101-000	Events	1,342.25	
05/30/23	73863	til002	Joseph S. Tillotson			136.62	
				4040-101-000	Employee Benefits		40.00
				4020-101-000	Employee Expenses		34.72
				4670-101-000	Natural Resources Program		61.90
05/30/23	73864	tim002	Timesaver Off-Site Secretarial, Inc.	4365-101-000	Committee/Board Meeting Expenses	272.25	
05/30/23	73865	tro002	Cathy Troendle	4370-101-000	Education	589.61	
05/30/23	73866	usb002	U.S. Bank			7,766.85	
				4650-101-000	Project Operations		162.61
				4530-101-000	Water Quality Monitoring - Staff		161.05
				4343-101-000	Building and Site Maintenance		88.40
				4320-101-000	Office Supplies		124.88
				4320-101-000	Office Supplies		38.45
				4320-101-000	Office Supplies		39.44
				4320-101-000	Office Supplies		52.00
				4320-101-000	Office Supplies		52.80
				4320-101-000	Office Supplies		10.22
				4320-101-000	Office Supplies		92.89
				4320-101-000	Office Supplies		49.99
				4372-101-000	Events		233.33
				4320-101-000	Office Supplies		41.84
				4325-101-000	Roseville IT Services/Web Site/Software/Licenses		93.15
				4670-101-000	Natural Resources Program		2,637.50
				4040-101-000	Employee Benefits		162.85
				4325-101-000	Roseville IT Services/Web Site/Software/Licenses		99.99
				4320-101-000	Office Supplies		97.00
				4320-101-000	Office Supplies		25.99
				4343-101-000	Building and Site Maintenance		39.48

**Ramsey Washington Metro Watershed Dist.**  
**Cash Disbursements Journal**  
**For the Period From May 1, 2023 to May 31, 2023**

Date	Check #	Vendor ID	Name	Account ID	Description	Amount
				4040-101-000	Employee Benefits	178.94
				4530-101-000	Water Quality Monitoring - Staff	1,496.00
				4040-101-000	Employee Benefits	728.00
				4530-101-000	Water Quality Monitoring - Staff	186.00
				4370-101-000	Education	60.70
				4370-101-000	Education	183.95
				4343-101-000	Building and Site Maintenance	29.99
				4320-101-000	Office Supplies	17.51
				4372-101-000	Events	40.00
				4320-101-000	Office Supplies	38.10
				4371-101-000	Marketing and Communications	39.50
				4040-101-000	Employee Benefits	162.85
				4350-101-000	Training and Education	107.48
				4320-101-000	Office Supplies	23.28
				4350-101-000	Training and Education	107.48
				4530-101-000	Water Quality Monitoring - Staff	61.27
				4320-101-000	Office Supplies	1.94
05/30/23	73867	voy001	US Bank Voyager Fleet Sys.	4830-101-000	Vehicle Fuel	603.79
05/30/23	73868	was002	Washington Conservation District	4682-529-000	Stewardship Grant Program	841.50
05/30/23	73869	you002	Youniverse Waffles	4372-101-000	Events	100.00
	<b>Total</b>					<b>\$375,070.41</b>
05/12/23	EFT	myp001	May 12th Payroll	4110-101-000	May 12th Payroll	84.45
05/26/23	EFT	myp001	May 26th Payroll	4110-101-000	May 26th Payroll	78.15
05/12/23	Dir.Dep.	---	May 12th Payroll	4010-101-000	May 12th Payroll	45,301.50
05/12/23	EFT	int002	May 12th Federal Withholding	2001-101-000	May 12th Federal Withholding	19,629.55
05/12/23	EFT	mnd001	May 12th State Withholding	2003-101-000	May 12th State Withholding	3,684.60
05/12/23	EFT	per001	May 12th PERA	2011-101-000	May 12th PERA	6,323.94
05/12/23	EFT	emp002	Employee Def. Comp. Contributions	2016-101-000	Employee Def. Comp. Contributions	2,653.00
05/12/23	EFT	emp002	Employee IRA Contributions	2018-101-000	Employee IRA Contributions	857.00
05/26/23	Dir.Dep.	---	May 26th Payroll	4010-101-000	May 26th Payroll	30,220.93
05/26/23	EFT	int002	May 26th Federal Withholding	2001-101-000	May 26th Federal Withholding	10,374.64
05/26/23	EFT	mnd001	May 26th State Withholding	2003-101-000	May 26th State Withholding	1,701.25
05/26/23	EFT	per001	May 26th PERA	2011-101-000	May 26th PERA	5,688.42
05/26/23	EFT	emp002	Employee Def. Comp. Contributions	2016-101-000	Employee Def. Comp. Contributions	1,653.00
05/26/23	EFT	emp002	Employee IRA Contributions	2018-101-000	Employee IRA Contributions	857.00
					<b>Payroll/Benefits:</b>	<b>\$129,107.43</b>
	<b>Total</b>				<b>Accounts Payable/Payroll/Benefits:</b>	<b>\$504,177.84</b>



**Summary of Professional Engineering Services During the Period  
April 15, 2023 through May 19, 2023**

	Total Engineering Budget (2023)	Total Fees to Date (2023)	Budget Balance (2023)	Fees During Period	District Accounting Code	Plan Implementation Task Number
<b>Engineering Administration</b>						
General Engineering Administration	\$87,000.00	\$30,459.43	\$56,540.57	\$6,209.00	4121-101	DW-13
RWMWD Health and Safety/ERTK Program	\$2,000.00	\$0.00	\$2,000.00	\$0.00	4697-101	DW-13
Educational Program/Educational Forum Assistance	\$20,000.00	\$702.50	\$19,297.50	\$0.00	4129-101	DW-11
Topical Workshop, Education, and Planning	\$25,000.00	\$3,159.00	\$21,841.00	\$0.00	4129-101	DW-13
<b>Engineering Review</b>						
Engineering Review	\$70,000.00	\$22,359.50	\$47,640.50	\$8,034.00	4123-101	DW-13
<b>Project Feasibility Studies</b>						
Emergency Response Plans (communication with cities from 2021 and 2022 efforts)	\$15,000.00	\$920.00	\$14,080.00	\$0.00	4129-101	DW-19
Kohlman Creek flood damage reduction feasibility study	\$75,000.00	\$21,834.51	\$53,165.49	\$11,389.09	4129-101	DW-9, KC-2, BELT-3
Kohlman Creek- Wakefield Lake Diversion Planning and Design	\$111,600.00	\$10,000.50	\$101,599.50	\$0.00	4129-101	DW-9, KC-2, BELT-3
Improvements to County Ditch 17	\$5,000.00	\$250.00	\$4,750.00	\$0.00	4129-101	DW-9, BELT-3
Improvements to Phalen Village	\$5,000.00	\$400.00	\$4,600.00	\$0.00	4129-101	DW-9, BELT-3
Ames Lake Technical Assistance and Project Planning with St. Paul	\$40,000.00	\$2,082.50	\$37,917.50	\$647.50	4129-101	DW-9, BELT-3
Resiliency Study for non-Beltline tributary areas (pre-planning study and evaluation of existing data)	\$150,000.00	\$30,476.50	\$119,523.50	\$12,960.50	4128-520	DW-9
Evaluate compliance with South Metro Mississippi River TSS TMDL	\$2,000.00	\$527.00	\$1,473.00	\$0.00	4129-101	MR-2
Owasso Basin area/North Star Estates improvements (with City of Little Canada)	\$30,000.00	\$19,283.87	\$10,716.13	\$3,688.50	4129-101	GC-3
Street Sweeping	\$20,000.00	\$10,958.00	\$9,042.00	\$1,065.00	4129-101	DW-6, DW-15
Retrofit Inventory	\$20,000.00	\$6,144.50	\$13,855.50	\$3,006.00	4129-101	DW-17, DW-20
Wetland Restoration Workshop, Education, and Planning	\$5,000.00	\$4,623.00	\$377.00	\$247.50	4129-101	DW-8, DW-13
Contingency*	\$30,000.00				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	\$90.00	\$9,910.00	\$0.00	4520-101	DW-2
Annual WQ Report Assistance	\$12,000.00	\$8,776.50	\$3,223.50	\$4,911.50	4520-101	DW-2
Special Project BMP Monitoring	\$25,000.00	\$4,625.50	\$20,374.50	\$1,456.00	4520-101	DW-12
Grass Lake Berm Wetland Monitoring	\$12,000.00	\$10,840.00	\$1,160.00	\$1,360.00	4520-101	DW-5, DW-8
Battle Creek Monitoring to address TMDL	\$15,000.00	\$0.00	\$15,000.00	\$0.00	4520-101	DW-1, DW-2
<b>Permit Processing, Inspection and Enforcement</b>						
Permit Application Inspection and Enforcement	\$10,000.00	\$0.00	\$10,000.00	\$0.00	4122-101	DW-7
Permit Application Review	\$59,000.00	\$18,947.00	\$40,053.00	\$5,166.00	4124-101	DW-7
<b>Lake Studies/TMDL Reports</b>						
West Vadnais Lake Incorporation	\$15,000.00	\$75.00	\$14,925.00	\$0.00	4661-101	DW-2
2023 Grant Applications	\$40,000.00	\$0.00	\$40,000.00	\$0.00	4661-101	DW-13
WMP Updates - Including Implementation Plan Updates if needed	\$20,000.00	\$0.00	\$20,000.00	\$0.00	4661-101	DW-13
Prioritization of water quality projects from subwatershed feasibility studies	\$5,000.00	\$39.00	\$4,961.00	\$0.00	4661-101	DW-20
Carver Ponds Internal Load Reduction	\$12,000.00	\$389.00	\$11,611.00	\$0.00	4661-101	DW-12
Contingency for Lake Studies	\$22,500.00	\$0.00	\$22,500.00	\$0.00		
<b>Research Projects</b>						
New Technology Mini Case Studies (average 6 per year)	\$15,000.00	\$5,116.50	\$9,883.50	\$1,191.50	4695-101	DW-12
Kohlman Permeable Weir Test System - Implement Monitoring Plan	\$5,000.00	\$150.00	\$4,850.00	\$0.00	4695-101	DW-12
Kohlman Lake Aquatic Plant Management Effects Study	\$85,705.00	\$15,837.81	\$69,867.19	\$10,178.81	4695-101	DW-12
Shallow Lake Aeration Study	\$40,000.00	\$5,317.38	\$34,682.62	\$3,194.38	4695-101	DW-12
<b>Project Operations</b>						
2023 Tanners Alum Facility Monitoring	\$17,000.00	\$2,745.00	\$14,255.00	\$2,175.00	4650-101	TaL-3
Phalen/Keller and Twin Operations Support & Communications	\$5,000.00	\$0.00	\$5,000.00	\$0.00	4650-101	DW-5, DW-13
Lake Level Station Operation and Maintenance (add rain gauges?)	\$50,000.00	\$0.00	\$50,000.00	\$0.00	4650-101	DW-5
<b>Capital Improvements</b>						
Tanners Outlet	\$5,000.00	\$1,877.00	\$3,123.00	\$1,877.00	4128-520	DW-9
Woodbury Target	\$180,000.00	\$24,210.50	\$155,789.50	\$0.00	4128-518	DW-6
Roosevelt Homes	\$77,100.00	\$7,980.00	\$69,120.00	\$7,540.00	4128-518	DW-6
Targeted Retrofit Projects 2023	\$150,000.00	\$31,559.81	\$118,440.19	\$735.00	4128-518	DW-6
Stewardship Grant Program	\$75,000.00	\$14,882.50	\$60,117.50	\$8,244.00	4682-529	DW-6
West Industrial Park Berm and associated improvements	\$300,000.00	\$0.00	\$300,000.00	\$0.00	4128-520	GC-3
Lake Emily Subwatershed BMP	\$160,000.00	\$145,807.52	\$14,192.48	\$8,388.26	4128-518	LE-3
Pioneer Park Stormwater Reuse	\$151,200.00	\$58,529.04	\$92,670.96	\$13,185.50	4128-518	DW-6
Double Driveway and Fish Creek Tributary Improvements	\$112,200.00	\$32,641.99	\$79,558.01	\$15,681.76	4129-537	FC-2
<b>CIP Project Repair &amp; Maintenance</b>						
Routine CIP Inspection and Unplanned Maintenance Identification	\$125,000.00	\$49,546.20	\$75,453.80	\$21,472.86	4128-516	DW-5
Beltline 5-year Inspection	\$15,000.00	\$12,895.00	\$2,105.00	\$4,577.00	4128-516	BELT-2
District Inspection Standardization	\$0.00	\$0.00	\$0.00	\$0.00	4128-516	DW-5
2023 CIP Maintenance and Repairs	\$165,000.00	\$67,724.90	\$97,275.10	\$4,550.00	4128-516	DW-5

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

**\$163,131.66**


Bradley J. Lindaman, Vice President

2023 Capitol Improvemet Project (CIP) Progress Payment Number 3

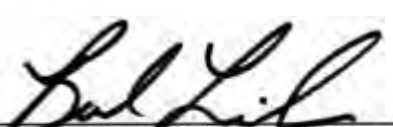
1.0	Total Completed Through This Period:	<u>\$472,384.39</u>	
2.0	Total Completed Previously Completed:		<u>\$415,930.28</u>
3.0	Total Completed This Period:		<u>\$56,454.12</u>
4.0	Amount Previously Retained:	<u>\$20,796.52</u>	
5.0	Amount Retained This Period (See Note 1):		<u>\$2,822.71</u>
6.0	Total Amount Retained (See Note 1):	<u>\$23,619.22</u>	
7.0	Retainage Released Through This Period:		<u>\$0.00</u>
8.0	Total Retainage Remaining:	<u>\$23,619.22</u>	
9.0	Amounts Previously Paid:	<u>\$395,133.76</u>	
10.0	Amount Due This Estimate:		<u><u>\$53,631.41</u></u>

Note 1: Retainage shall be 5 percent of the value of the Work completed.

SUBMITTED BY:

Name: Steve St. Claire Date: 5/30/23  
Title: President  
Contractor: Miller Excavating, Inc.  
Signature: 

RECOMMENDED BY:

Name: Brad Lindaman Date: 5/31/23  
Title: District Engineer  
Engineer: Barr Engineering Company  
Signature: 

APPROVED BY:

Name: Val Eisele Date: \_\_\_\_\_  
Title: President  
Owner: Ramsey-Washington Metro Watershed District  
Signature: \_\_\_\_\_



Summary of Work Completed Through May 23, 2023 for Progress Payment Number 3

						(1) Total Completed Through This Period		(2) Total Completed Previous Period		(3) Total Completed This Period	
Item	Description	Unit	Estimated Quantity	Unit Price	Extension	Quantity	Amount	Quantity	Amount	Quantity	Amount
<b>General</b>											
A	Mobilization/Demobilization	L.S.	1	\$32,668.83	\$32,668.83	0.90	\$29,401.95	0.75	\$24,501.62	0.15	\$4,900.32
B	Control of Water	L.S.	1	\$11,998.46	\$11,998.46	0.90	\$10,798.61	0.75	\$8,998.85	0.15	\$1,799.77
C	Traffic Control	L.S.	1	\$5,833.16	\$5,833.16	0.90	\$5,249.84	0.75	\$4,374.87	0.15	\$874.97
<b>Site 1 - Tamarack Swamp, Woodbury (PFS Basins Cleaning/Sweeping)</b>											
D	Sediment/Muck Cleanup Excavation, Loading, Hauling and Disposal of Regulated Material (SRV Level 2 and 3)	Ton	92	\$141.58	\$13,025.36	0	\$0.00	0	\$0.00	0	\$0.00
E	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	100	\$9.68	\$968.00	65	\$629.20	0	\$0.00	65	\$629.20
F	Sediment Log (9-Inch Diameter)	L.F.	60	\$6.61	\$396.60	40	\$264.40	0	\$0.00	40	\$264.40
G	Paver Sweeping	S.Y.	1,400	\$3.34	\$4,676.00	1,400	\$4,676.00	0	\$0.00	1,400	\$4,676.00
<b>Site 2 - Tanners Wetland, Oakdale (Wetland Weir Maintenance)</b>											
D	Sediment/Muck Cleanup Excavation, Loading, Hauling and Disposal of Regulated Material (SRV Level 2 and 3)	Ton	250	\$136.94	\$34,235.00	324	\$44,427.44	324	\$44,427.44	0	\$0.00
E	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	210	\$13.32	\$2,797.20	64	\$852.48	0	\$0.00	64	\$852.48
J	Permeable Weir Maintenance (Reopening Drainage Slots and Remove all Brush and Debris)	L.F.	580	\$14.04	\$8,143.20	580	\$8,143.20	0	\$0.00	580	\$8,143.20
M	Construction Entrance	Each	1	\$1,316.48	\$1,316.48	1	\$1,316.48	0	\$0.00	1	\$1,316.48
<b>Site 3 - 5th Street Wetland, Oakdale (Wetland Weir Maintenance)</b>											
E	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	210	\$13.32	\$2,797.20	1,213	\$16,157.16	1,213	\$16,157.16	0	\$0.00
J	Permeable Weir Maintenance (Reopening Drainage Slots and Remove all Brush and Debris)	L.F.	65	\$37.72	\$2,451.80	65	\$2,451.80	0	\$0.00	65	\$2,451.80
W	Sediment/Muck Cleanup Excavation with On-Site Disposal	L.S.	1	\$6,213.07	\$6,213.07	1	\$6,213.07	1	\$6,213.07	0	\$0.00
<b>Site 4 - Gervais Mill Park, Little Canada (Mill Pond Filter Maintenance)</b>											
E	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	400	\$9.69	\$3,876.00	0	\$0.00	0	\$0.00	0	\$0.00
H	Remove Existing 1 1/2" to 2" Filter Rock	L.S.	1	\$2,470.52	\$2,470.52	1	\$2,470.52	0	\$0.00	1	\$2,470.52
I	Clear Washed Filter Rock	Ton	50	\$89.51	\$4,475.50	77	\$6,892.27	0	\$0.00	77	\$6,892.27
L	Flotation Silt Curtain	L.F.	45	\$33.84	\$1,522.80	50	\$1,692.00	0	\$0.00	50	\$1,692.00
O	Composite Mud Mats	S.Y.	100	\$47.24	\$4,724.00	114	\$5,385.36	0	\$0.00	114	\$5,385.36
<b>Site 4 - Gervais Mill Park, Little Canada (Steep Slope Repair)</b>											
E	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	150	\$23.83	\$3,574.50	0	\$0.00	0	\$0.00	0	\$0.00
F	Sediment Log (9-Inch Diameter)	L.F.	40	\$133.51	\$5,340.40	40	\$5,340.40	0	\$0.00	40	\$5,340.40
M	Construction Entrance	Each	1	\$1,316.48	\$1,316.48	0	\$0.00	0	\$0.00	0	\$0.00
P	Clearing and Grubbing	L.S.	1	\$2,767.48	\$2,767.48	0	\$0.00	0	\$0.00	0	\$0.00
V	Repair Slope with Imported Soils and Grading	L.S.	1	\$8,277.21	\$8,277.21	1	\$8,277.21	0	\$0.00	1	\$8,277.21
X	Pressure Clean Drainage Pipe System	L.S.	1	\$2,987.71	\$2,987.71	0	\$0.00	0	\$0.00	0	\$0.00
Y	Furnish and Install Cone Grate	Each	2	\$285.91	\$571.82	2	\$571.82	0	\$0.00	2	\$571.82
Z	MN/DOT Class II Riprap (Field Stone) with Geotextile Filter Fabric	Ton	30.0	\$99.69	\$2,990.70	34.1	\$3,399.43	0.0	\$0.00	34.1	\$3,399.43



**2023 Capital Improvement Project (CIP)**  
**Ramsey-Washington Metro Watershed District**  
**Summary of Work Completed Through May 23, 2023 for Progress Payment Number 3**

						(1) Total Completed Through This Period		(2) Total Completed Previous Period		(3) Total Completed This Period	
Item	Description	Unit	Estimated Quantity	Unit Price	Extension	Quantity	Amount	Quantity	Amount	Quantity	Amount
Site 5 - Lower Afton Road, Maplewood (Drainageway Sediment Removal)											
D	Sediment/Muck Cleanout Excavation, Loading, Hauling and Disposal of Regulated Material (SRV Level 2 and 3)	Ton	127	\$109.70	\$13,931.90	133	\$14,555.00	133	\$14,555.00	0	\$0.00
E	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	210	\$9.28	\$1,948.80	64	\$593.92	64	\$593.92	0	\$0.00
M	Construction Entrance	Each	1	\$1,316.48	\$1,316.48	0	\$0.00	0	\$0.00	0	\$0.00
N	Temporary Rock Filter Dike	Ton	10	\$125.18	\$1,251.80	0	\$0.00	0	\$0.00	0	\$0.00
O	Composite Mud Mats	S.Y.	45	\$44.39	\$1,997.55	280	\$12,429.20	280	\$12,429.20	0	\$0.00
Z	MN/DOT Class III Riprap (Field Stone) with Geotextile Filter Fabric	Ton	21.0	\$89.03	\$1,869.63	19.8	\$1,762.79	19.8	\$1,762.79	0.0	\$0.00
Z	MN/DOT Class IV Riprap (Field Stone) with Geotextile Filter Fabric	Ton	17.0	\$86.19	\$1,465.23	20.8	\$1,792.75	20.8	\$1,792.75	0.0	\$0.00
Site 6 - Kohlman Basin, Maplewood (Weirs Upflow Treatment System)											
L	Flotation Silt Curtain	L.F.	110	\$24.49	\$2,693.90	0	\$0.00	0	\$0.00	0	\$0.00
M	Construction Entrance	Each	1	\$1,316.48	\$1,316.48	0	\$0.00	0	\$0.00	0	\$0.00
R	Silt Fence	L.F.	150	\$10.93	\$1,639.50	0	\$0.00	0	\$0.00	0	\$0.00
S	Removal and Disposal of Existing Materials to Construct Upflow Treatment System Complete	L.S.	1	\$4,024.26	\$4,024.26	0	\$0.00	0	\$0.00	0	\$0.00
T	Construct Upflow Treatment System Complete	L.S.	1	\$67,698.10	\$67,698.10	0	\$0.00	0	\$0.00	0	\$0.00
Site 7 - Gervais County Park, Little Canada (Wetland Sediment Removal)											
E	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	540	\$5.91	\$3,191.40	368	\$2,174.88	368	\$2,174.88	0	\$0.00
F	Sediment Log (9-Inch Diameter)	L.F.	300	\$11.98	\$3,594.00	0	\$0.00	0	\$0.00	0	\$0.00
M	Construction Entrance	Each	1	\$1,316.48	\$1,316.48	1	\$1,316.48	0	\$0.00	1	\$1,316.48
O	Composite Mud Mats	S.Y.	30	\$48.47	\$1,454.10	201	\$9,742.47	201	\$9,742.47	0	\$0.00
P	Clearing and Grubbing	L.S.	1	\$3,084.66	\$3,084.66	1	\$3,084.66	1	\$3,084.66	0	\$0.00
U	Trench Excavation and Compacted Clay Fill (P)	C.Y.	38	\$266.05	\$10,109.90	38	\$10,109.90	38	\$10,109.90	0	\$0.00
Site 8 - Woodwinds Drive, Woodbury (SC846 and SC847)											
D	Sediment/Muck Cleanout Excavation, Loading, Hauling and Disposal of Regulated Material (SRV Level 2 and 3)	Ton	370	\$68.39	\$25,304.30	400	\$27,356.00	400	\$27,356.00	0	\$0.00
E	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	170	\$16.17	\$2,748.90	462	\$7,470.54	462	\$7,470.54	0	\$0.00
K	Remove Select Tree	Each	2	\$1,233.44	\$2,466.88	3	\$3,700.32	3	\$3,700.32	0	\$0.00
L	Flotation Silt Curtain	L.F.	110	\$14.58	\$1,603.80	0	\$0.00	0	\$0.00	0	\$0.00
O	Composite Mud Mats	S.Y.	30	\$48.47	\$1,454.10	60	\$2,908.20	60	\$2,908.20	0	\$0.00
Z	MN/DOT Class III Riprap (Field Stone) with Geotextile Filter Fabric	Ton	20.0	\$90.68	\$1,813.60	18.0	\$1,632.24	18.0	\$1,632.24	0.0	\$0.00
AA	Inlet Protection	Each	2	\$146.31	\$292.62	1	\$146.31	1	\$146.31	0	\$0.00
Site 8 - Woodwinds Drive, Woodbury (SC190)											
E	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	85	\$21.17	\$1,799.45	171	\$3,620.07	171	\$3,620.07	0	\$0.00
K	Remove Select Tree	Each	2	\$1,233.44	\$2,466.88	2	\$2,466.88	2	\$2,466.88	0	\$0.00
L	Flotation Silt Curtain	L.F.	100	\$15.08	\$1,508.00	0	\$0.00	0	\$0.00	0	\$0.00
O	Composite Mud Mats	S.Y.	30	\$48.47	\$1,454.10	30	\$1,454.10	30	\$1,454.10	0	\$0.00
Q	Sediment/Muck Cleanout Excavation, Loading, Hauling and Disposal of Unregulated Material (SRV Level 1) (P)	C.Y.	65	\$53.70	\$3,490.50	115	\$6,175.50	115	\$6,175.50	0	\$0.00
Z	MN/DOT Class III Riprap (Field Stone) with Geotextile Filter Fabric	Ton	10.0	\$76.34	\$763.40	12.2	\$931.35	12.2	\$931.35	0.0	\$0.00
AA	Inlet Protection	Each	2	\$112.37	\$224.74	1	\$112.37	1	\$112.37	0	\$0.00

**2023 Capital Improvement Project (CIP)  
Ramsey-Washington Metro Watershed District  
Summary of Work Completed Through May 23, 2023 for Progress Payment Number 3**

						(1) Total Completed Through This Period		(2) Total Completed Previous Period		(3) Total Completed This Period	
Item	Description	Unit	Estimated Quantity	Unit Price	Extension	Quantity	Amount	Quantity	Amount	Quantity	Amount
Site 9 - Century Ave. South, Woodbury (SC275)											
D	Sediment/Muck Cleanout Excavation, Loading, Hauling and Disposal of Regulated Material (SRV Level 2 and 3)	Ton	400	\$70.88	\$28,352.00	446	\$31,612.48	446	\$31,612.48	0	\$0.00
E	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	170	\$16.17	\$2,748.90	690	\$11,157.30	690	\$11,157.30	0	\$0.00
F	Sediment Log (9-Inch Diameter)	L.F.	20	\$11.34	\$226.80	0	\$0.00	0	\$0.00	0	\$0.00
K	Remove Select Tree	Each	2	\$1,193.99	\$2,387.98	2	\$2,387.98	2	\$2,387.98	0	\$0.00
L	Flotation Silt Curtain	L.F.	70	\$17.41	\$1,218.70	0	\$0.00	0	\$0.00	0	\$0.00
O	Composite Mud Mats	S.Y.	30	\$48.47	\$1,454.10	30	\$1,454.10	30	\$1,454.10	0	\$0.00
P	Clearing and Grubbing	L.S.	1	\$3,700.33	\$3,700.33	1	\$3,700.33	1	\$3,700.33	0	\$0.00
Z	MN/DOT Class III Riprap (Field Stone) with Geotextile Filter Fabric	Ton	30.0	\$101.37	\$3,041.10	17.0	\$1,723.29	17.0	\$1,723.29	0.0	\$0.00
Site 10 - Aspen Circle, Little Canada (Aspen Pond)											
D	Sediment/Muck Cleanout Excavation, Loading, Hauling and Disposal of Regulated Material (SRV Level 2 and 3)	Ton	1770	\$71.50	\$126,555.00	1,842	\$131,703.00	1,842	\$131,703.00	0	\$0.00
E	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	300	\$12.51	\$3,753.00	300	\$3,753.00	300	\$3,753.00	0	\$0.00
N	Temporary Rock Filter Dike	Ton	10	\$114.21	\$1,142.10	0	\$0.00	0	\$0.00	0	\$0.00
O	Composite Mud Mats	S.Y.	30	\$48.47	\$1,454.10	30	\$1,454.10	30	\$1,454.10	0	\$0.00
Z	MN/DOT Class III Riprap (Field Stone) with Geotextile Filter Fabric	Ton	30.0	\$89.61	\$2,688.30	18.5	\$1,657.79	18.5	\$1,657.79	0.0	\$0.00
Contract Base Extensions =						\$517,633.33	\$465,949.94	\$409,495.83	\$56,454.12		
Change Order 1											
C.O.1.A	Site 10 Storm Pipe Extension	L.S.	1	\$4,247.45	\$4,247.45	1	\$4,247.45	1	\$4,247.45	0	\$0.00
C.O.1.B	Sediment Log (6-Inch Diameter)	L.F.	243	\$9.00	\$2,187.00	243	\$2,187.00	243	\$2,187.00	0	\$0.00
Change Order Extensions =						\$6,434.45	\$6,434.45	\$6,434.45	\$0.00		
Contract Grand Total =						\$524,067.78	\$472,384.39	\$415,930.28	\$56,454.12		

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  
May 24, 2023  
File No: 9M

	Balance
General Account	<u>\$2,225.00</u>

# Permit Application Coversheet

Date June 07, 2023

Project Name Snail Lake Boat Launch

Project Number 23-13

Applicant Name Brett Blumer, Ramsey County Parks & Recreation

Type of Development Maintenance

## Property Description

This project is located at the existing boat launch on the southeast corner of Snail Lake in the City of Shoreview. The applicant is proposing to replace the deteriorated boat launch and create better pedestrian access to the existing dock. The total site area is 0.11 acre, therefore permanent stormwater management (Rule C) is not required. A wetland fringe to the east of the project location was delineated (#23-05 WCA), and no wetland impacts are anticipated as a result of this project. Construction activity is proposed to take place below the 100-year water surface elevation of Snail Lake (886.5'). The applicant has demonstrated through cut/fill volumes that there will be no net fill in the 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

The proposed site plan will result in no net fill in the floodplain and therefore no loss of flood storage on the landscape.

## 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.

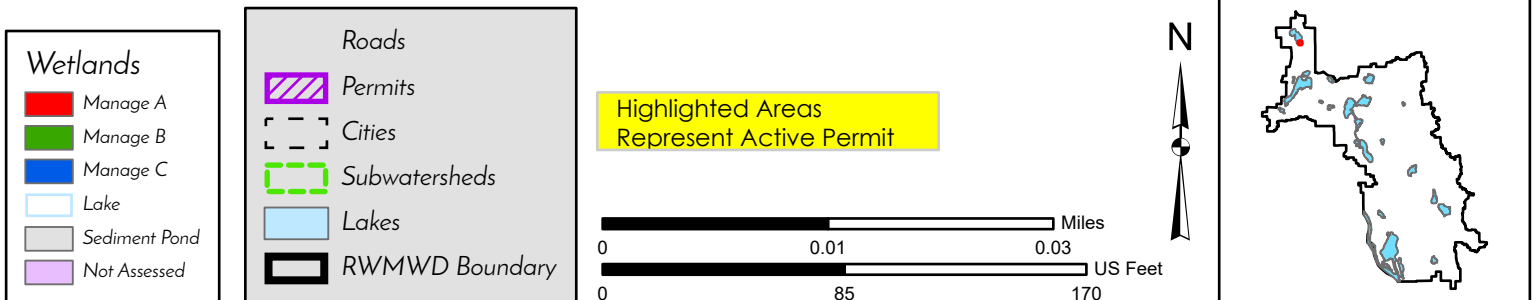
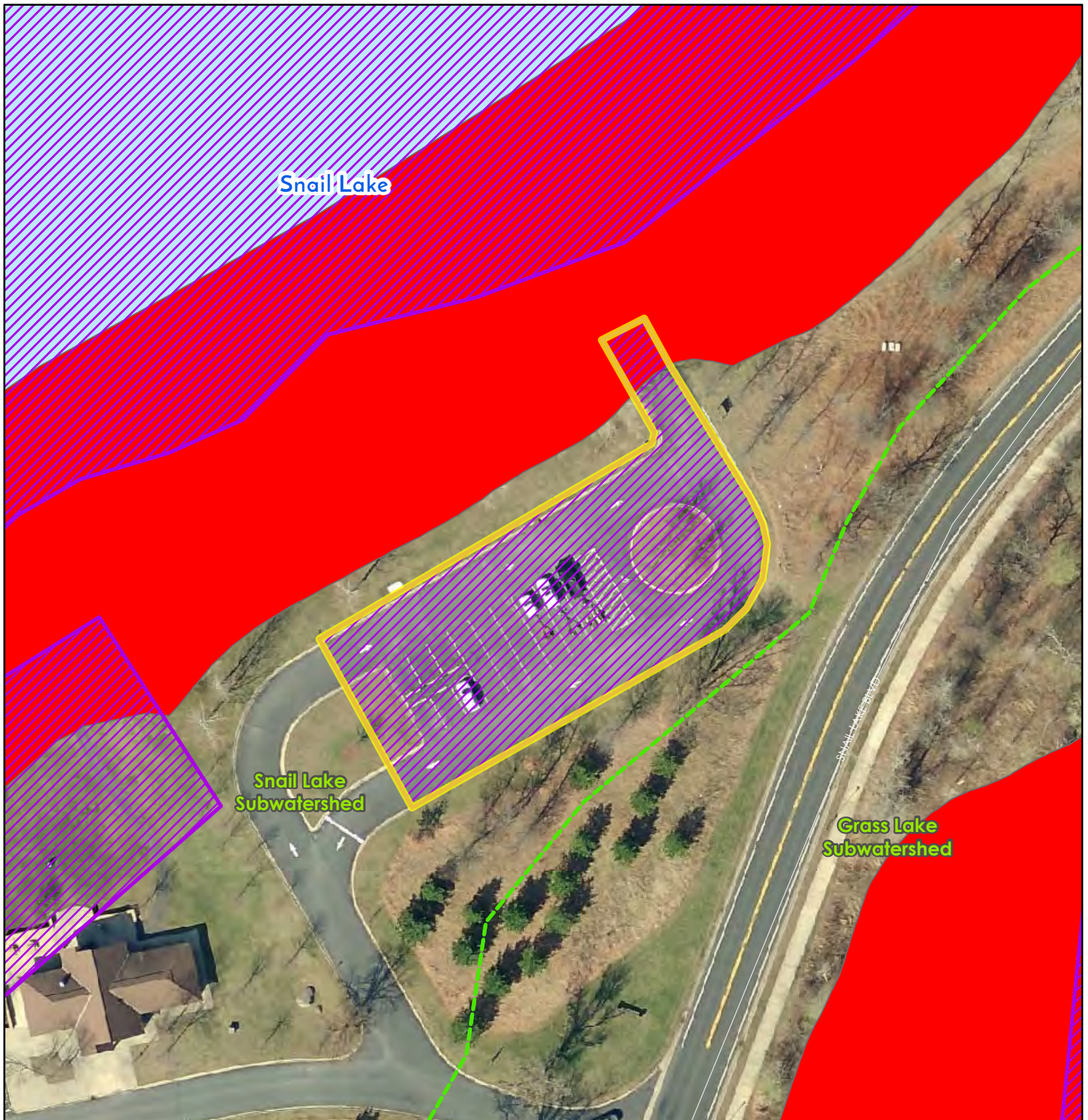
## Staff Recommendation

Staff recommends approval of this permit with the special provisions.

## Attachments:

- ☒ Project Location Map
- ☒ Project Grading Plan

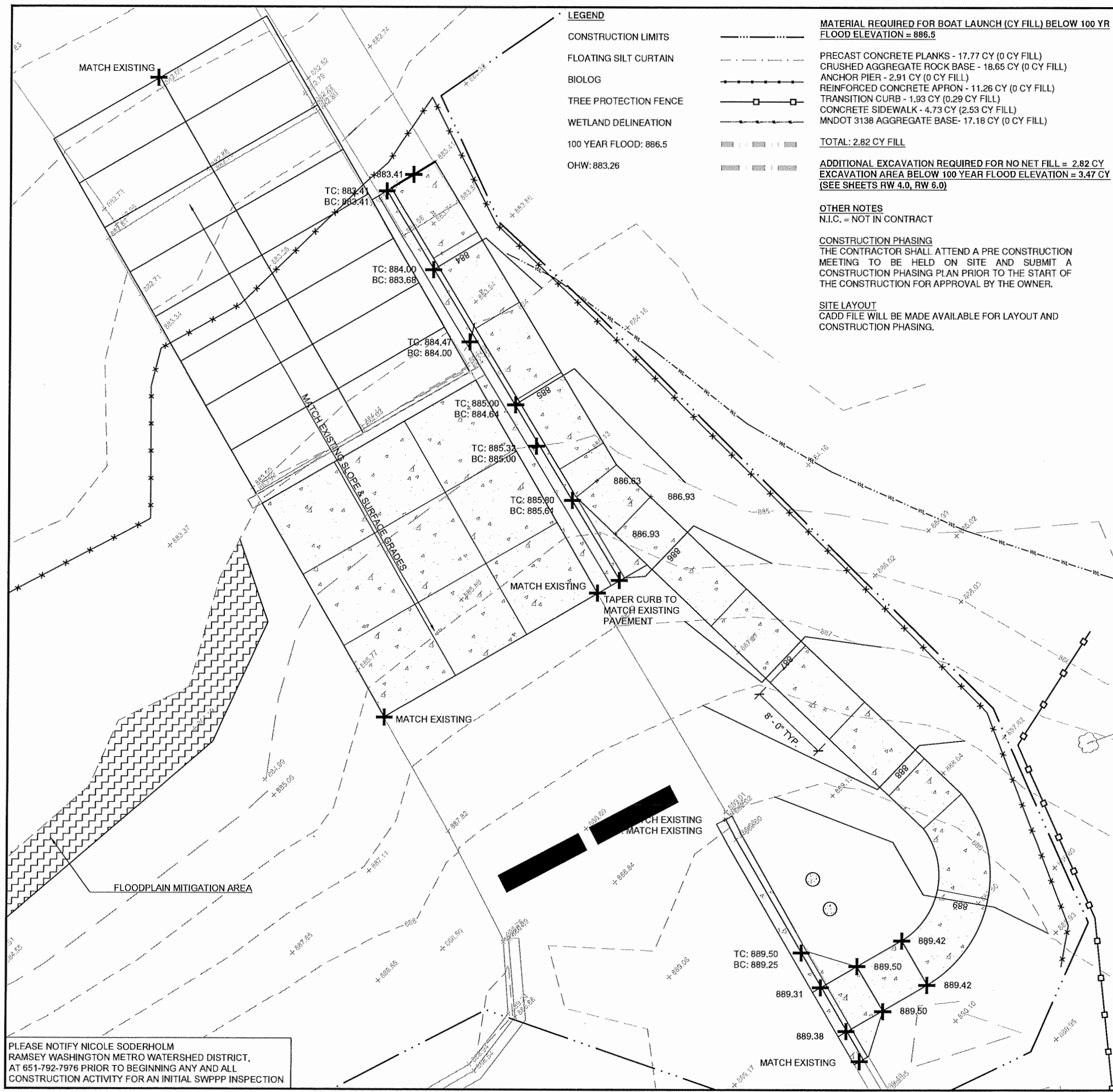
# #23-13 Snail Lake Boat Launch



### Special Provisions

1. The applicant shall revise the cut/fill table in the narrative. The 'Fill Volume' column should be labeled 'Net Fill Volume'—within that column the 'Excavation Area Below 100-Year Flood Elevation' should be reported as a negative value.
2. The applicant shall revise the erosion control plan to show redundant perimeter control where feasible parallel to the delineated wetland boundary.
3. The applicant shall submit the final, signed plans set.
4. The applicant shall submit contact information for the erosion control coordinator responsible for implementing the erosion control plan.





PLEASE NOTIFY NICOLE SODERHOLM  
RAMSEY WASHINGTON METRO WATERSHED DISTRICT,  
AT 651-792-7976 PRIOR TO BEGINNING ANY AND ALL  
CONSTRUCTION ACTIVITY FOR AN INITIAL SWPPP INSPECTION

**GENERAL SITE PLAN NOTES:**

CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES AND TOPOGRAPHIC CONDITIONS PRIOR TO CONSTRUCTION START. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES OR VARIATIONS FROM THE PLANS. ANY DISCREPANCIES FOUND THAT AFFECT THE WORK SHALL BE REPORTED TO THE OWNER OR OWNER'S REPRESENTATIVE FOR CLARIFICATION PRIOR TO ANY ADDITIONAL WORK BEING COMPLETED.

CONTRACTOR SHALL CONTACT "GOPHER STATE ONE CALL" FOR ALL UTILITY LOCATIONS (651-454-0002) 48 HR. PRIOR TO EXCAVATION/CONSTRUCTION.

CONTRACTOR TO VERIFY HORIZONTAL LOCATION AND ELEVATION WHERE A CONNECTION TO EXISTING PAVEMENT, STRUCTURE OR SITE FEATURE IS TO BE MADE.

CONTRACTOR TO WORK OUT OF TREE DRIP ZONE EXCEPT IN AREAS DESIGNATED BY LANDSCAPE ARCHITECT.

CRITICAL LAYOUT DIMENSIONS: THE OWNER OR OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO REVISE THE PROJECT LAYOUT TO AVOID UNFORESEEN CONSTRAINTS SUCH AS MATURE TREES, UNFORESEEN SOIL CONSTRAINTS, ETC. THESE ADJUSTMENTS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING UTILITIES, TREES, SITE AMENITIES, ETC. FROM DAMAGE DURING CONSTRUCTION.

CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY DAMAGE (AT CONTRACTORS EXPENSE). THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LOCATES. LOCATES SHALL BE MARKED IN THE FIELD FOR REVIEW BY THE OWNER OR OWNER'S REPRESENTATIVE.

CONTRACTOR SHALL STAY WITHIN CONSTRUCTION LIMITS UNLESS APPROVED OTHERWISE BY THE OWNER OR OWNERS REPRESENTATIVE. THE WORK ZONE SHALL BE KEPT AS MINIMAL AS POSSIBLE DURING CONSTRUCTION. MOVEMENT AND PARKING OF EQUIPMENT SHALL STAY WITHIN WORK ZONE AND NOT CROSS AREAS OTHERWISE UNDISTURBED DURING EARTHWORK OPERATION.

CONTRACTOR BASE BID SHALL ASSUME TREES TO BE REMOVED BY RAMSEY COUNTY PRIOR TO CONSTRUCTION. CLEARING, GRUBBING, AND STUMP REMOVAL IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHOULD BE DISPOSED OF OFF SITE. TREES UNDER 6" DIA. SHALL BE INCIDENTAL TO THE GRADING.

**LAYOUT NOTES:** CONCRETE BOAT RAMP PLANKS, CURBS, PEDESTRIAN RAMP, SIDEWALK, SIGN POST FOUNDATIONS, AND CONSTRUCTION LIMITS SHALL BE FIELD STAKED BY CONTRACTOR. CONTRACTOR WILL NEED APPROVAL BY RAMSEY COUNTY LANDSCAPE ARCHITECT PRIOR TO COMMENCING CONSTRUCTION. CONTRACT ITEMS LAID OUT AND INSTALLED INCORRECTLY WITHOUT PRIOR REVIEW BY RAMSEY COUNTY REPRESENTATIVE WILL BE REMOVED AND REINSTALLED AT CONTRACTORS OWN EXPENSE.

**SPOT GRADES & DRAINAGE REQUIREMENTS:** ALL SPOT ELEVATIONS REPRESENT FINISHED SURFACE GRADE UNLESS OTHERWISE NOTED.

THE CONTRACTOR SHALL REVIEW GRADING WITH THE OWNER. PRIOR TO EARTHWORK TO ENSURE PROPER DRAINAGE. THE INTENT OF ALL PROPOSED SPOT GRADES AND GRADING IS TO MATCH EXISTING GRADES ADJACENT TO NEW CONSTRUCTION TO ENSURE PROPER DRAINAGE AND BLENDING OF NEW GRADES WITH EXISTING ONES. MAX. SLOPES SHALL NOT BE GREATER THAN 4:1 UNLESS OTHERWISE NOTED ON THE PLAN.

**SUB CUT REQUIREMENTS:** GRADES AS SHOWN ARE TO FINISH GRADE. CONTRACTOR SHALL SUB CUT IN ACCORDANCE WITH PAVEMENT SECTIONS.

CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SURVEYING RELATING TO LAYOUT & SITE GRADING. THE CONTRACTOR SHALL FIELD VERIFY ALL GRADES WITH THE LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY OWNER OF ANY DISCREPANCIES OR VARIATION FROM PLAN.

**TOPSOIL STRIPPING, STOCKPILING AND RE-SPREADING REQUIREMENTS:** TOPSOIL SHALL BE STRIPPED FROM ALL DISTURBED AREAS FROM COMMON EXCAVATION AND SHALL BE SALVAGED AND STOCKPILED. THE LANDSCAPE ARCHITECT SHALL DETERMINE PLACEMENT OF THE STOCKPILE PRIOR TO CONSTRUCTION.

CONTRACTOR SHALL STRIP, STOCKPILE & RE-SPREAD SUFFICIENT TOPSOIL TO PROVIDE A MINIMUM 4 INCH DEPTH (COMPACTED) TO ALL DISTURBED AREAS TO BE SEEDED, UNLESS OTHERWISE NOTED. ALL DISTURBED AREAS TO RECEIVE SEED/TURF ESTABLISHMENT AND ADD SOIL AMENDMENTS FOR OPTIMUM PLANT GROWTH. TOPSOIL SHALL BE IN A RELATIVELY DRY STATE WHEN PLACED. FINE GRADE TOPSOIL TO ELIMINATE ROUGH OR LOW SPOTS. MANUALLY SPREAD TOPSOIL CLOSE TO TREES, PLANTS, AND PAVEMENT TO PREVENT DAMAGE.

EXCESS STOCKPILE MATERIAL THAT IS NOT SUITABLE FOR REUSE SHALL BE DISPOSED OFF SITE BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR RESTORING ALL STOCKPILE AREAS AFTER MATERIAL IS REMOVED.

IMPORTED TOPSOIL SHALL BE PLACED IN AREAS WITH INADEQUATE TOPSOIL AS DETERMINED IN THE FIELD BY OWNER'S REPRESENTATIVE. CLEAN TOPSOIL IMPORT SHALL CONFORM TO MNDOT 3877 TYPE A REQUIREMENTS

**SILT AND TREE PROTECTIVE FENCE:** CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING SILT FENCE PER PLAN PRIOR TO CONSTRUCTION. SILT FENCE LOCATIONS SHALL BE REVIEWED PRIOR TO CONSTRUCTION.

CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL STORM DRAIN INLETS

CONTRACTOR SHALL ERECT AND MAINTAIN PROTECTIVE FENCING FOR EXISTING TREES THAT ARE TO REMAIN AND THAT ARE NEAR THE CONSTRUCTION ZONE. OWNER WILL WALK THE SITE WITH THE CONTRACTOR PRIOR TO ROUGH GRADING TO IDENTIFY TREES TO BE PROTECTED TREE PROTECTION INCLUDING PROTECTIVE FENCING SHALL BE CONSIDERED INCIDENTAL TO THE GRADING WORK AND SHOULD BE INCLUDED IN THE CONTRACTORS BID PRICE FOR THAT WORK REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

**RAMSEY COUNTY**  
Parks & Recreation

**CONTACT INFORMATION:**  
B. Gus Blumer, Landscape Architect  
2015 N. Van Dyke Street  
Maplewood, MN 55120  
brell.blumer@co.ramsey.mn.us  
651.740.2500

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 Landscape Architect under the laws of the State of Minnesota.

Registration: Landscape Architect  
State: Minnesota  
Number: 42944  
Signature: B. Gus Blumer

NO.	DATE	DESCRIPTION
1	4-11-23	REVIEW DOCUMENTS
2	4-18-23	BID DOCUMENTS

DESIGN PHASE:

**BID DOCUMENTS**

**SNAIL LAKE BOAT RAMP RECONSTRUCTION PROJECT**  
RAMSEY COUNTY PARKS AND RECREATION DEPARTMENT  
VADNAIS SNAIL LAKES REGIONAL PARK

DATE: APRIL 2023

DESIGNED BY: BGB/BMK  
DRAWN BY: BMK  
CHECKED BY: BGB

TITLE

**GRADING PLAN**

**BD 4.0**

PAGE 5 OF 16

## Minnesota Wetland Conservation Act Notice of Application

<b>Local Government Unit:</b> Ramsey-Washington Metro Watershed District	<b>County:</b> Ramsey
<b>Applicant Name:</b> Michael Goodnature (Ramsey County Parks & Rec) <b>Applicant Representative:</b>	
<b>Project Name:</b> Snail Lake Boat Launch <b>LGU Project No. (if any):</b> 23-05 WCA	
<b>Date Complete Application Received by LGU:</b> 4/20/2023	
<b>Date this Notice was Sent by LGU:</b> 5/4/2023	
<b>Date that Comments on this Application Must Be Received By LGU<sup>1</sup>:</b> 5/25/2023	

<sup>1</sup> minimum 15 business day comment period for Boundary & Type, Sequencing, Replacement Plan and Bank Plan Applications

### WCA Decision Type - check all that apply

<input checked="" type="checkbox"/> <b>Wetland Boundary/Type</b>	<input type="checkbox"/> <b>Sequencing</b>	<input type="checkbox"/> <b>Replacement Plan</b>	<input type="checkbox"/> <b>Bank Plan (not credit purchase)</b>
<input type="checkbox"/> <b>No-Loss (8420.0415)</b>	<input type="checkbox"/> <b>Exemption (8420.0420)</b>		
<b>Part:</b> <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> G <input type="checkbox"/> H		<b>Subpart:</b> <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9	

### Replacement Plan Impacts (replacement plan decisions only)

<b>Total WCA Impact Area Proposed:</b> 0.03 acre
--

### Application Materials

<input checked="" type="checkbox"/> Attached <input type="checkbox"/> Other <sup>1</sup> (specify):
---

<sup>1</sup> Link to ftp or other accessible file sharing sites is acceptable.

### Comments on this application should be sent to:

<b>LGU Contact Person:</b> Nicole Maras
<b>E-Mail Address:</b> nicole.soderholm@rwmwd.org
<b>Address and Phone Number:</b> 2665 Noel Drive, Little Canada MN 55117 651-792-7976
<b>Decision-Maker for this Application:</b>
<input type="checkbox"/> Staff <input checked="" type="checkbox"/> Governing Board/Council <input type="checkbox"/> Other (specify):

### Notice Distribution (include name)

*Required on all notices:*

<input checked="" type="checkbox"/> SWCD TEP Member: <b>Michael Goodnature (Ramsey County)</b> <input checked="" type="checkbox"/> BWSR TEP Member: <b>Ben Meyer</b>
<input type="checkbox"/> LGU TEP Member (if different than LGU contact):
<input checked="" type="checkbox"/> DNR Representative: <b>Jim Levitt, Dan Scollan</b>
<input type="checkbox"/> Watershed District or Watershed Mgmt. Org.:
<input checked="" type="checkbox"/> Applicant (notice only): <input type="checkbox"/> Agent/Consultant (notice only):

### Optional or As Applicable:

<input checked="" type="checkbox"/> Corps of Engineers:
<input type="checkbox"/> BWSR Wetland Mitigation Coordinator (required for bank plan applications only):
<input type="checkbox"/> Members of the Public (notice only): <input checked="" type="checkbox"/> Other <b>Mary Fitzgerald (RWMWD), Gus Blumer/Ann WhiteEagle/Ben Karp (Ramsey County Parks &amp; Rec)</b>

<b>Signature:</b> <i>Nicole Maras</i>	<b>Date:</b> 5/4/2023
--	-----------------------

This notice and accompanying application materials may be sent electronically or by mail. The LGU may opt to send a summary of the application to members of the public upon request per 8420.0255, Subp. 3.



# Permit Application Coversheet

Date June 07, 2023

Project Name Gladstone Village

Project Number 23-14

Applicant Name Ashley Bisner, JB Vang

Type of Development Residential

## Property Description

This project is located on the southeast corner of English Street North & Frost Avenue East in the City of Maplewood. The applicant is proposing to demolish an existing building and construct a new apartment building with associated parking, sidewalks, and green space -- resulting in a 0.31-acre decrease in impervious area. The total site area is 1.75 acres. An underground infiltration system is proposed to meet stormwater treatment requirements. Pretreatment includes sumped inlets.

## 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.

## 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.

## Staff Recommendation

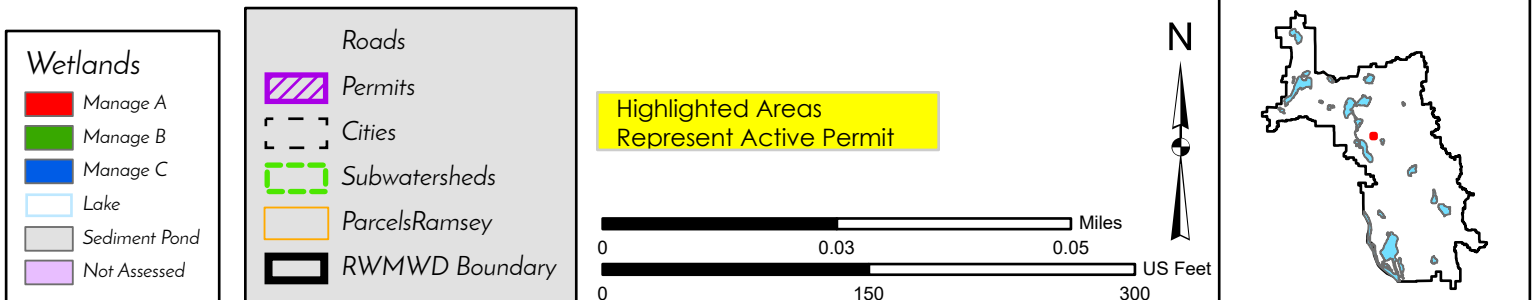
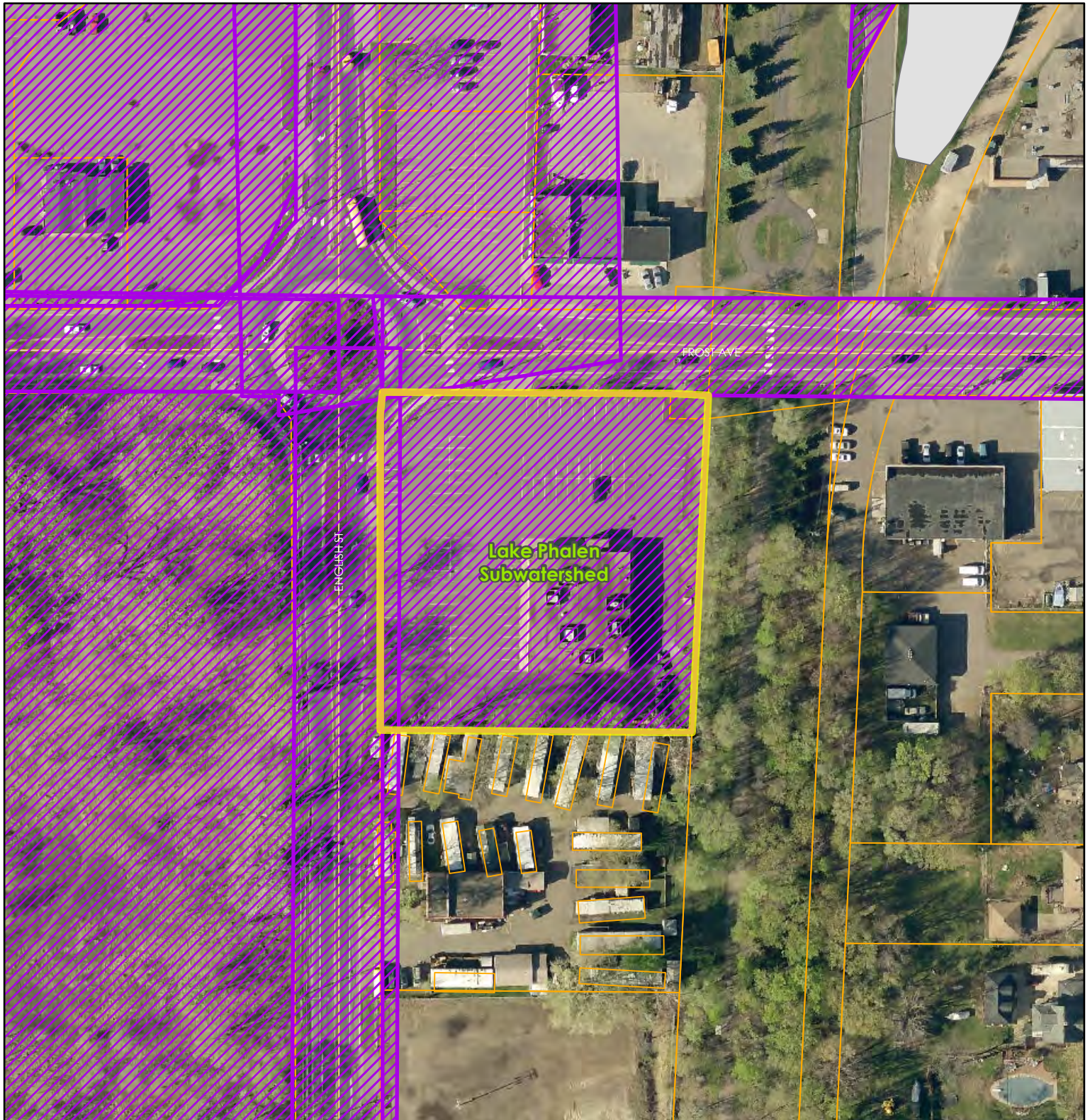
Staff recommends approval of this permit with the special provisions.

## Attachments:

- ☒ Project Location Map
- ☒ Project Grading Plan



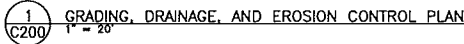
# #23-14 Gladstone Village





### Special Provisions

1. The applicant shall submit the escrow fee of \$8,750.
2. The applicant shall clarify the perimeter symbology on the south and southeast property lines by adding to the legend (Sheet C200).
3. The applicant shall submit the final, signed plans set including the landscaping plans that were referenced.
4. The applicant shall submit a signed stormwater joint maintenance agreement with the City of Maplewood.
5. The applicant shall submit a site-specific BMP Operations & Maintenance Plan.
6. The applicant shall submit the final geotechnical report.
7. The applicant shall submit contact information for the trained erosion control coordinator responsible for implementing the Stormwater Pollution Prevention Plan (SWPPP).
8. The applicant shall submit a copy of the approved Minnesota Pollution Control Agency's NPDES Construction Permit coverage for the project.



APPROXIMATE DISTURBED  
AREA IS 1.75 ACRES

KEYED NOTES ARE DENOTED BY  ON PLAYS

4. APPROXIMATE LOCATION OF TEMPORARY CONTAINED CONCRETE WASH OUT ERM. R

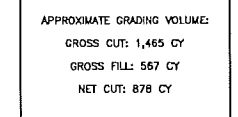
NOTE:  
STORM SEWER INLETS NOT SHOWN ON PLAN  
MAY RECEIVE RUNOFF FROM CONSTRUCTION  
ACTIVITIES. INSTALL INLET SEDIMENT  
PROTECTION PER DETAILS 4/C500 AND  
B/C500 ON ALL STORM INLETS THAT MAY  
RECEIVE RUNOFF.

1. ALL TOP AND BOTTOM ELEVATIONS CORRESPOND TO THE RESPECTIVE GRADE ELEVATIONS ON EACH SIDE OF THE WALL.
2. THE BOTTOM ELEVATION IS THE ELEVATION OF THE LOW-GRADE SIDE OF THE WALL, NOT THE TOP ELEVATION OF THE BURIED BLOCK COURSE.
3. ALL RETAINING WALLS SHALL HAVE PROTECTIVE FINISHING AT THE TOP WHERE THE VERTICAL HEIGHT EXCEEDS 30 INCHES. REFER TO ARCHITECTURAL AND LANDSCAPE PLANS AND SPECIFICATIONS.
4. MODULAR BLOCK RETAINING WALL SHALL BE DESIGNED AND CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER. DESIGN CALCULATIONS AND SHOP DRAWINGS SHALL BE SUBMITTED TO THE OWNER AND ARCHITECT AT LEAST THREE WEEKS PRIOR TO CONSTRUCTION OF WALL.

OF THE LOW-GRADE SIDE OF THE WALL,  
BLOCK COURSE.

ATIVE FINISHING AT THE TOP WHERE THE  
EFER TO ARCHITECTURAL AND LANDSCAPE

E DESIGNED AND CERTIFIED BY A  
IGN CALCULATIONS AND SHOP DRAWINGS  
ARCHITECT AT LEAST THREE WEEKS



1310 FROST AVENUE MAPLEWOOD, MN 55109

**BKBM**  
ENGINEERS

4120 Eads Brown Drive, Suite  
Microspoke, MO 65452  
Phone: (717) 863-5420  
Fax: (717) 863-5421  
www.bkbm.com

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BKBM Job No. 23201.50

REVISIONS

SIGNED	Keth A. Mar
DATE	xx/xx/202
LICENSE #	4667
DATE	05.03.200
PROJECT #	23201
PHASE	DESIGN DEVELOPMENT
DRAWN BY	W
CHECKED BY	ST

## C200

# Permit Application Coversheet

Date June 07, 2023

Project Name MnDOT Hwy 5 Improvements

Project Number 23-16

Applicant Name Bryce Fossand, MnDOT

Type of Development Linear

## Property Description

This project is located along Highway 5 and Stillwater Boulevard in the cities of St. Paul and Maplewood. The applicant is proposing to complete roadway improvements including grading, mill-and-overlay, ADA updates, signal/lighting, storm sewer, sidewalk replacement, and curb and gutter replacement. A portion of the project at the western end is located in Capitol Region Watershed District (CRWD), and a separate permit is being applied for in CRWD. The total site area within RWMWD is 9.27 acres. A number of onsite constraints related to permanent stormwater treatment have been identified including contaminated soils, limited right-of-way, and lack of suitable open space. Two offsite infiltration basins and one offsite iron-enhanced filtration basin are proposed to meet stormwater treatment requirements through alternative compliance sequencing. Pretreatment will include wet ponding areas and structural inlets with SAFL baffles. The BMPs are proposed to be located at the intersections of Highway 36 & Edgerton Street, and Highway 36 & White Bear Avenue in the City of Maplewood. The applicant has demonstrated that onsite rate control requirements are met for the project.

## 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.

## 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.

## Staff Recommendation

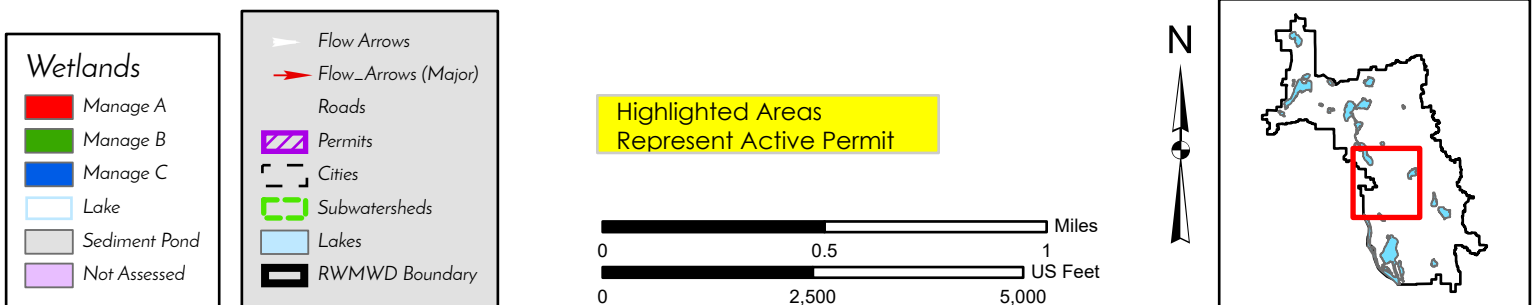
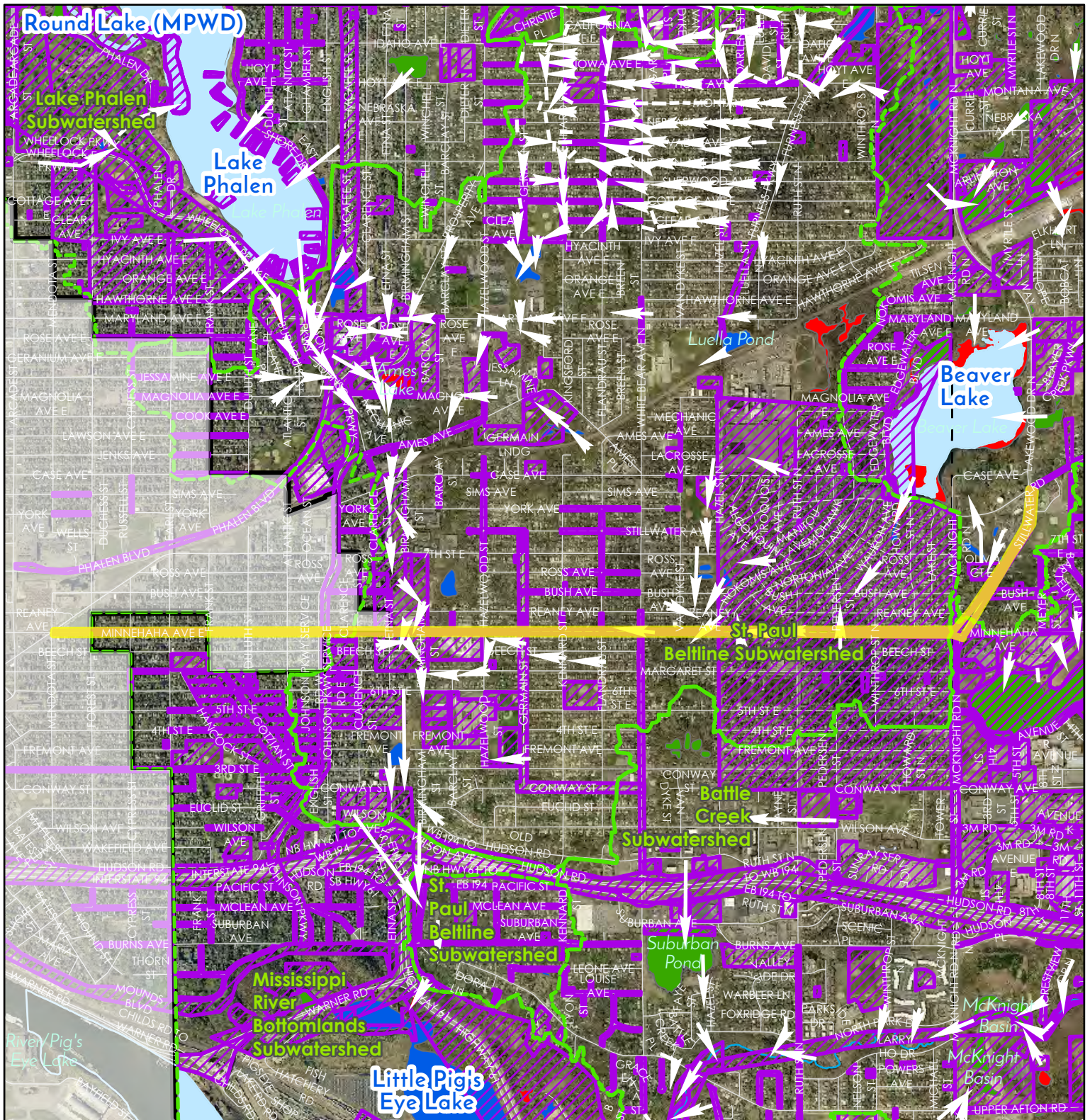
Staff recommends approval of this permit with the special provisions.

## Attachments:

- ☒ Project Location Map
- ☐ Project Grading Plan



# #23-16 MnDOT Hwy 5 Improvements

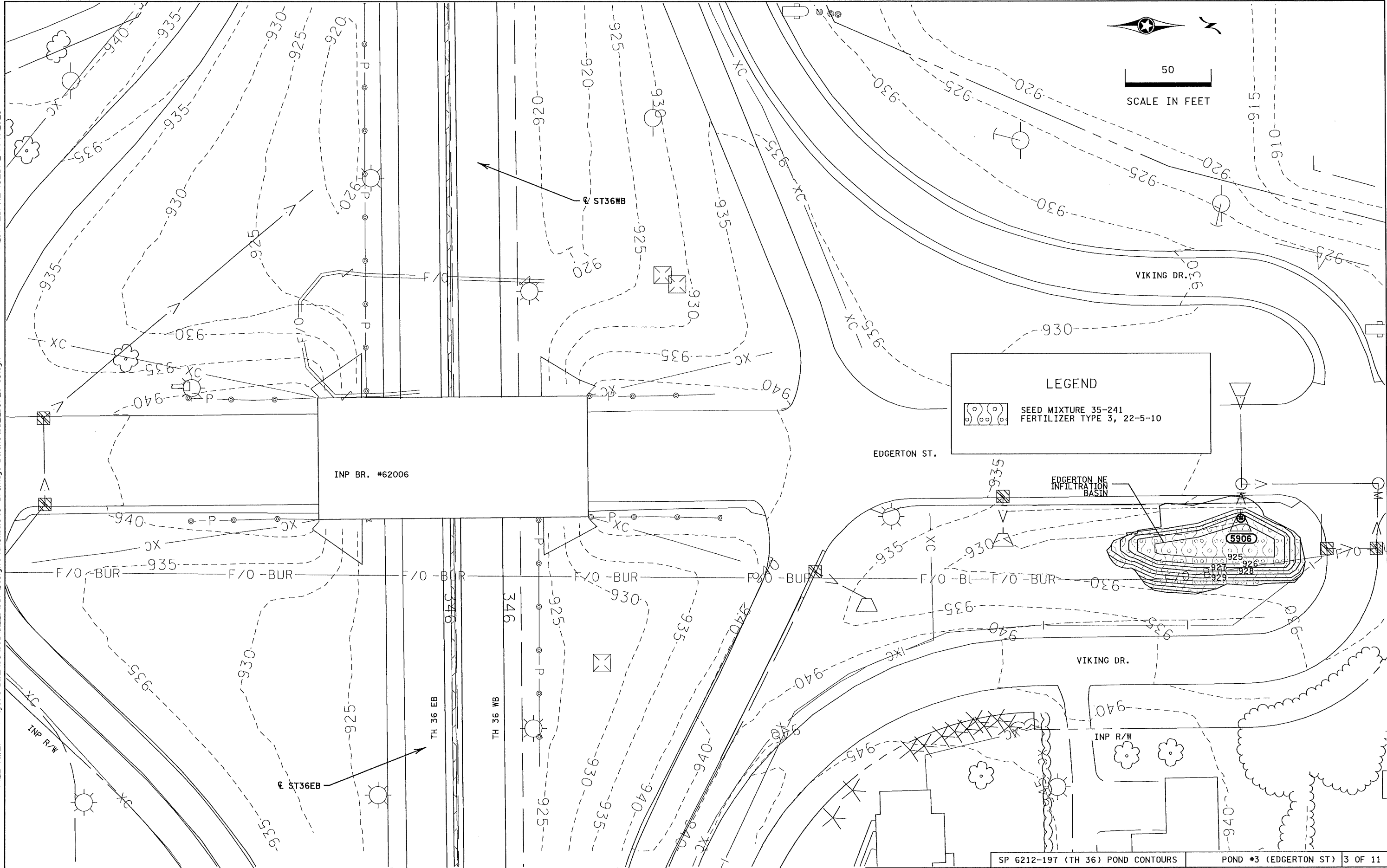




### Special Provisions

1. The applicant shall submit the final, signed plans set.
2. The applicant shall submit contact information for the trained erosion control coordinator responsible for implementing the Stormwater Pollution Prevention Plan (SWPPP).
3. The applicant shall submit a copy of the approved Minnesota Pollution Control Agency's NPDES Construction Permit coverage for the project.

DISTRICT #: Metro  
PLOT NAME: 0622937\_dnd03  
FILENAME: Projects\DM\_R05\005\622937\Design\PlanSheets\3 Drainage Detail\622937\_dnd03.dgn



SP 062-664-009, S.A.P. 062-665-003, S.A.P. 164-010-082, SP 164-010-075

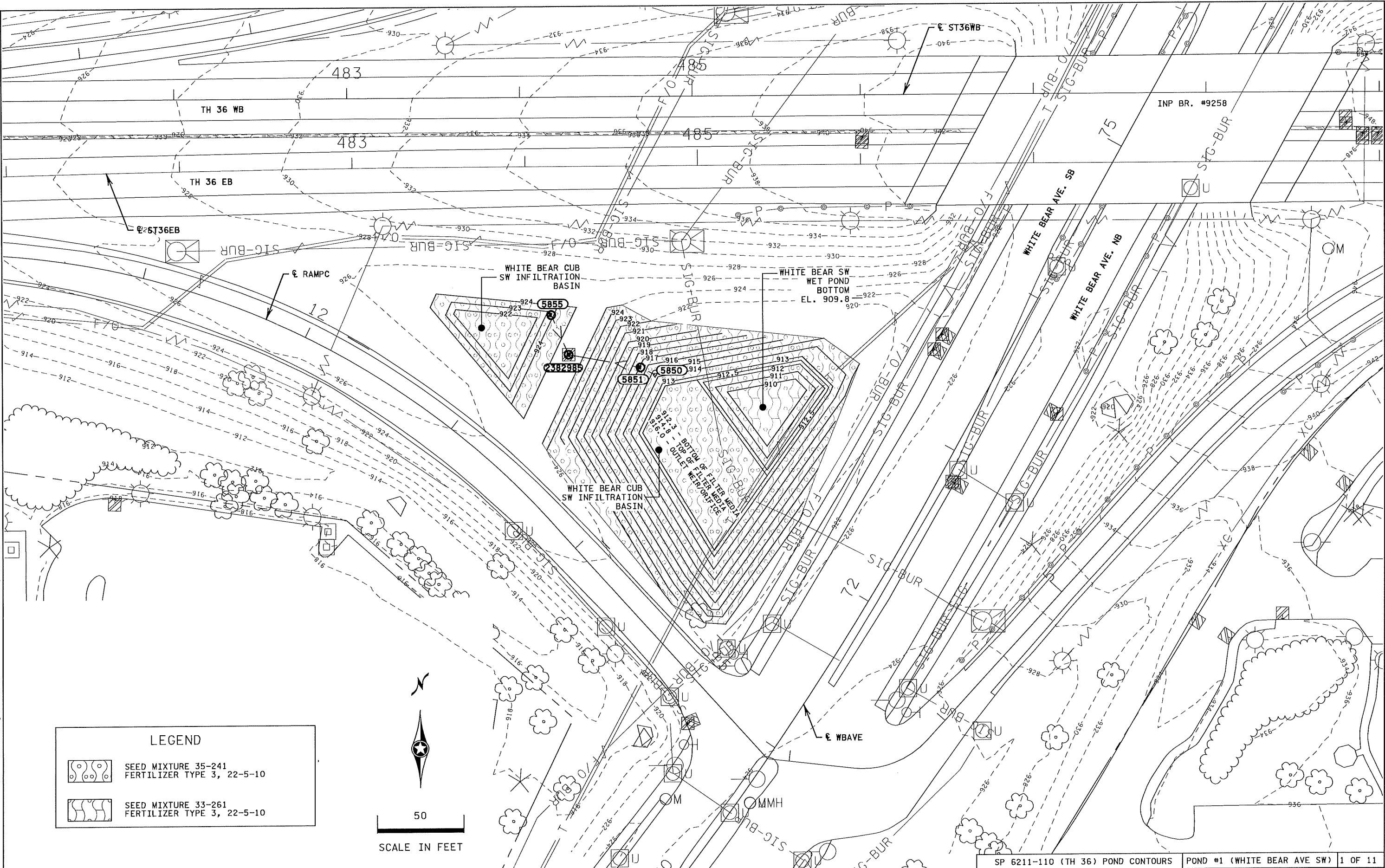
SP 6212-197 (TH 36) POND CONTOURS | POND #3 (EDGERTON ST) | 3 OF 11

**DRAINAGE DETAILS**



PLOTTED/REVISED: 21-APR-2023

DISTRICT #: Metro  
PLOT NAME: d622937\_pnd01  
FILENAME: Projects\DM\_R05\005\6229\037\Design\PlanSheets\3 Drainage Details\d622937\_drd1.dgn



LEGEND

SEED MIXTURE 35-241  
FERTILIZER TYPE 3, 22-5-10

SEED MIXTURE 33-261  
FERTILIZER TYPE 3, 22-5-10

50

SCALE IN FEET

SP 062-664-009, S.A.P. 062-665-003, S.A.P. 164-010-082, SP 164-010-075  
*Robert J. Abeyaratne*  
LIC. NO. 25421 DATE 4/12/2023  
LICENSED PROFESSIONAL ENGINEER

SP 6211-110 (TH 36) POND CONTOURS | POND #1 (WHITE BEAR AVE SW) | 1 OF 11

DRAINAGE DETAILS

STATE PROJ. NO. 6229-37 (T.H. 5) | SHEET NO. 225 OF 271 SHEETS

DRAWN BY: MS | CHECKED BY: RE | CERTIFIED BY:

## Stewardship Grant Application Summary

**Project Name:** Escape Climbing

**Application Number:** 23-20\_CS

**Board Meeting Date:** 6/7/2023

**Applicant Name:** Ryan Angelo

**Residential** ☐ **Commercial/Government** ☒

### Project Overview:

This project is located off S Owasso Blvd W and Rice St in the City of Little Canada. The applicant is proposing to install two rain gardens to capture runoff from the rooftop and parking areas. Over 1,550 square feet of asphalt will be removed to install the rain gardens. Along with improving water quality, the applicant is also interested in creating a diverse native planting plan to increase pollinator habitat. This project is located in a priority area and is eligible for 100% funding up to \$100,000.

### BMP type(s):

Rain Garden(2)

### Grant Request:

\$72,104.00

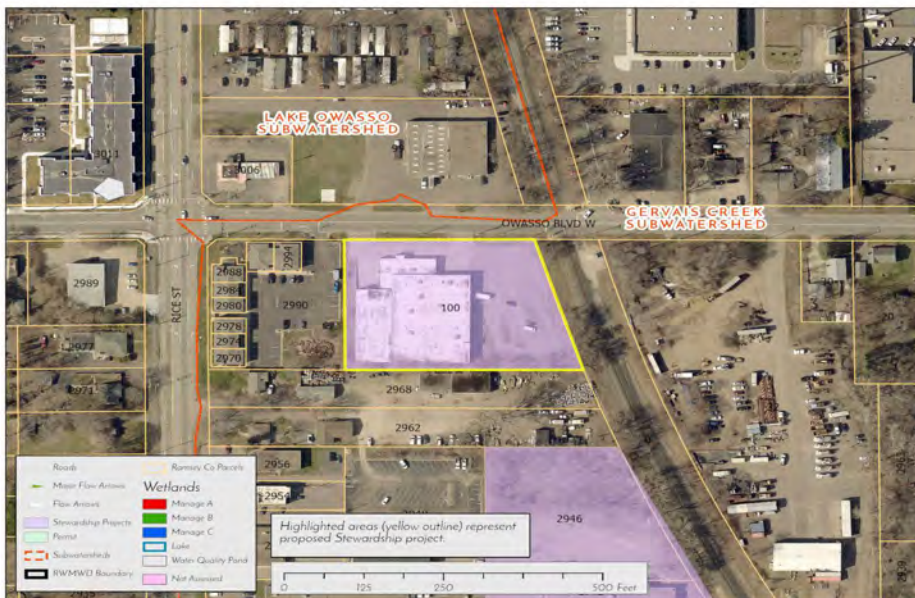
### Recommendation:

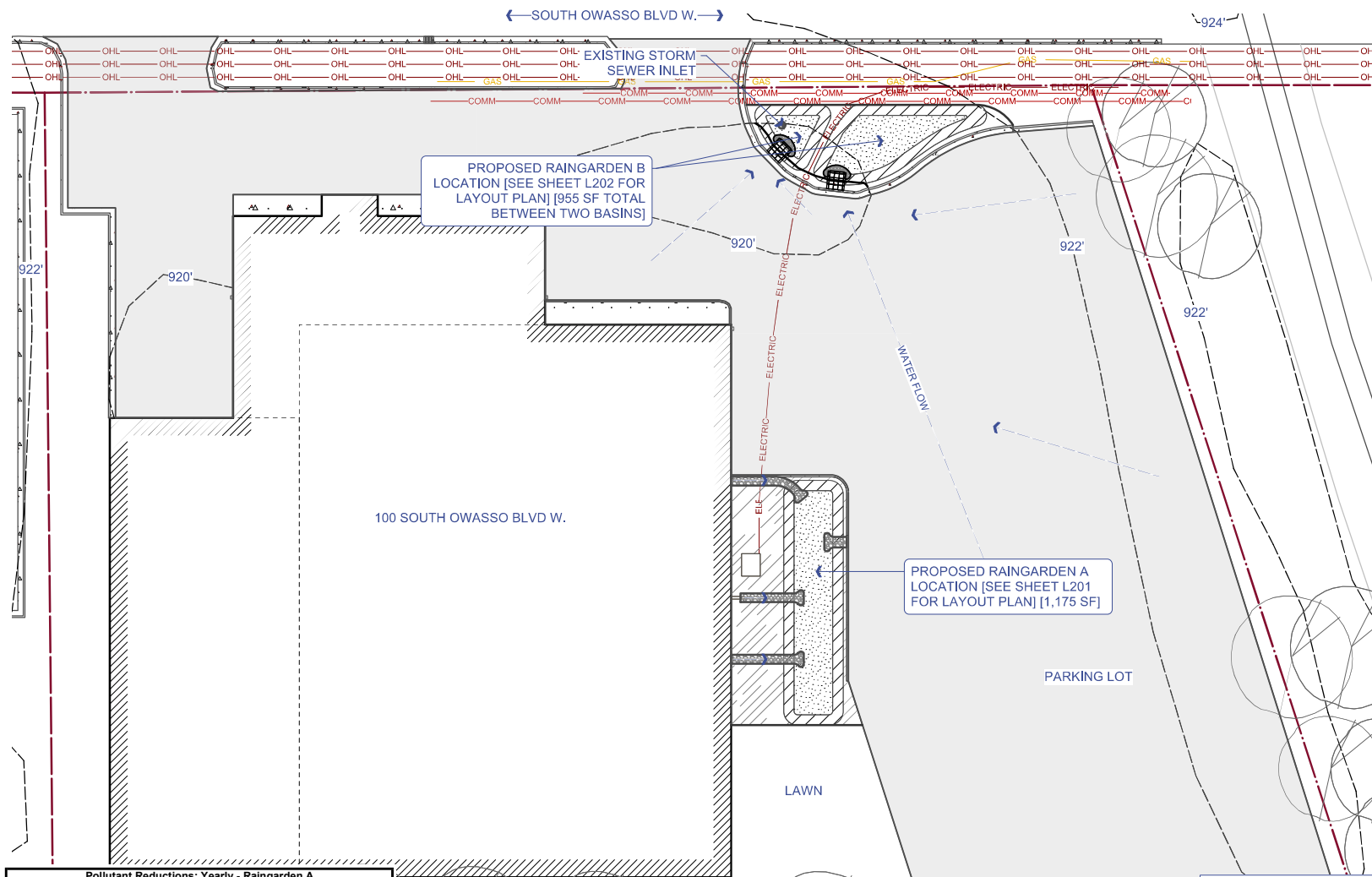
Staff recommends approval of this application.

### Subwatershed:

Gervais Creek

### Location Maps:





Pollutant Reductions: Yearly - Raingarden A				
	Before	After	Reduction	Red. %
Volume (cu-ft/yr)	39,900	11,290	28,610	72%
TSS (lbs/yr)	135.79	38.42	97.37	72%
TP (lbs/yr)	0.748	0.212	0.536	72%

Pollutant Reductions: Yearly - Raingarden B				
	Before	After	Reduction	Red. %
Volume (cu-ft/yr)	104,879	69,456	35,423	34%
TSS (lbs/yr)	356.92	236.36	120.56	34%
TP (lbs/yr)	1.965	1.301	0.664	34%

Watershed Data BMP 1- Raingarden A			
Target Rainfall	0.79	in	from winslamm
Soil Type:	B	HSG:	
Soil IR	0.45	in/hr	
Surface	Sq-ft	Acre	CN
Roof	16,470	0.378	98
Turf Grass/Lawn	4,720	0.108	79
Total	21,190	0.486	
% Imp	78%		

Watershed Data BMP 2- Raingarden B			
Target Rainfall	0.38	in	from winslamm
Soil Type:	B	HSG:	
Soil IR	0.3	in/hr	
Surface	Sq-ft	Acre	CN
Parking Lot	33,985	0.780	98
Roof	5,080	0.117	98
Sidewalk	370	0.008	98
Turf Grass/Lawn	7,575	0.174	79
Total	47,010	1.079	
% Imp	84%		

PLAN LEGEND:	
	NATIVE PLANTING
	DRY CREEK BED ROCK & RAINGARDEN OVERFLOW ROCK
	FLAT RAINGARDEN BASIN
	RAINGARDEN SIDE SLOPES

**RAMSEY COUNTY**

RAMSEY COUNTY SWCD  
2015 VAN DYKE STREET  
MAPLEWOOD, MN 55109  
651-266-7280  
www.ramseycounty.us

PROJECT:  
ESCAPE CLIMBING

LOCATION:  
100 SOUTH OWASSO BLVD W.  
LITTLE CANADA, MN 55117

WATERSHED DISTRICT:  
 RAMSEY-WASHINGTON  
METRO WATERSHED DISTRICT

DESIGNER: BRIAN T. OLSEN  
DATE: 3/28/2023  
PAST REVISION:  
PAST REVISION:  
PAST REVISION:  
CHECKED BY:  
TAA:

NOTES:  
-CONTACT GOPHER STATE ONE CALL TO  
CONFIRM UTILITY LOCATIONS  
-ELEVATIONS ARE APPROXIMATE,  
SITE VERIFY  
-VERIFY ANY BID ALTERNATES OR ONSITE  
CHANGES WITH SWCD STAFF PRIOR TO  
INSTALLATION  
-ORIGINAL SHEET SIZE: 11"x17"

SCALE: 1"=30'-0"

N

SITE PLAN

L100

## Stewardship Grant Application Summary

**Project Name:** Kosobayashi Ph 3

**Application Number:** 23-21 CS

**Board Meeting Date:** 6/7/2023

**Applicant Name:** Helen Kosobayashi

**Residential** ☒

**Commercial/Government** ☐

### Project Overview:

This project is located off Western Ave N and County Rd C in the City of Roseville. The applicant has completed two phases (18-26 CS and 20-42 CS) of restoration work on their property and is proposing to complete this third and final phase with these grant funds. The project area is in the back yard and is a steep slope going down to the pond. The applicant is proposing to add native plants to help stabilize soils, reduce erosion, and create a pond buffer.

This project is eligible for 50% funding up to \$15,000.

### BMP type(s):

Native Habitat Restoration(1)

### Grant Request:

\$8,100.00

### Recommendation:

Staff recommends approval of this application.

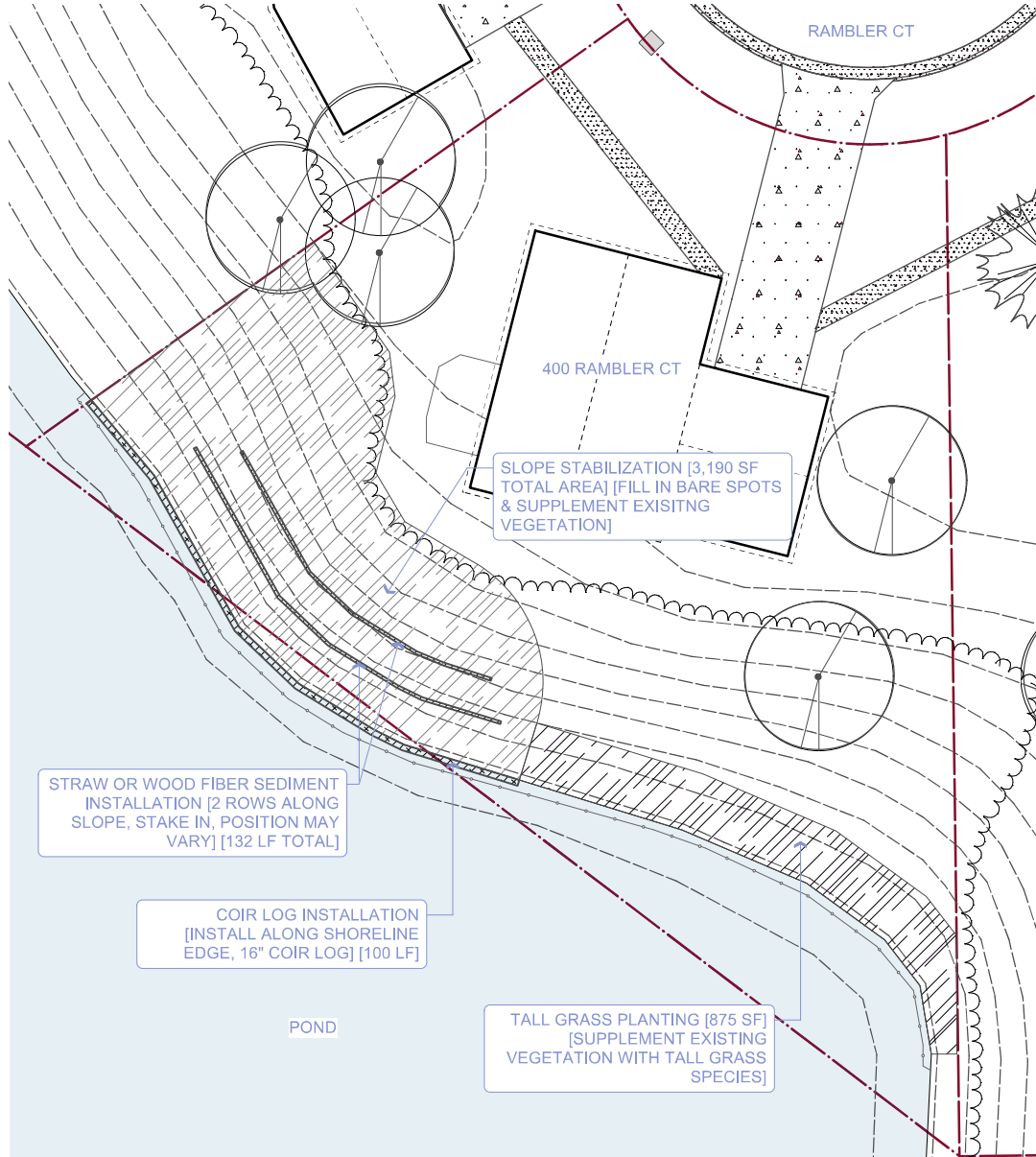
### Subwatershed:

Lake Owasso

### Location Maps:







#### PROJECT NOTES:

1. FROM WEST PROPERTY LINE TO 100 LF EAST INSTALL 16" COIR LOG ALONG SHORELINE EDGE. SECURE WITH HARDWOOD STAKES & COIR ROPE. SEE DETAILS ON SHEET L300. REMOVAL OF EXISTING BRUSH DEBRIS/BUNDLES AS NECESSARY.
2. INSTALL 6" STRAW OR WOOD FIBER SEDIMENT LOGS PERPENDICULAR TO THE SLOPE ALONG THE STEEPEST PORTION OF PROPERTY. [SEE PLAN FOR APPROXIMATE LOCATIONS, NUMBER OF ROWS AND LOCATION MAY VARY, SITE VERIFY HIGH RISK EROSION AREAS, STAKE WITH HARDWOOD STAKES TO SECURE] [132 LF TOTAL]
3. SLOPE STABILIZATION: INSTALL NATIVE SEED MIX IN BARE SOIL AREAS. PREP SOIL BED IN AREAS WITH BARE SOIL PRIOR TO INSTALLING SEED MIX.
4. HAND BROADCAST SEED MIX OVER BARE SOILS AREAS, RAKE AND COVER IN C125 EROSION CONTROL BLANKET OR EQUIVALENT. SECURE BLANKET PER MANUFACTURERS SPECIFICATIONS.
5. OVER ENTIRE SLOPE STABILIZATION AREA [3,190 SF] INSTALL 2" PLUGS OF NATIVE SPECIES TO SUPPLEMENT EXISTING VEGETATION & SEEDED AREAS. SEE USE SPECIES FROM WITHIN SUGGESTED SEED MIX OR EQUIVALENT. SEE SHEET L200 FOR PROPOSED QUANTITIES AND PLANTING NOTES.
6. ON EAST SIDE OF PROPERTY SUPPLEMENT EXISTING VEGETATION WITH PLANTING OF TALL-GRASS NATIVE SPECIES. [875 SF] SEE PLAN FOR LOCATION, PLANT APPROXIMATELY 10' WIDE BUFFER ALONG SHORELINE.
7. REPAIR/INSTALL HERBIVORE EXCLUSION FENCE ALONG ENTIRE WATERWARD SIDE OF PLANTINGS. [195 LF]
8. REPAIR/INSTALL DEER HEIGHT HERBIVORE EXCLUSION FENCE ALONG SIDES OF PROPERTY AS NOTED ON PLAN. [190 LF TOTAL]
9. CONTRACTOR TO ENSURE AS MINIMAL DAMAGE TO PLANTING AREAS OUTSIDE OF PROPOSED AREAS. ANY DAMAGE OUTSIDE OF PROPOSED PLANTING AREAS TO BE RESTORED WITH ADDITIONAL NATIVE PLANTINGS AS NECESSARY.



RAMSEY COUNTY SWCD  
2015 VAN DYKE STREET  
MAPLEWOOD, MN 55109  
651-266-7280  
www.ramseycounty.us

PROJECT:  
KOSOBAYASHI RESIDENCE

LOCATION:  
400 RAMBLER CT  
ROSEVILLE, MN 55113

WATERSHED DISTRICT:



DESIGNER: BRIAN T. OLSEN

DATE: 4/5/2023

PAST REVISION:

PAST REVISION:

PAST REVISION:

CHECKED BY:

TAA:

NOTES:  
ORIGINAL SHEET SIZE: 11" x 17"

SCALE: 1"=20'0"



SITE PLAN

L100

## Stewardship Grant Application Summary

**Project Name:** Snail Lake Aquatic Vegetation Harvesting 2023 **Application Number:** 23-22 CS

**Board Meeting Date:** 6/7/2023

**Applicant Name:** Tom Wesolowski

**Residential** ☐ **Commercial/Government** ☒

### Project Overview:

As part of the 2018 Stewardship Grant Program, RWMWD offered 50% cost share funding up to \$15,000 for materials and labor associated with harvesting aquatic plants. The City of Shoreview, on behalf of the Snail Lake Improvement District (SLID), will be contracting manual lake weed harvesting services for Eurasian watermilfoil and curly leaf pondweed on Snail Lake. Harvesting will be performed in areas identified by a survey completed by Ramsey County Parks and Recreation to remove organically-bound phosphorous within the plants and will also enhance recreational access. Harvesting will occur in June and will take one week to complete. The applicant has received an Invasive Aquatic Plant Management Permit from the MnDNR.

### BMP type(s):

Aquatic Vegetation Harvesting(1)

### Grant Request:

\$15,000.00

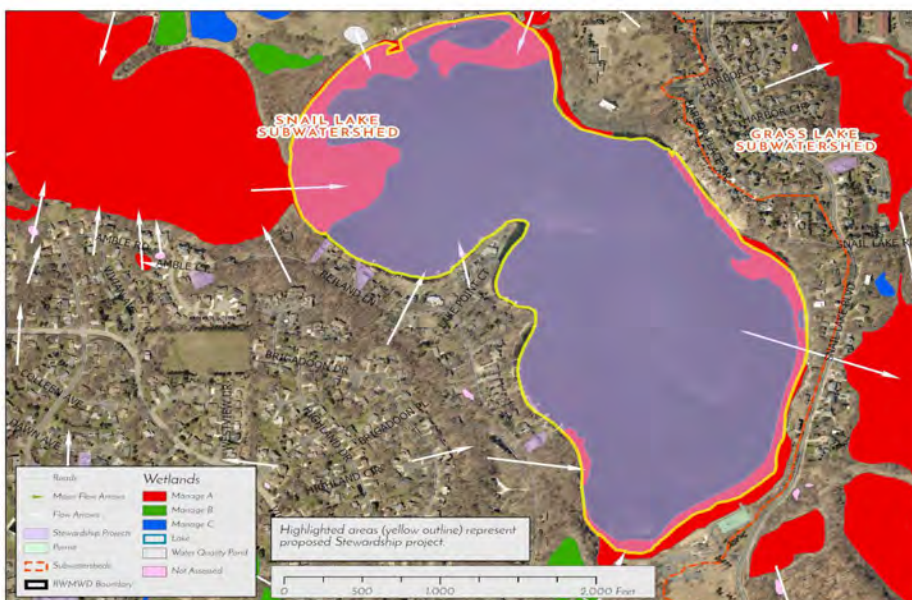
### Recommendation:

Staff recommends approval of this application.

### Subwatershed:

Snail Lake

### Location Maps:





# Snail Lake

Eurasian Watermilfoil and  
Curly Leaf Pondweed Delineation  
May 10, 2023

**Legend**

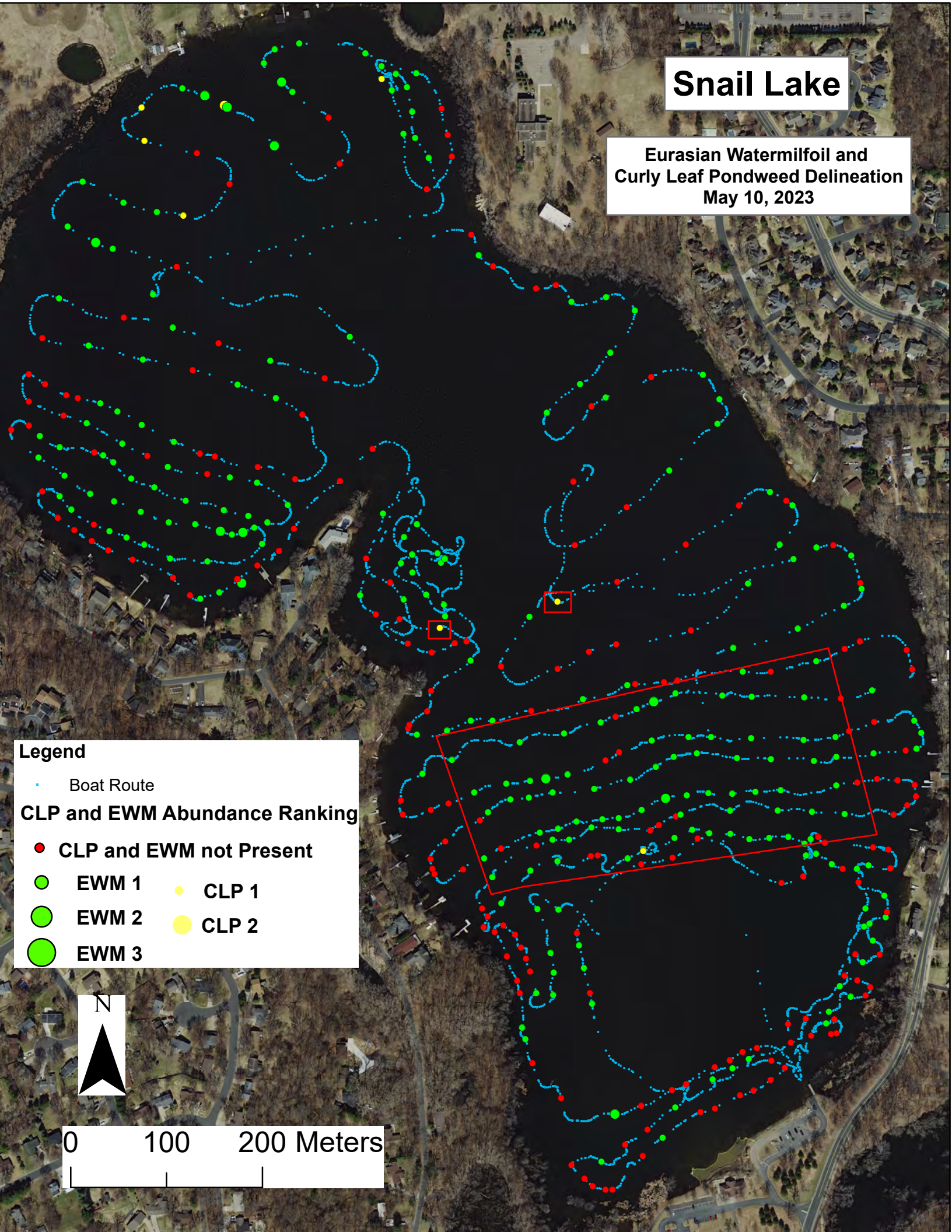
Boat Route

**CLP and EWM Abundance Ranking**

CLP and EWM not Present	
EWM 1	CLP 1
EWM 2	CLP 2
EWM 3	



0 100 200 Meters



## Stewardship Grant Application Summary

**Project Name:** Nelson

**Application Number:** 23-23 CS

**Board Meeting Date:** 6/7/2023

**Applicant Name:** Gary Nelson

**Residential** ☒

**Commercial/Government** ☒

### Project Overview:

This project is located off Flandreau St and Frost Ave in the City of Maplewood. The applicant is a member of our Citizen Advisory Committee and reached out to express interest in developing plans to refurbish an existing rain garden to achieve maximum water quality benefit and improve the native vegetation in the garden. The existing rain garden was installed in 2003 through a City of Maplewood Street Improvement Project. A curb cut will be added to collect street runoff, accumulated sediment will be removed, and native vegetation will be added.

The curb cut is eligible for 100% funding and the rain garden work is eligible for 75% funding up to \$15,000.

### BMP type(s):

Rain Garden(1)

### Grant Request:

\$7,519.00

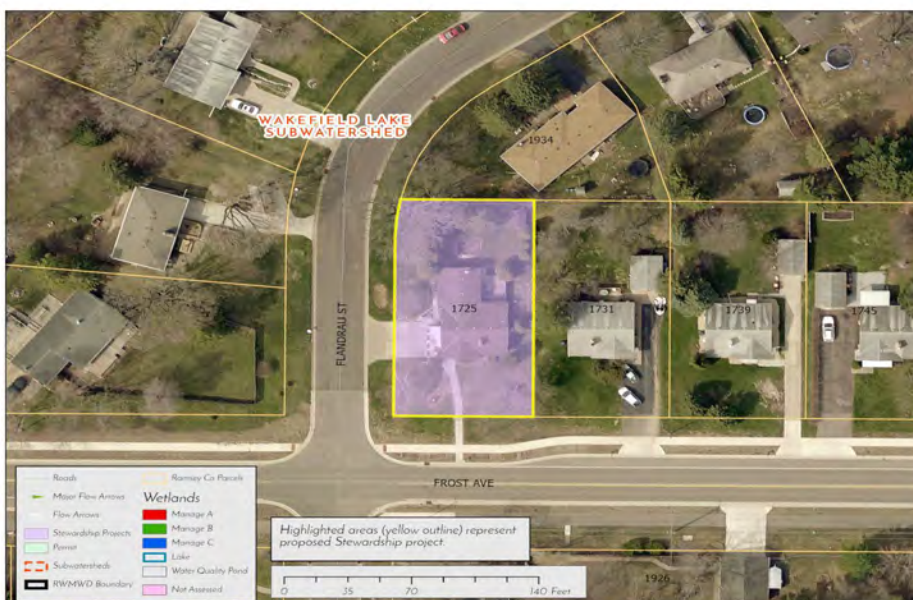
### Recommendation:

Staff recommends approval of this application.

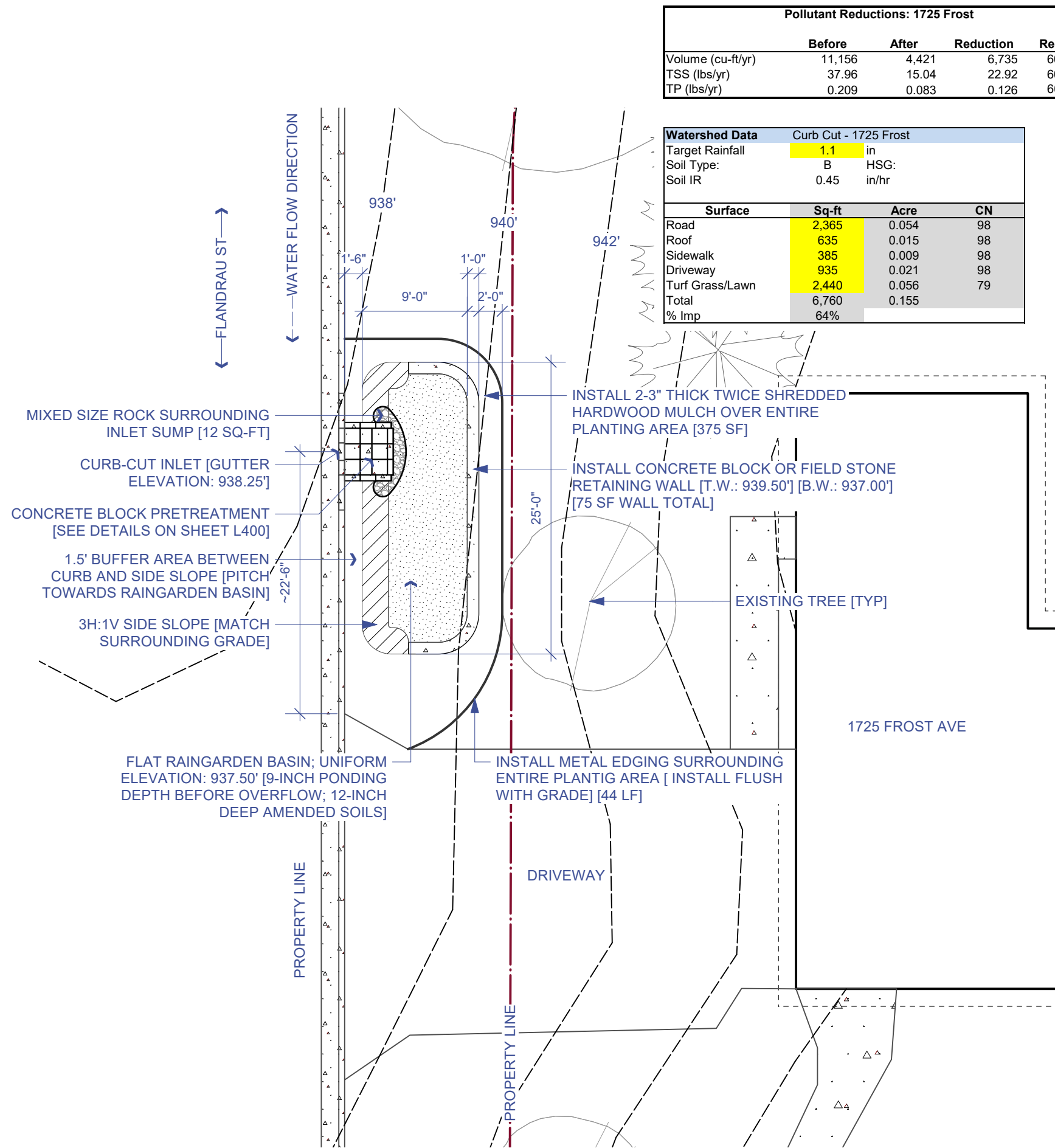
### Subwatershed:

Wakefield Lake

### Location Maps:







PROJECT NOTES: EXISTING RAINGARDEN REFURBISHMENT

1. REMOVE EXISTING VEGETATION WITHIN EXISTING RAINGARDEN BASIN & PROPOSED PLANTING AREA. [435 SF].
2. SAW-CUT EXISTING CURB AT LOCATION SHOWN ON PLANS FOR RAINGARDEN INLET. VERIFY EXACT LOCATION PRIOR TO INSTALL WITH RCSWCD STAFF.
3. PROTECT RAINGARDEN AREA FROM COMPACTION. EXCAVATE WITH TRACKED EQUIPMENT ONLY.
4. RIP UNDERLYING SOILS 12" MINIMUM TO REMOVE COMPACTION.
5. RE-GRADE OUT 210 SF RAINGARDEN AREA WITH 3H:1V: SIDE SLOPES AND FLAT RAINGARDEN BASIN. INSTALL 12" AMENDED SOILS IN RAINGARDEN BASIN.
6. CONTRACTOR TO PROPERLY PREPARE PLANTING BED FOR PLANT INSTALLATION PER PLANS AND ENSURE ALL COMPETING VEGETATION IS SUFFICIENTLY ERADCATED PRIOR TO PLANTING NATIVE SPECIES AND INSTALLING MULCH.
7. EXISTING CANOPY TREES NEAR PROJECT AREA TO BE PROTECTED AND REMAIN IN PLACE. EXACT LOCATIONS AND NUMBER MAY VARY FROM PLANS. SITE VERIFY.
8. INSTALL CONCRETE PAVER STEP-DOWN & SUMP STRUCTRE PER PLANS. INSTALL NON-WOVEN GEOTEXTILE FABRIC BETWEEN ROCK AND SOIL FOR SPLASH AREA NEAR INLET STRUCTURE.
9. CONTRACTOR TO PROVIDE ADEQUATE TEMPORARY PERIMETER & EROSION CONTOL MEASURES DURING ANY SOIL DISTURBANCE PERIODS.
10. INSTALL 2-3" THICK TWICE SHREDDED HARDWOOD MULCH OVER ENTIRE PLANTING AREAS PER PLANS.
11. EXACT SIZE/LOCATION/LAYOUT OF RAINGARDEN MAY VARY.
12. CONTRACTOR TO VERIFY ANY REQUIRED CHANGES WITH RCSWCD PRIOR TO INSTALLATION. MAINTAIN SQUARE FEET AND PONDING DEPTH.
13. CONTRACTOR TO AQIRE ANY NECESSARY PERMITS PRIOR TO BEGINNING WORK.
14. ELEVATIONS PROVIDED ARE APPROXIMATE, SITE VERIFY FINAL ELEVATIONS TO ENSURE PROPER PONDING DEPTH, OVERLOW, ETC.
15. SEE DETAILS ON SHEETS L300 & L400 FOR RAINGARDEN, CURB-CUT, AND INLET STRUCTURE.
16. PLANT RAINGARDEN AREA ACCORDING TO PLANTING PLAN PROVIDED ON SHEET L200.

LEGEND



3H:1V RAINGARDEN SIDE SLOPE



FLAT RAINGARDEN BASIN



PARCEL BOUNDARY (APPROX.)



2' CONTOUR ELEVATION (UNLESS NOTED)



RAMSEY COUNTY SWCD

2015 VAN DYKE ST N  
MAPLEWOOD, MN 55109  
651-266-7280  
www.ramseycounty.us

PROJECT: NELSON RESIDENCE

LOCATION:  
1725 FROST AVE  
MAPLEWOOD, MN 55109

WATERSHED DISTRICT:



DESIGNER: BTO

DATE: 7/15/2022

REVISION:

REVISION:

REVISION:

REVISION:

CHECKED BY:

TAA:

NOTES:

- ELEVATIONS ARE APPROXIMATE
- UTILITY LOCATIONS ARE APPROXIMATE, CONFRIM LOCATIONS PRIOR TO WORK
- CONTRACTOR AQIRE NECESSARY PERMITS PRIOR TO START
- EXCAVATE WITH TRACKED EQUIPMENT ONLY
- RIP UNDERLYING SOILS 6-12" TO REMOVE COMPACTION
- SIZE AND SHAPE OF RAINGARDEN MAY VARY
- MAINTAIN SQUARE FEET AND PONDING DEPTH
- ORIGINAL SHEET SIZE: 11"x17"

SCALE: 1"=10'-0"



LAYOUT PLAN

L100

\* \* \* \* \*

# Permit Program

\* \* \* \* \*

# Permit Application Coversheet

Date June 07, 2023

Project Name Maplewood Myrtle-Sterling 2023 SIP

Project Number 23-15

Applicant Name Tyler Strong, City of Maplewood

Type of Development Linear

## Property Description

This project is located near Larpenteur Avenue East and McKnight Road North in the City of Maplewood. The applicant is proposing to complete residential roadway improvements, including a combination of full reconstruction and pavement rehabilitation. The proposed scope of work also includes curb and gutter, watermain repair/replacement, and new sidewalk east of Lakewood Drive. The total site area is approximately 3.5 acres. A three-celled infiltration basin in Hillside Park is proposed to partially meet stormwater treatment requirements. Pretreatment will include sumped catch basins with SAFL baffles. The remainder of the volume reduction requirement will be met through a deduction from the city's available banked volume credits (9,801 cf), due to poor onsite soils and spatial constraints. Three wetlands within the project area were delineated (#23-06 WCA). A variance request for wetland and buffer impacts is included for board consideration to accommodate a new flared end from the proposed infiltration basin, riprap, and temporary disturbance due to site grading. Construction activity is proposed to take place below the 100-year water surface elevation of the Hillside Park wetland (989.9'). The applicant has demonstrated through cut/fill volumes that there will be no net fill in the floodplain.

## Watershed District Policies or Standards Involved:

☒ *Wetlands*

☒ *Erosion and Sediment Control*

☒ *Stormwater Management*

☒ *Floodplain*

## Water Quantity Considerations

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

## 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.

## Staff Recommendation

Staff recommends approval of this permit with the variance request (Rule E).

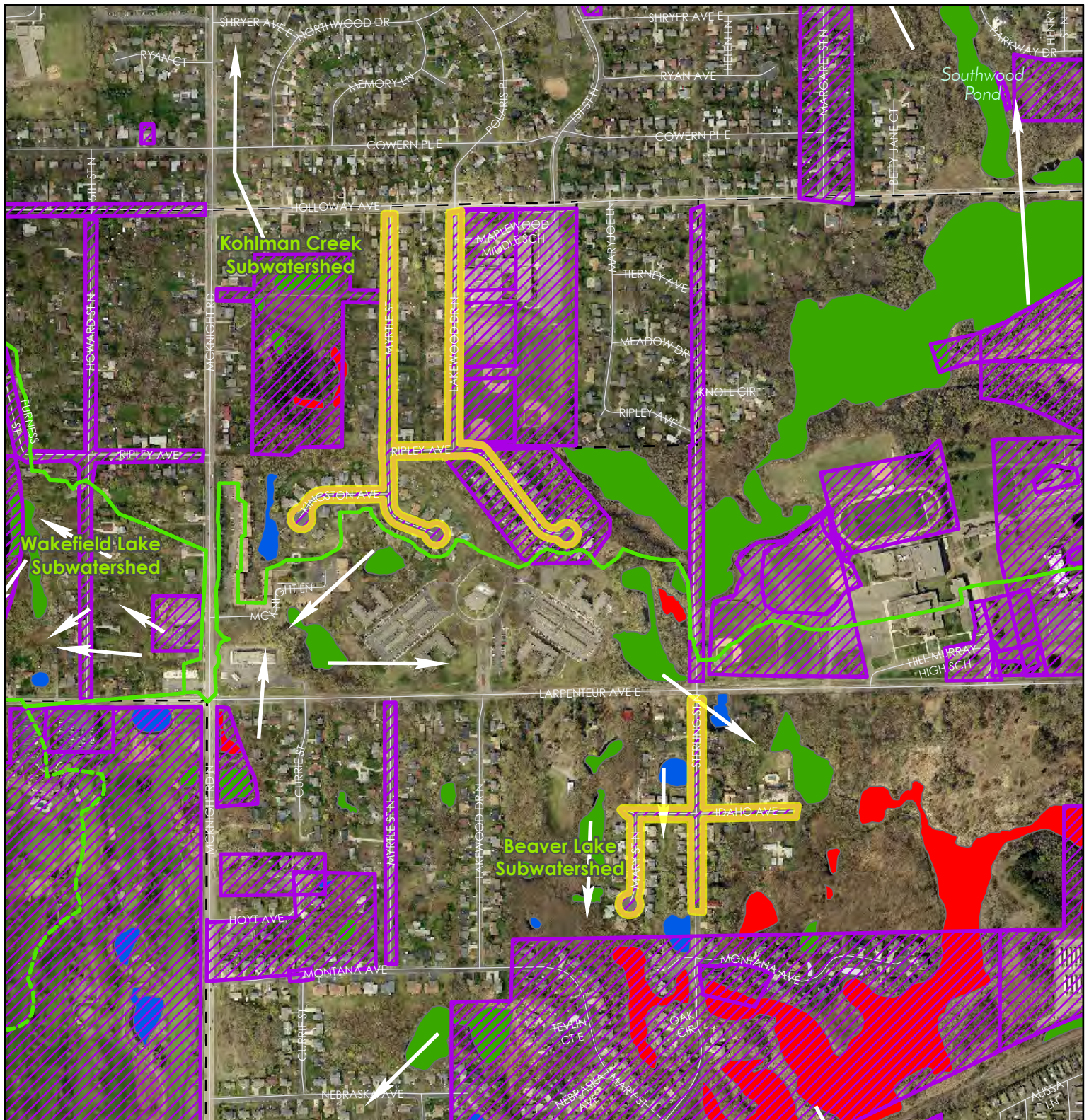
## Attachments:

☒ Project Location Map

☐ Project Grading Plan

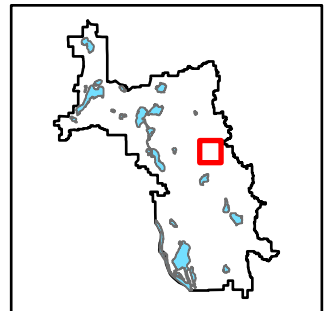
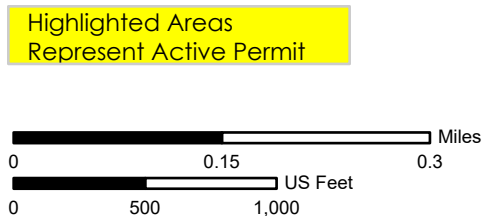


# #23-15 Maplewood Myrtle-Sterling 2023 SIP



Wetlands	
<span style="display:inline-block; width:15px; height:15px; background-color:red;"></span>	Manage A
<span style="display:inline-block; width:15px; height:15px; background-color:green;"></span>	Manage B
<span style="display:inline-block; width:15px; height:15px; background-color:blue;"></span>	Manage C
<span style="display:inline-block; width:15px; height:15px; border:1px solid blue;"></span>	Lake
<span style="display:inline-block; width:15px; height:15px; background-color:lightgrey;"></span>	Sediment Pond
<span style="display:inline-block; width:15px; height:15px; background-color:lightpurple;"></span>	Not Assessed

<span style="display:inline-block; width:15px; height:15px; border-bottom:1px solid black;"></span>	Flow Arrows
<span style="display:inline-block; width:15px; height:15px; border-bottom:1px solid black;"></span>	Roads
<span style="display:inline-block; width:15px; height:15px; border:1px dashed black;"></span>	Permits
<span style="display:inline-block; width:15px; height:15px; border:1px solid black;"></span>	Cities
<span style="display:inline-block; width:15px; height:15px; border:1px dashed green;"></span>	Subwatersheds
<span style="display:inline-block; width:15px; height:15px; border:2px solid black;"></span>	RWMWD Boundary





23-15

## Special Provisions

None



## Memorandum

**Date:** May 25, 2023  
**To:** Ramsey Washington Metro Watershed District (RWMWD) Board of Managers  
**From:** Tyler Strong, City of Maplewood, Civil Engineer I  
**Subject:** Wetland Buffer Variance Request, Myrtle-Sterling Area Street Improvements, City of Maplewood Project Number 22-16

The City of Maplewood is proposing improvements to the Myrtle-Sterling area neighborhood streets as a part of its Capital Improvement Program (CIP). Attached in Exhibit 1 is the project location map. The project scope is a combination of full reconstruction methods and pavement rehabilitation methods depending on the existing street conditions and underlying utilities or lack thereof. Below is a summary of what is being proposed on each individual street.

- Pavement rehabilitation of the following streets to include; full depth reclamation (FDR) of existing pavement and underlying aggregate base, full replacement of the existing bituminous pavement, spot replacement of concrete curb and gutter and subgrade corrections as necessary.
  - Idaho Avenue (west of Sterling Street)
  - Kingston Avenue
  - Knoll Circle
  - Lakewood Drive (south of Ripley Avenue)
  - Mary Street
  - Myrtle Street (south of Ripley Avenue)
  - Ripley Avenue
- Full reconstruction of the following streets to include; removal of existing pavement and underlying aggregate base, extensive soil subgrade corrections, major utility improvements, water quality improvements and construction of new concrete curb and gutter.
  - Idaho Avenue (east of Sterling Street)
  - Lakewood Drive (north of Ripley Avenue)
  - Myrtle Street (north of Ripley Avenue)
  - Sterling Street (South of Larpenteur Avenue)
- Saw & seal of control joints for the new bituminous pavement.
- Removal and replacement of outdated pedestrian features on project streets and the installation of a new sidewalk on the east side of Lakewood Drive.
- Replacement of outdated sanitary and storm sewer castings and structures
- Addition of new storm sewer systems on select streets.
- Restoration of driveways, turf and landscape features impacted by the project.

As a part of the project a drainage study and design was performed for the streets which currently lack sufficient storm sewer system to collect, capture and treat runoff before entering receiving wetlands. After the study and design of the storm sewer system had been completed and there is one location on the project where a storm sewer flared-end and rip-rap is proposed to constructed within a wetland.

The impacted wetland is the Hillside Park Wetland, see Exhibit 2 for the wetland location. Permanent impacts to the wetland are a result of the necessary flared end and rip rap installation to properly collect, convey and treat the surface runoff from Myrtle Street. Temporary impacts will be in place no longer than 90 days, per U.S. Army Corps of Engineers requirements.

The Hillside Park Wetland resides in the Kohlman Creek Subwatershed. See Exhibit 2 for a map of the wetland and its size. The Wetland is defined as Manage B on the RWMWD interactive wetland map classification tool. A wetland delineation was performed as required by the permit. Manage B wetlands require a minimum buffer width of 25 feet. Due to the necessary flared end and rip rap installation maintaining the minimum buffer width will not be possible and a variance is required.

Temporary impacts will be restored within 90 days of construction and will follow all local and state regulations for erosion and sediment control. Any disturbed areas will be restored with MnDOT seed mixture 33-261 for storm water facilities. All disturbed areas within the buffer zone shall be restored with seeding and blanket to match existing conditions. The City of Maplewood, or a contractor designated by them, will be responsible for monitoring the buffer for three years following construction, along with other rules, per requirements set by the Ramsey-Washington Metro Watershed District (RWMWD).

The impact location can be seen in Exhibit 3. Temporary impacts are estimated to be around 200 square feet. Permanent impact is to total 92 square feet, which meets the requirement of the "de minimis" impact for this type of wetland of 100 square feet. It should be noted the original design was refined from over 400 square feet of permanent impact to the current 92 square feet of impact. The redesign involved pulling the flared end and rip rap much further out of the wetland. This change created additional excavation, grading and cost to the project but greatly reduced the amount of permanent and temporary impact to the wetland to the extent possible.

Due to site constraints and existing drainage patterns, it is not possible to meet buffer requirements and avoid all wetland impacts. A variance is being requested for the Hillside Park Wetland to be in place for 90 days during construction.

It should also be noted, in order to build the new road section there will be some grading occurring within the wetland buffer located in Exhibit 4, there is no grading within the wetland. There will be no permanent impacts to the wetland or its buffer. For this wetland in exhibit 4, we are requesting a variance for the temporary disturbance due to the grading within the wetland buffer.

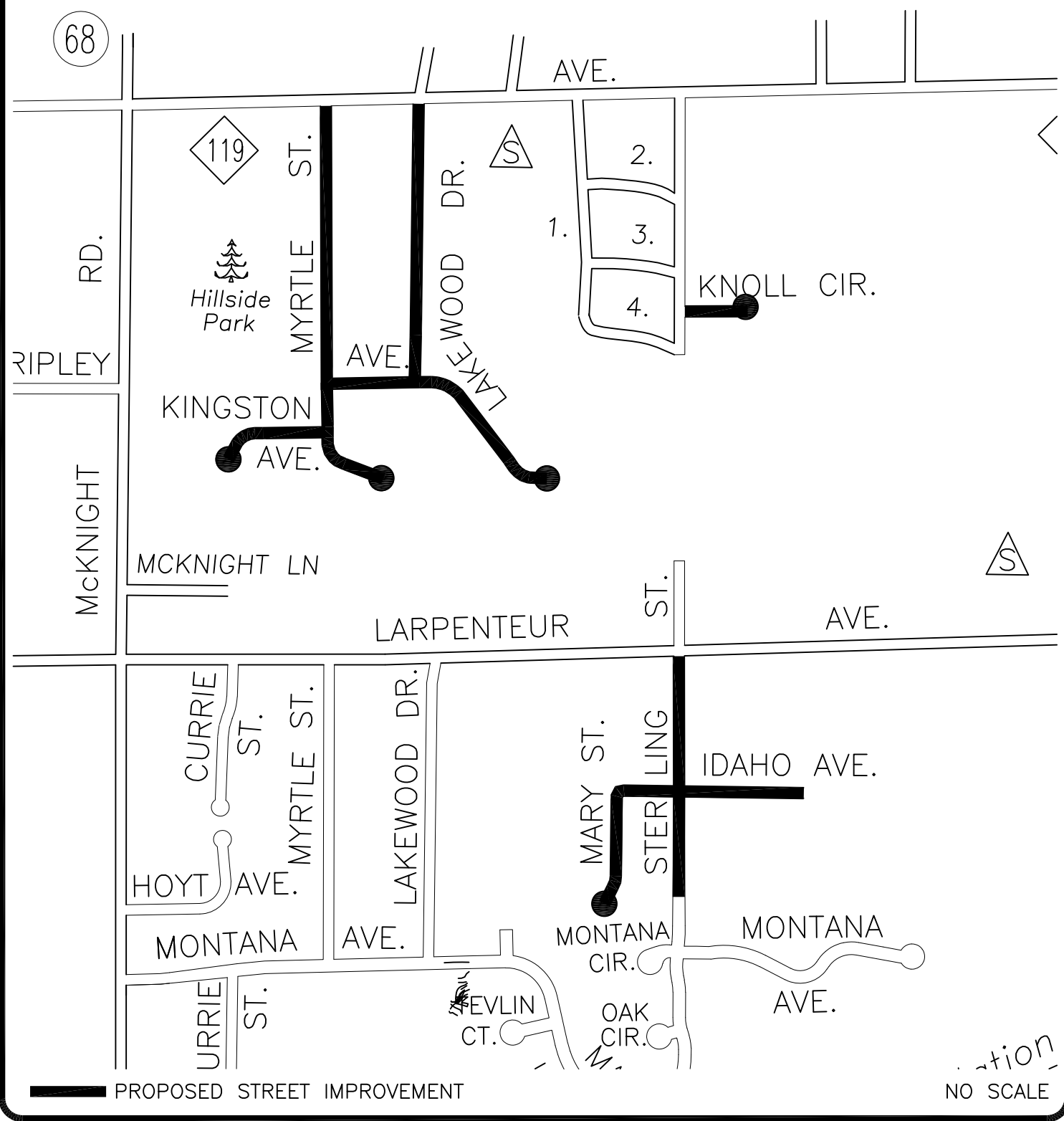
Exhibit 1 – Project Location Map

Exhibit 2 – Hillside Park Wetland Location Map

Exhibit 3 – Proposed Impact to Hillside Park Wetland

Exhibit 4 – Sterling @ Larpenteur Wetland

# NORTH ST. PAUL



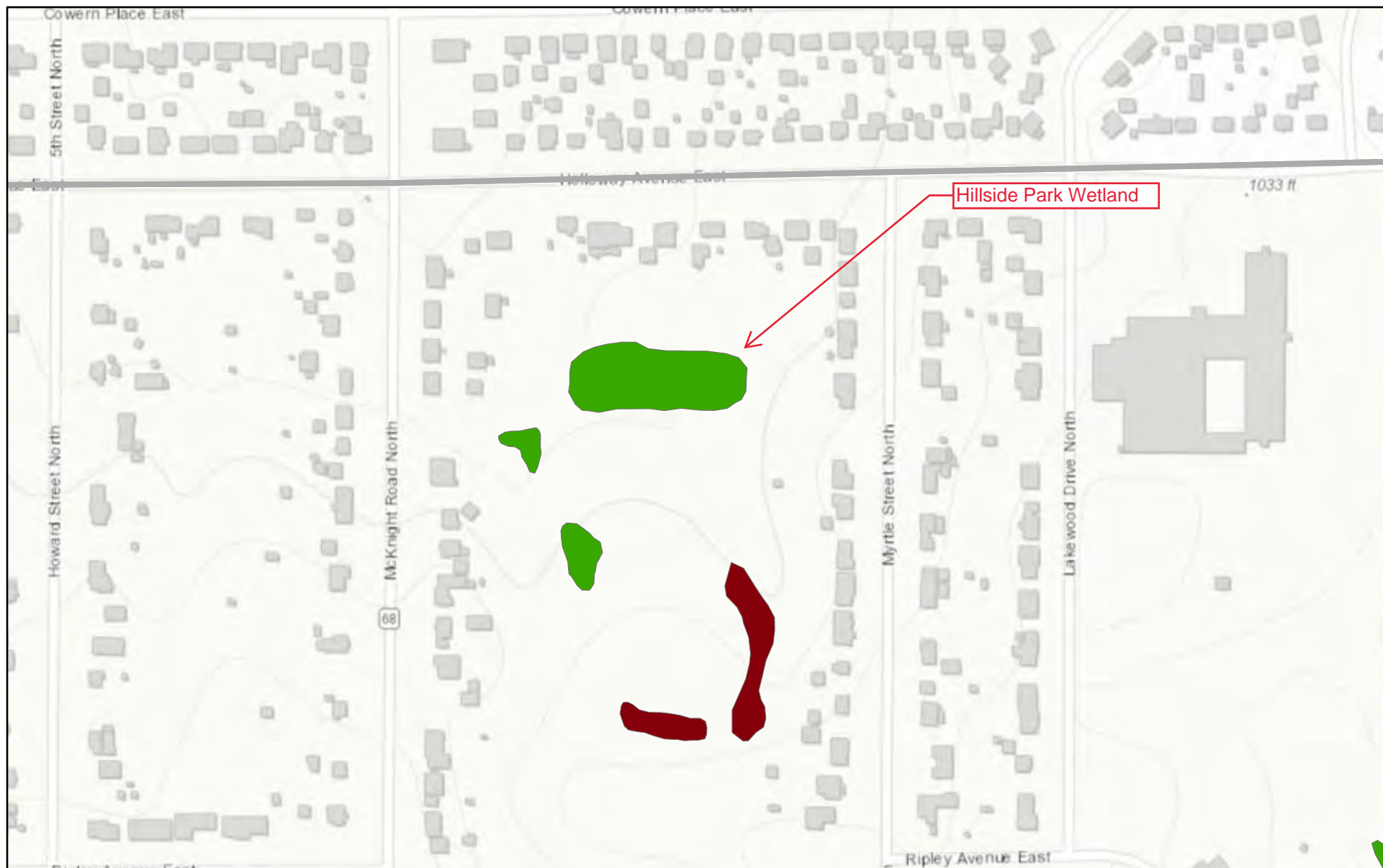
**Myrtle-Sterling Area Street Improvements**  
**Project Location Map**  
**City Project 22-16**



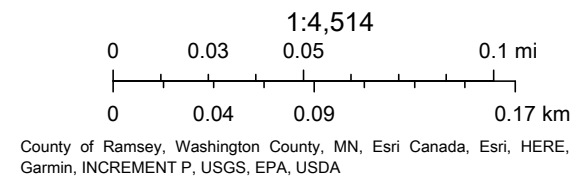


# Hillside Park Wetland

Exhibit 2



May 25, 2023



**Hillside Park Wetland**

(orange+green)

WETLAND DELINEATION LINE

INSTALL 18 CY RANDOM RIPRAP CLASS III & 30 SY OF NON-WOVEN GEOTEXTILE FABRIC TYPE 4.  
SCOUR BASIN BOTTOM IS 6' WIDE BY 9' LONG, WITH 3:1 SIDE SLOPES.

8' WIDE BITUMINOUS TRAIL. TAPER (OVER A LENGTH OF 12') TO 10' WIDE AT THE TRAIL INTERSECTION.

10' WIDE BITUMINOUS TRAIL FROM THE MATCH IN POINTS TO THE INTERSECTION.  
15' RADII AT THE INTERSECTION

22.5 DEGREE BEND

MYRTLE ST

CONC

BIT

307

306

303

314C

315C

316C

311C

312C

313C

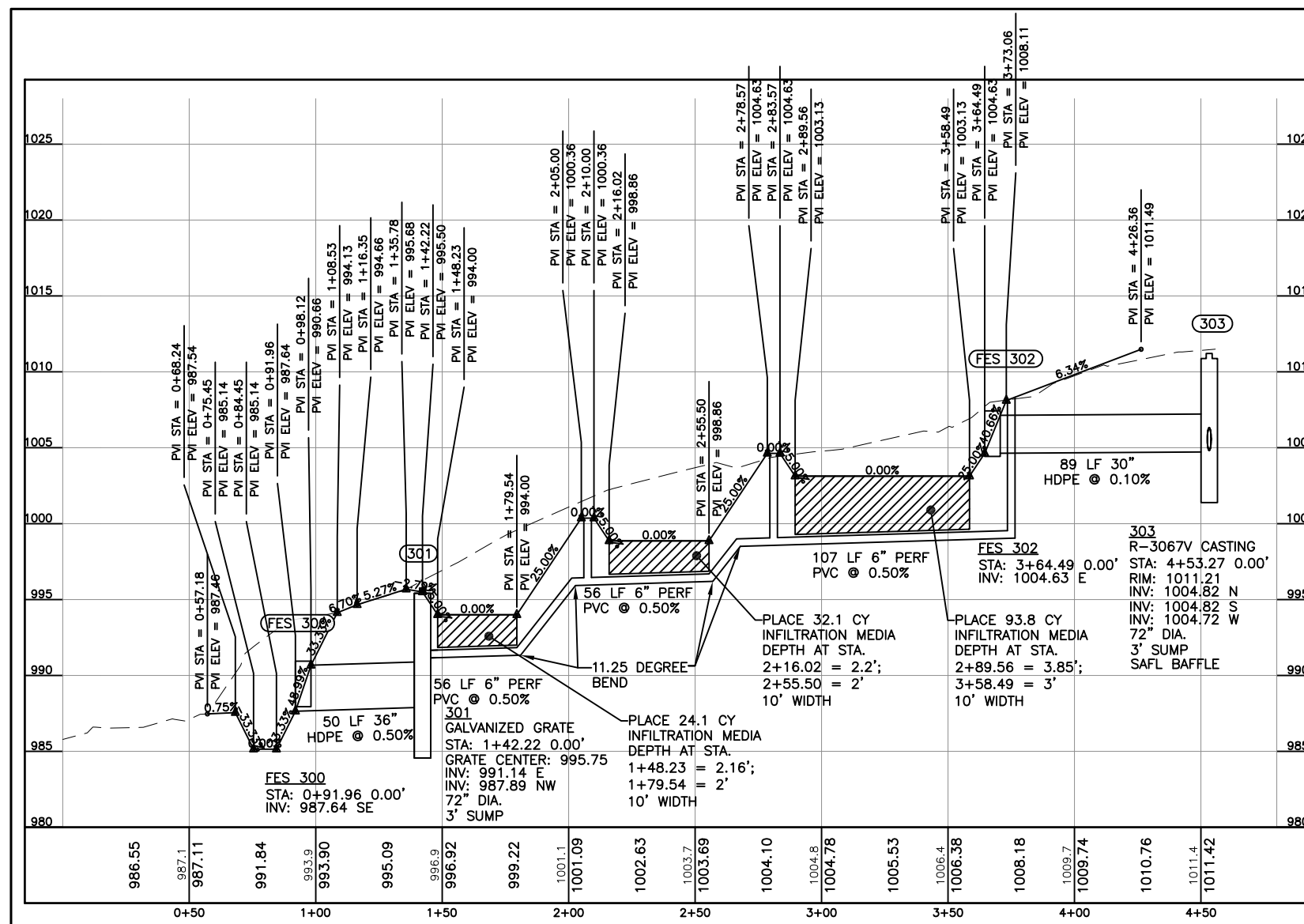
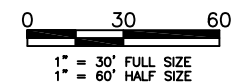
FES 302

1887

Exhibit 3

# HILLSIDE PARK STORM

SEE APPENDIX IN THE  
SPECIFICATIONS FOR SOILS  
INFORMATION AND TEST PIT  
LOCATIONS



DATE 4/7/2023 LICENSE NO. 49105

ASSIGNED TMS  
 OWN NAB  
 CHECKED JEJ

INFILTRATION AREAS  
AND STORM SEWER

DATE	DESCRIPTION
5/10/23	FES 300 location changed

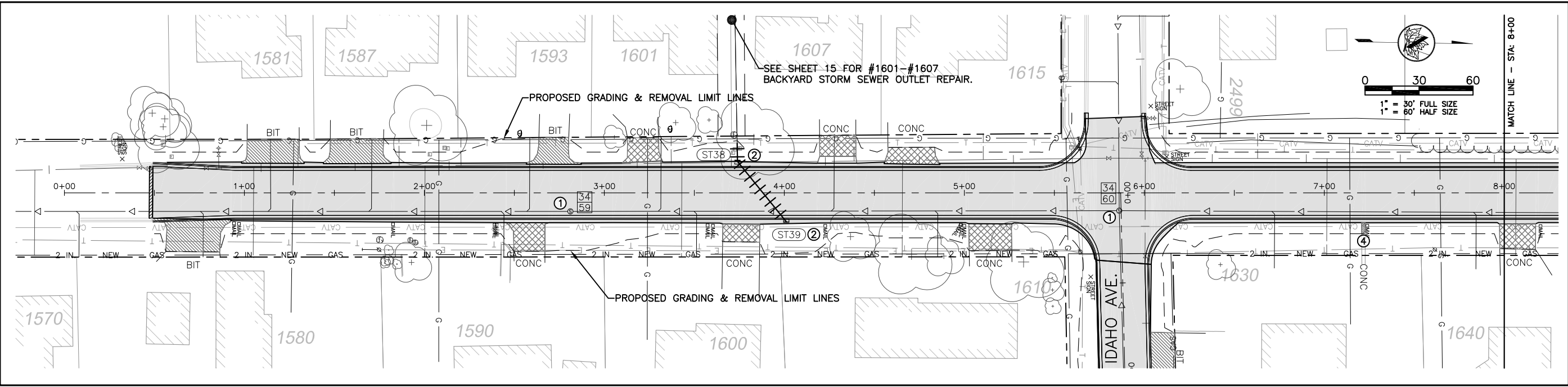
CORD DRAWING  
X \_\_\_\_\_  
TE \_\_\_\_\_

RD NUMBER

SHEET NO.

41



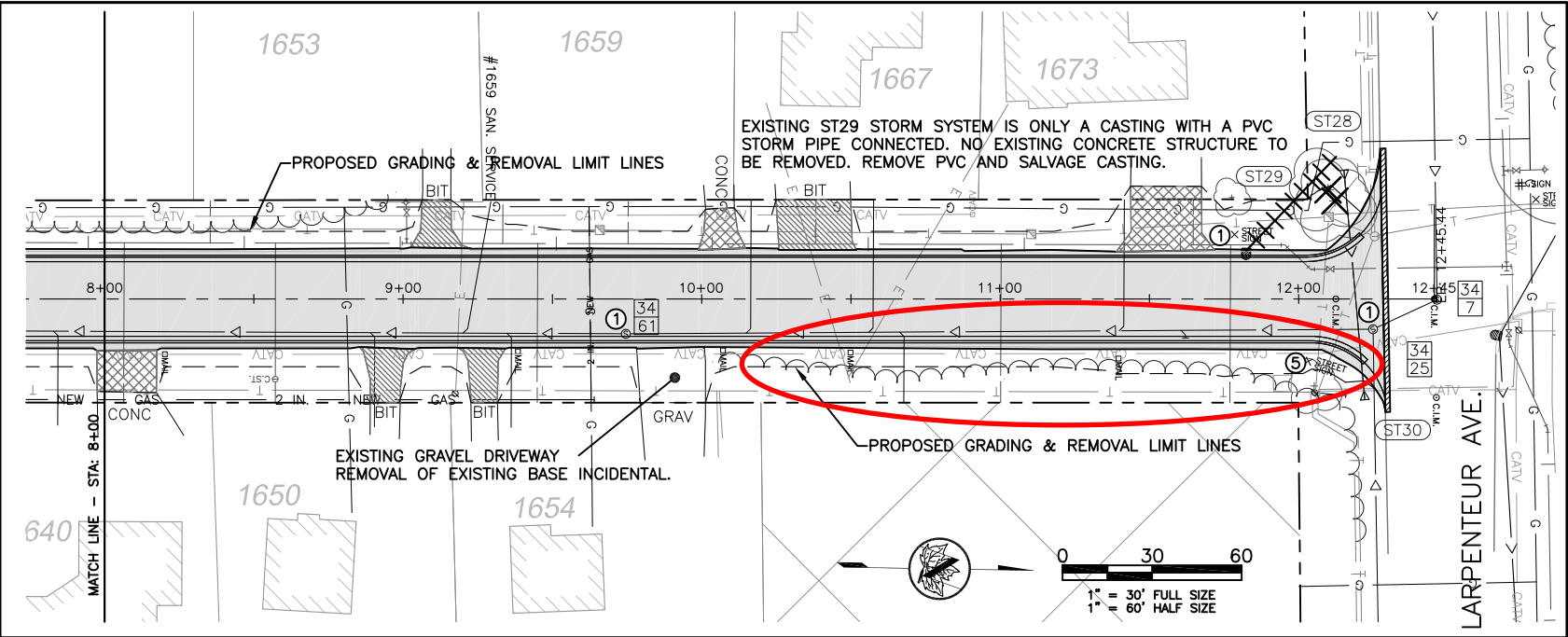


- REMOVE CONCRETE CURB & GUTTER
- REMOVE BITUMINOUS STREET SURFACE
- REMOVE BIT DRIVEWAY SURFACE
- REMOVE CONCRETE DRIVEWAY SURFACE
- SALVAGE PAVER DRIVEWAY & LANDSCAPE WALK SURFACE
- REMOVE BIT TRAIL SURFACE
- REMOVE CONCRETE WALK

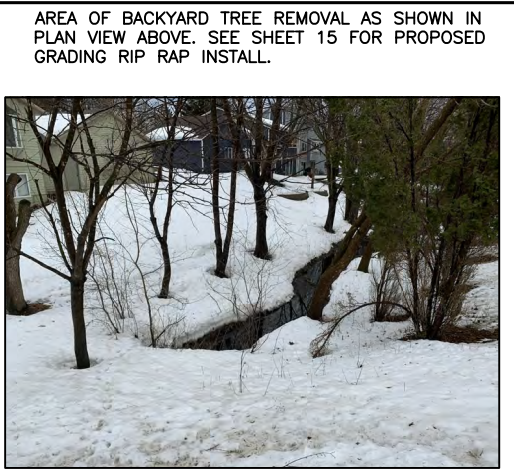
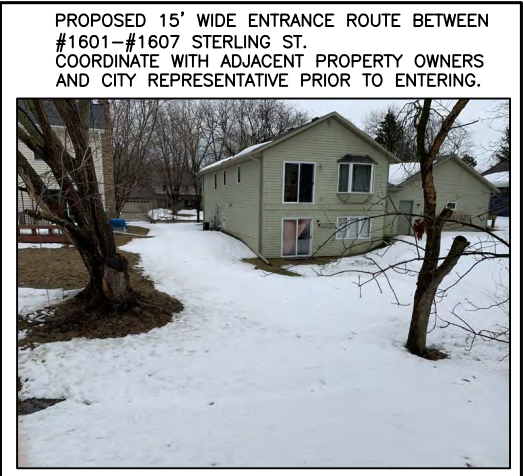
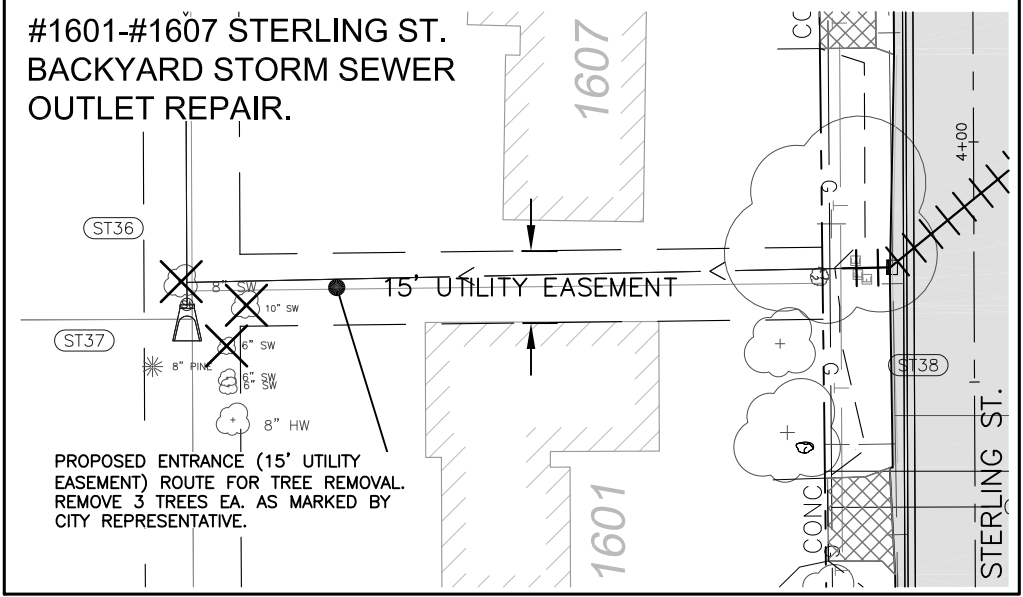
TOTAL STERLING ST. BIT STREET REMOVAL=4,583 S.Y.

- REMOVE STORM SEWER
- CLEAR AND GRUB TREE (EACH)
- SALVAGE CASTING
- REMOVE STRUCTURE AND SALVAGE CASTING
- REMOVE BIT TRAIL
- REMOVE SIDEWALK
- SALVAGE AND REINSTALL STREET SIGN

**NOTES**  
ALL TREES SCHEDULED FOR CLEAR AND GRUB WILL BE MARKED BY ENGINEER PRIOR TO REMOVAL.  
SEE SCHEDULE OF ESTIMATED QUANTITIES FOR LINE ITEM TOTALS.  
REMOVALS OF MISCELLANEOUS LANDSCAPE ITEMS (LANDSCAPE ROCK, SMALL TIMBERS, LANDSCAPING EDGING, ETC.) ARE INCIDENTAL TO COMMON EXCAVATION.  
  
SEE SANITARY SEWER SCHEDULE, WATER & SEWER PLAN SHEETS FOR SPECIFIC CASTING INFORMATION.  
SEE EXISTING STORM SEWER SCHEDULE FOR REMOVAL TOTALS.  
CITY REPRESENTATIVE TO MARK LIMITS AND REMOVAL LINES.  
CONTRACTOR TO WORK WITH & CONTACT PRIVATE UTILITIES FOR ANY RELOCATION OF STRUCTURES OR UNDERGROUND UTILITY CONFLICTS.  
  
CONTRACTOR TO NOTIFY CITY INSPECTOR WHEN TEMPORARY STOP & STREET BLADE SIGNS ARE ON SITE.  
CITY FORCES WILL REMOVE BLADE SIGNS & REINSTALL UPON COMPLETION OF RESTORATION.



# STERLING STREET



City of Maplewood  
DEPARTMENT OF PUBLIC WORKS  
ENGINEERING DIVISION  
1902 East County Road B  
Maplewood, Minnesota 55109  
(651) 249-2400 FAX (651) 249-2409

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 MINNESOTA.  
*Jonathan E. Jaroach*  
JONATHAN E. JAROACH  
DATE 4/7/2023 LICENSE NO. 49105

DESIGNED TMS  
DRAWN RKL  
CHECKED JEJ

STERLING STREET  
REMOVALS  
0+00 TO LARPEN TEUR

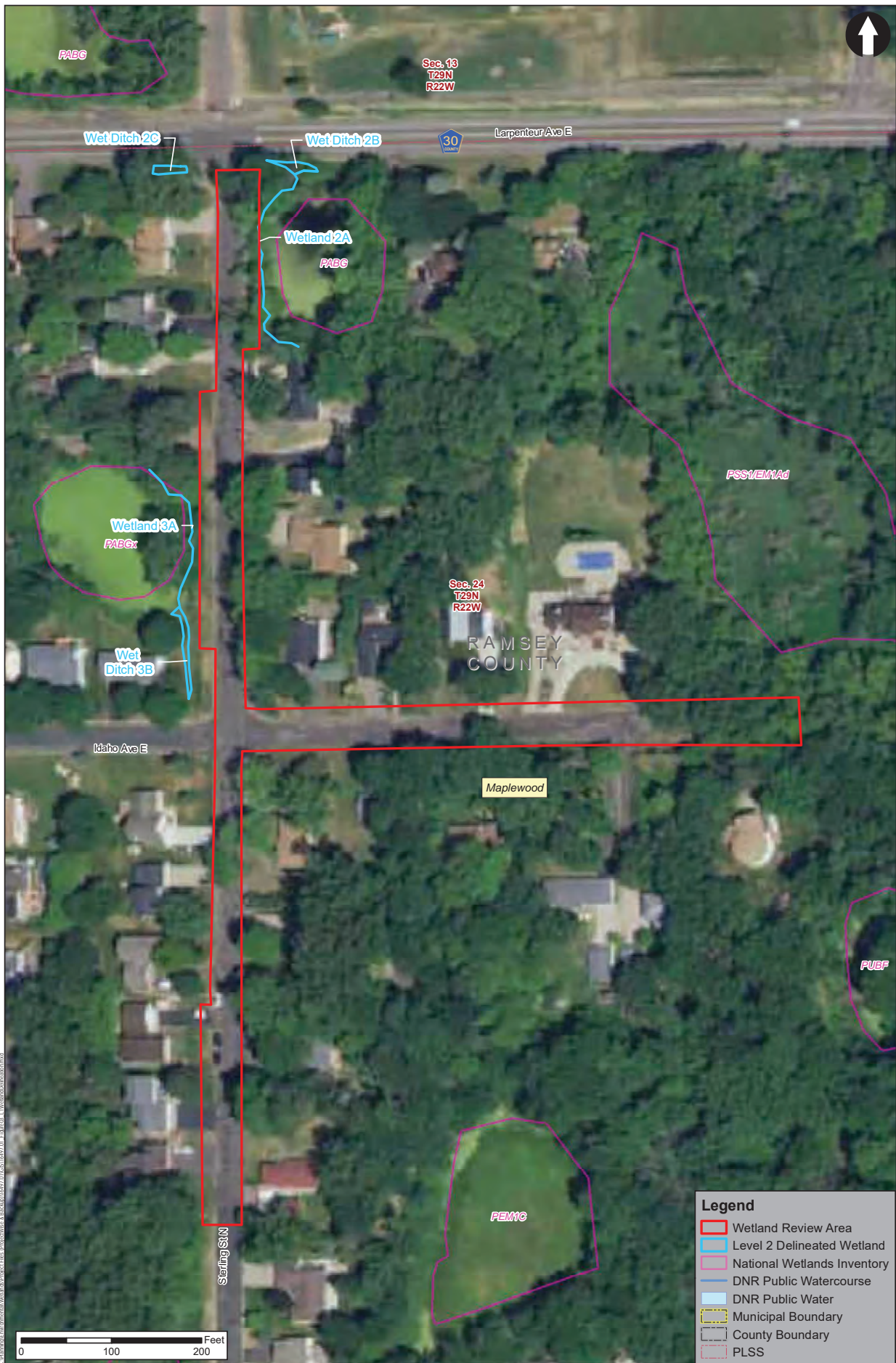
REVISION  
DESCRIPTION  
DATE

RECORD DRAWING  
BY X  
DATE X

CARD NUMBER

SHEET NO.  
20





## Wetland Delineation

Sterling Street Wetland Delineation  
City of Maplewood

Figure 3

## Minnesota Wetland Conservation Act Notice of Application

<b>Local Government Unit:</b> Ramsey-Washington Metro Watershed District	<b>County:</b> Ramsey
<b>Applicant Name:</b> Tyler Strong (City of Maplewood) <b>Applicant Representative:</b> Claire Freesmeier (SRF Consulting Group, Inc.)	
<b>Project Name:</b> Myrtle-Sterling SIP <b>LGU Project No. (if any):</b> 23-06 WCA	
<b>Date Complete Application Received by LGU:</b> 5/11/2023	
<b>Date this Notice was Sent by LGU:</b> 5/15/2023	
<b>Date that Comments on this Application Must Be Received By LGU<sup>1</sup>:</b> 6/6/2023	

<sup>1</sup> minimum 15 business day comment period for Boundary & Type, Sequencing, Replacement Plan and Bank Plan Applications

### WCA Decision Type - check all that apply

<input checked="" type="checkbox"/> <b>Wetland Boundary/Type</b> <input type="checkbox"/> <b>Sequencing</b> <input type="checkbox"/> <b>Replacement Plan</b> <input type="checkbox"/> <b>Bank Plan (not credit purchase)</b>	
<input type="checkbox"/> <b>No-Loss (8420.0415)</b> <input checked="" type="checkbox"/> <b>Exemption (8420.0420)</b>	
<b>Part:</b> <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> G <input type="checkbox"/> H	<b>Subpart:</b> <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input checked="" type="checkbox"/> 8 <input type="checkbox"/> 9

### Replacement Plan Impacts (replacement plan decisions only)

<b>Total WCA Impact Area Proposed:</b>
--

### Application Materials

<input checked="" type="checkbox"/> Attached <input type="checkbox"/> Other <sup>1</sup> (specify):
---

<sup>1</sup> Link to ftp or other accessible file sharing sites is acceptable.

### Comments on this application should be sent to:

<b>LGU Contact Person:</b> Nicole Maras
<b>E-Mail Address:</b> nicole.maras@rwmwd.org
<b>Address and Phone Number:</b> 2665 Noel Drive, Little Canada MN 55117 651-792-7976
<b>Decision-Maker for this Application:</b>
<input checked="" type="checkbox"/> Staff <input type="checkbox"/> Governing Board/Council <input type="checkbox"/> Other (specify):


### Notice Distribution (include name)

Required on all notices:

<input checked="" type="checkbox"/> SWCD TEP Member: <b>Alexis Lipstein (Ramsey County)</b> <input checked="" type="checkbox"/> BWSR TEP Member: <b>Ben Meyer</b>
<input type="checkbox"/> LGU TEP Member (if different than LGU contact):
<input checked="" type="checkbox"/> DNR Representative: <b>Jim Levitt</b>
<input type="checkbox"/> Watershed District or Watershed Mgmt. Org.:
<input checked="" type="checkbox"/> Applicant (notice only): <b>Jon Jarosch (City of Maplewood)</b> <input checked="" type="checkbox"/> Agent/Consultant (notice only): <b>Pat Corkle/Nicole Zappetillo/John Fesenmaier (SRF)</b>

### Optional or As Applicable:

<input checked="" type="checkbox"/> Corps of Engineers:
<input type="checkbox"/> BWSR Wetland Mitigation Coordinator (required for bank plan applications only):
<input type="checkbox"/> Members of the Public (notice only): <input checked="" type="checkbox"/> Other <b>Mary Fitzgerald (RWMWD)</b>

<b>Signature:</b> 	<b>Date:</b> 5/15/2023
--	------------------------

**This notice and accompanying application materials may be sent electronically or by mail. The LGU may opt to send a summary of the application to members of the public upon request per 8420.0255, Subp. 3.**

# Permit Application Coversheet

Date June 07, 2023

Project Name The Heights Phase I

Project Number 23-17

Applicant Name George Hoene, St. Paul Port Authority

Type of Development Grading

## Property Description

This project is located at the former Hillcrest Golf Club off Larpenteur Avenue in the City of St. Paul. The applicant is proposing to redevelop the site into an eventual mixed use development including residential, commercial, light industrial, and green space. The total site area is 112 acres. Soil investigation on the site has found widespread contamination from past fungicide use by the former golf course, resulting in a 'brownfield' designation. The scope of this Phase I will include demolition of existing buildings/parking/trails, mass grading, and soil remediation. No impervious area is proposed as part of this phase, however temporary sediment ponds will be constructed throughout the site for the purposes of rate control until the permanent stormwater management plan is finalized and reviewed during a subsequent phase. A wetland delineation, approved in July 2020, identified ten wetlands onsite. The City of St. Paul is the designated Local Government Unit (LGU) responsible for Wetland Conservation Act (WCA) administration and decision-making for this project. Almost all of the existing wetlands are proposed to be impacted for contaminated sediment removal. A wetland replacement plan was approved by the city in May 2023. The proposed plan involves 0.96 acre of temporary impact and 2.87 acres of permanent impact. Replacement of impacted wetlands is proposed at a 1:1 ratio by area onsite to meet RWMWD's 'no net loss' of wetlands policy. The remaining 1:1 replacement will be met through the purchase of offsite wetland bank credits for an overall replacement rate of 2:1 to meet WCA requirements. The wetland impacts and mitigation are proposed to occur during Phase I, so a wetland (Rule E) variance request is included for board consideration. The proposed wetland buffer widths listed are being requested primarily for existing roadways and future roadway construction for the development.

## Watershed District Policies or Standards Involved:

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

## Water Quantity Considerations

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

## 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 related to impervious area.



#### Staff Recommendation

Staff recommends approval of this permit with the special provisions and variance request (Rule E).

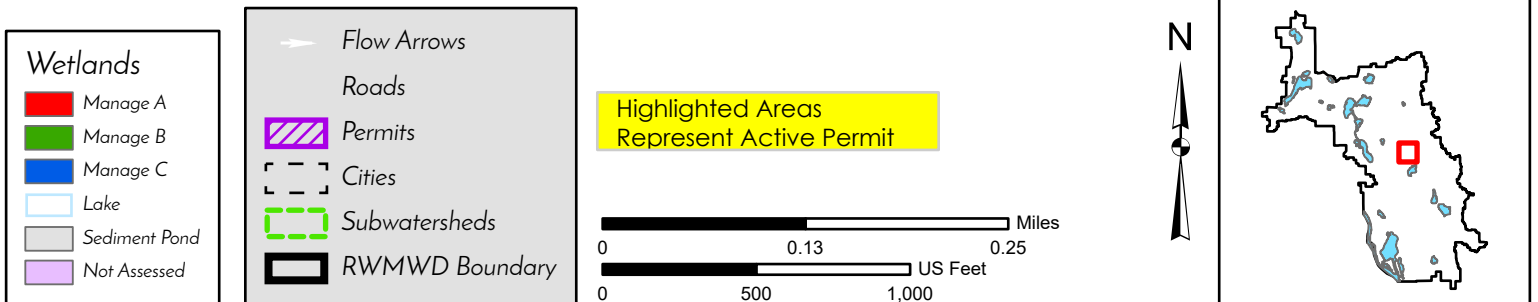
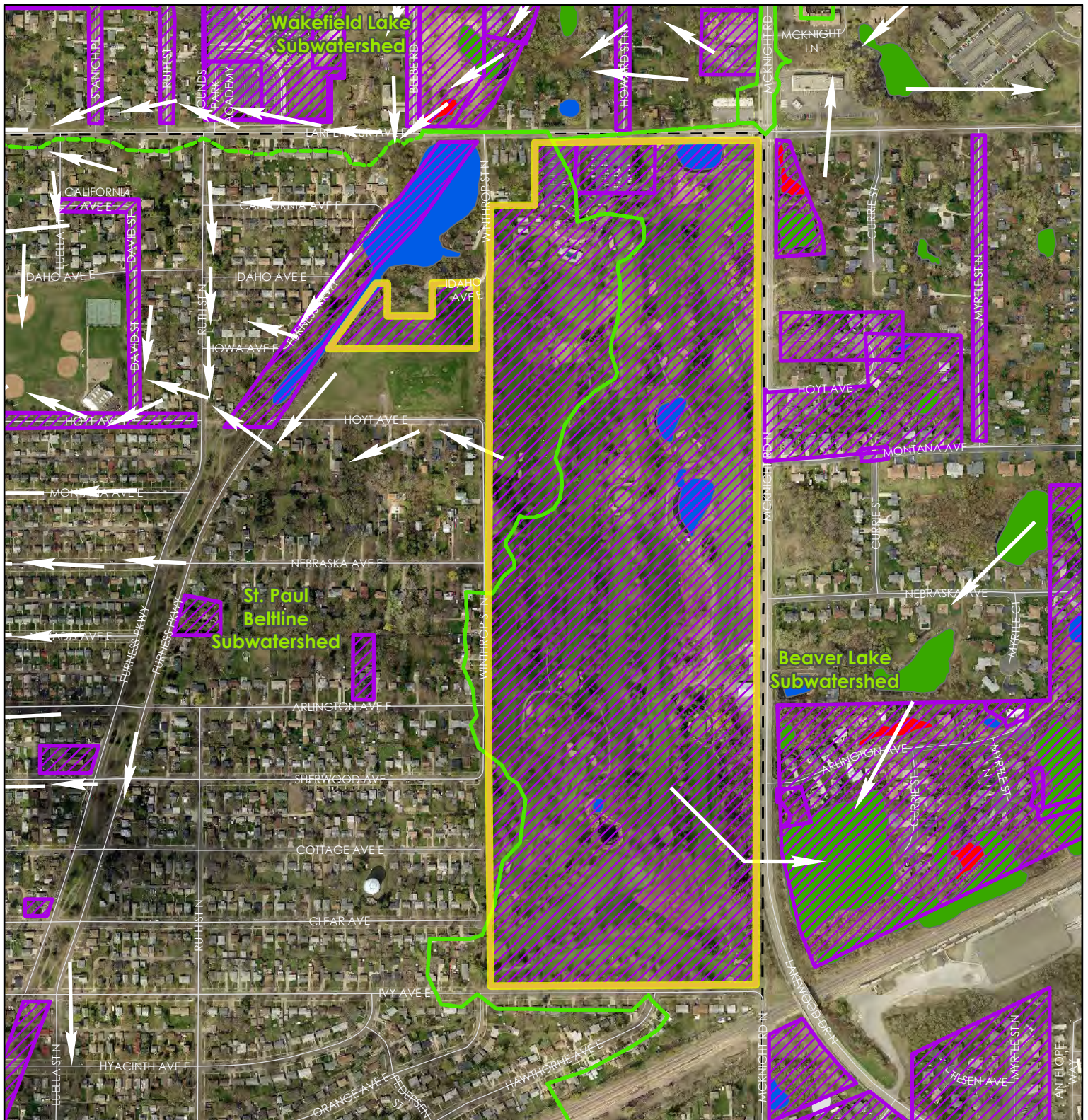
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#### Attachments:

- ☒ Project Location Map
- ☒ Project Grading Plan



# #23-17 The Heights Phase I





### Special Provisions

1. The applicant shall submit contact information for the trained erosion control coordinator responsible for implementing the Stormwater Pollution Prevention Plan (SWPPP).
2. The applicant shall add notes to the plans:
  - A. Notify Nicole Maras, Ramsey-Washington Metro Watershed District, at 651-792-7976 prior to beginning construction activity to schedule an initial erosion control inspection.
  - B. The specified erosion and sediment control practices are the minimum. Additional practices may be required during the course of construction.
3. The applicant shall clarify what the different colors represent on Sheet 250.
4. The applicant shall show the locations for proposed stabilized construction entrances on Sheets 251-268.
5. The applicant shall show the locations for proposed temporary sediment ponds on Sheet 251.



K:\13987-000\CD\Plan\1313987-000-CP-GRAD-PLAN.dwg 3/31/2023 6:26:19 AM

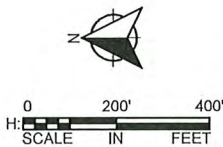
GRADING NOTES:

- ALL PROPOSED BUILDINGS ON THIS SITE MUST HAVE A MINIMUM TOP OF FOUNDATION AND LOWEST UNPROTECTED OPENING ELEVATION A MINIMUM OF 1.0' ABOVE ANY APPLICABLE EMERGENCY OVERFLOW ELEVATION (EO) AND/OR 2.0' ABOVE ANY ADJACENT 100 YR. HW IMPOUNDMENT ELEVATION, WHICHEVER IS GREATER.
- ALL BUILDINGS DEPICTED HEREIN ARE PROTOTYPIC AND ARE NOT INTENDED FOR ACTUAL CONSTRUCTION. THE INDIVIDUAL LOT DEVELOPER/BUILDER SHALL BE RESPONSIBLE FOR ANY AND ALL ACCOMMODATIONS, MODIFICATIONS, ETC. TO ALL PROPOSED BUILDINGS TO ACCOMMODATE THE DESIGN ELEVATIONS SHOWN HEREON AS WELL AS ALL REQUIRED MODIFICATIONS TO THE DESIGN ELEVATIONS SHOWN TO ENSURE THE STRUCTURES COMPLIANCE WITH EGRESS AND ALL APPLICABLE CODE. ALTERATION AND OR MODIFICATION OF THE PROPOSED GRADES SHOWN HEREON TO FACILITATE THE CONSTRUCTION OF BUILDING SHALL BE THE DEVELOPER/BUILDERS RESPONSIBILITY. ANY SUCH MODIFICATION OF DESIGN GRADES SHOWN HEREIN, ESPECIALLY LOWERING OF THE DESIGNATED LOWEST UNPROTECTED OPENING ELEVATION (LO) MAY REQUIRE THE BUILDER TO PROVIDE ADDITION INFORMATION, UP TO AND INCLUDING AN INDIVIDUAL LOT GRADING PLAN AND PERMIT UPON THE CITY OF ST PAUL REQUEST.
- THE GROUND IMMEDIATELY ADJACENT A RESIDENTIAL BUILDING FOUNDATION SHALL BE SLOPED AWAY FROM THE BUILDING FOUNDATION AT A SLOPE NOT LESS THAN 5 PERCENT FOR A MINIMUM DISTANCE OF 10' HORIZONTAL, MEASURED PERPENDICULAR TO THE FACE OF THE WALL. IF PHYSICAL OBSTRUCTIONS OR LOT LINES PROHIBIT 10' HORIZONTAL, A 5 PERCENT SLOPE SHALL BE PROVIDED TO AN APPROVED ALTERNATE METHOD OF DIVERTING WATER AWAY FROM THE BUILDING FOUNDATION. SWALES USED FOR THIS PURPOSE SHALL BE SLOPED NOT LESS THAN 2 PERCENT WHERE LOCATED WITHIN 10 FEET OF THE OF THE BUILDING FOUNDATION. IMPERVIOUS SURFACES WITHIN 10' OF THE BUILDING FOUNDATION SHALL BE SLOPED NOT LESS THAN 2 PERCENT AWAY FROM THE BUILDING.
- THE PROPOSED GRADES SHOWN ON THE GRADING PLAN ARE FINISHED GRADES.
- GRADING ACTIVITY WHICH BLOCKS TRAFFIC OF ANY STREET, ALLEY, OR DRIVE IS SUBJECT TO APPROVAL BY THE CITY.
- CONTRACTOR SHALL STOP WORK IMMEDIATELY AND NOTIFY THE ENGINEER AND OWNER IF CONTAMINANTS ARE FOUND IN THE EXISTING SOILS.
- SIDEWALK CROSS-SLOPES SHALL NOT EXCEED 2.0% AND LONGITUDINAL SLOPES SHALL NOT EXCEED 5.0% UNLESS OTHERWISE NOTED.
- IN AREAS WHERE NEW FILL IS TO BE PLACED ON SLOPING GROUND, BENCHING THE SURFACE SHALL BE COMPLETED PRIOR TO PLACING THE FILL. BENCHING SHALL BE COMPLETED WHERE SLOPES ARE STEEPER THAN 4:1 (HORIZONTAL:VERTICAL).
- PROVIDE POSITIVE DRAINAGE AT ALL TIMES WITHIN THE CONSTRUCTION AREA. DO NOT ALLOW WATER TO POND IN EXCAVATION AREAS, AND MAINTAIN ALL EXISTING DRAINAGE PATTERNS.
- PERVIOUS FINISH GRADE EXTERIOR AND ADJACENT A BUILDING FOUNDATION SHALL BE BELOW THE TOP OF THE FOUNDATION IN ACCORDANCE WITH RESIDENTIAL BUILDING CODE R404.1.6. A MINIMUM OF 6" IS SHOWN HEREIN.

- ALL EXTERIOR BUILDING WALLS AND FOUNDATIONS ADJACENT PERVIOUS NON PAVED AREAS SHALL BE WATERPROOFED TO AN ELEVATION OF 0.5' ABOVE SAID EXTERIOR PERVIOUS GRADE IN ACCORDANCE WITH ARCHITECTURAL PLANS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH ALL OSHA REGULATIONS IN THE EXECUTION OF WORK UNDER THIS CONTRACT.
- THE CONTRACTOR SHALL APPLY FOR A GRADING PERMIT BEFORE STARTING WORK. THE INSPECTOR AND THE CITY OF ST PAUL PUBLIC WORKS DEPARTMENT SHALL BE NOTIFIED BY THE CONTRACTOR 48 HOURS BEFORE START OF CONSTRUCTION. NO WORK MAY BEGIN UNTIL THE PERMIT HAS BEEN RECEIVED AND THE CONTRACTOR MUST COMPLY WITH THE TERMS OF THE PERMIT.
- ALL NON-PAVED AREAS SHALL RECEIVE A FOUR-INCH (4") LAYER OF TOPSOIL. SEE EROSION AND SEDIMENT CONTROL PLANS & SPECIFICATIONS FOR TEMPORARY AND PERMANENT STABILIZATION REQUIREMENTS.
- ALL CONCRETE WASHOUT PRACTICES MUST MEET OR EXCEED THE MPCA STANDARDS.
- ALL DISCHARGE OF TURBID OR SEDIMENT-LADEN WATERS RELATED TO DEWATERING OR BASIN DRAINING (E.G. PUMPED DISCHARGES, TRENCH/DITCH CUTS FOR DRAINAGE) SHALL DISCHARGE INTO A TEMPORARY OR PERMANENT SEDIMENT BASIN UNLESS INFEASIBLE. IF A SEDIMENT BASIN IS NOT AVAILABLE, THE CONTRACTOR SHALL TREAT ALL DISCHARGE WITH APPROPRIATE BMP'S SO THAT ANY DISCHARGE DOES NOT ADVERSELY AFFECT THE SURFACE WATER OR DOWNSTREAM PROPERTIES.
- PER THE NPDES CONSTRUCTION STORM WATER PERMIT, THE DATE AND AMOUNT OF ALL RAINFALL EVENTS GREATER THAN ONE HALF INCH IN 24 HOURS MUST BE DOCUMENTED. RAINFALL AMOUNTS MUST BE OBTAINED FROM A PROPERLY MAINTAINED RAIN GAUGE INSTALLED ONSITE, A WEATHER STATION WITHIN ONE MILE OF THE SITE, OR A WEATHER REPORTING SYSTEM THAT PROVIDES SITE SPECIFIC RAINFALL DATA FROM RADAR SUMMARIES.

NOTICE TO CONTRACTORS:  
THE SUBJECT PROPERTY CONTAINS CONTAMINATED SOILS, SEDIMENTS AND OTHER MEDIA AS DEFINED BY BRAUN INTERTEC CORPORATION, A RESPONSE ACTION PLAN HAS BEEN PREPARED BY BRAUN INTERTEC CORPORATION DATED MARCH 1, 2022 (PROJECT NO. B1903316.00). ALL CONSTRUCTION WORK AND REMOVALS SHALL BE IN ACCORDANCE WITH "RESPONSE ACTION PLAN FOR: HILLCREST REDEVELOPMENT SITE", PREPARED BY BRAUN INTERTEC CORPORATION, DATED MARCH 1, 2022. REFER TO THE "RAP" FOR ADDITIONAL DETAIL AND SPECIFICATION.

DISTRICT STORMWATER INFILTRATION BASINS  
ARE NOT INCLUDED WITH THIS BID PACKAGE  
(INCLUDES OUTLOTS C, D, F, G, H, I, K, AND M)



SCALE: AS SHOWN  
DESIGN BY: PJM  
PLAN BY: PJM  
CHECK BY: JMT

REVISIONS		
NO.	DATE	DESCRIPTION
1	03-31-2023	APPENDUM NO. 1

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.

PAUL HORNEY, P.E.  
DATE: 03/22/2023 LIC. NO: 23359

OVERALL  
GRADING PLAN

THE HEIGHTS SITE REDEVELOPMENT  
(AKA HILLCREST GOLF COURSE)

BUILDING DEMOLITION, CONTAMINATED SOIL  
REMEDIATION, SITEWORK & GRADING

SAINT PAUL, MINNESOTA  
(BID PACKAGE 1)

Saint Paul  
Port Authority  
400 Wabasha Street North  
Suite 240  
St Paul, Minnesota 55102  
Phone 612-224-5686

WSB PROJECT NO.  
013987-000



## Memorandum

To: Nicole Soderholm, Ramsey Washington Metro Watershed District

From: Alison Harwood, WSB

Date: April 18, 2023

Re: Saint Paul Port Authority – The Heights Development  
Wetland Buffer Variance Request  
WSB Project No. 13987-000

---

The Saint Paul Port Authority (SPPA) respectfully requests a variance from the buffer rule for their project, The Heights. The request is for both temporary disturbance within the buffer and deviation from the buffer width requirements for the mitigation wetlands (Mitigation Wetland D and H). These activities will occur during Phases I – III of the project, which includes demolition, soil remediation, and mass grading.

### Temporary buffer impacts

The Heights site is highly contaminated and will require soil remediation prior to any future public use. Soil remediation across the site will require disturbance within wetland buffer areas. Avoidance of the buffer areas is not feasible because all site contamination needs to be removed to allow public use of the site. Following remediation and site grading, buffer areas will be re-vegetated with native species as outlined in the plans and erosion control measures will be in place. SPPA respectfully requests a variance to allow the temporary disturbance of the buffer areas.

### Buffer Width

Watershed District staff have indicated that the Watershed Plan implies that buffers around wetland mitigation areas should meet the Manage A widths (75-foot average, 37.5-foot minimum). Buffers are being provided around all wetlands remaining and created on the site following construction as outlined in the table below:

Wetland ID	Management Classification	Watershed District Buffer Requirements (in feet)		Proposed Buffer Design (in feet)	
		Average Width	Minimum Width	Average Width	Minimum Width
Wetland C	B	50	25	56	25
Wetland D	C	25	12.5	39	26
Wetland H	Manage 2 (C)	25	12.5	53	25
Mitigation Wetland D	A	75	37.5	55	28
Mitigation Wetland H	A	75	37.5	53	33



Buffers proposed for each wetland are outlined below.

*Wetland C:* Wetland buffers cannot extend into the public right-of-way of McKnight Road. Wetland C is positioned along the eastern border of the project area, along McKnight Road. Buffers outside of the right-of-way will meet the average and minimum wetland buffer widths.

*Wetland D:* Buffers will meet the average and minimum wetland buffer widths.

*Wetland H:* Buffers will meet the average and minimum wetland buffer widths.

*Mitigation Wetland D:* The average buffer width is 55 feet, with buffers along the western side of the wetland averaging approximately 80 feet. Wetland D, and its buffer, is also located west of this wetland, adding additional natural area to this wetland mitigation site and further meeting the intent of the buffer rule by providing additional water quality treatment for runoff and habitat for area wildlife. On the east side of the wetland, the right-of-way for McKnight Road limits the area available for upland buffer. The proposed upland buffer maximizes the available space to the east. The upland buffers proposed north and south of the mitigation wetland also maximize the space available with the northern buffer abutting the Montana Avenue right-of-way and the southern buffer abutting a proposed bituminous pathway.

Providing transportation and pedestrian access throughout the site is integral to the success of the project and to conform with the master plan which had extensive public input. On the north side of Mitigation Wetland D, the proposed Montana Avenue provides central access to the site off McKnight Road. The proposed roadway is an extension of the existing Montana Avenue east of McKnight, so the intersections are aligned. Shifting the roadway further north would misalign the intersections, creating issues with traffic flow and safety. Therefore, shifting the road to add additional buffer to the north side of Mitigation Wetland D is not feasible. On the south side, the location of the proposed bituminous pathway limits the extent of the buffer. The bituminous path has been located to provide access through the central portion of the site. The development pad south of the path has been sized to the needs of potential users. Reducing the size of this lot is not feasible because it would limit the users and ultimately the potential for job creation. This would make it difficult to achieve the 1,000 jobs goal of the master plan since lots have already been reduced from master plan size by City and County requirements for right-of-way and by the site topography.

*Mitigation Wetland H:* The average buffer width is 53 feet. On the east side of the wetland, the right-of-way for McKnight Road limits the area available for upland buffer. The proposed upland buffer maximizes the available space to the east. The upland buffers proposed north and south of the mitigation wetland also maximize the space available with the northern buffer abutting the proposed Arlington Avenue right-of-way and the southern buffer abutting a proposed bituminous pathway along the existing Ivy Avenue. The proposed Arlington Avenue is positioned to align with the existing Arlington Avenue located east of McKnight Road. Shifting the roadway further north would misalign the intersections, creating issues with traffic flow and safety. Therefore, shifting the road to add additional buffer to the north side of Mitigation Wetland H is not feasible. On the west side of Mitigation Wetland H the average buffer width is 50 feet. To meet Wetland Conservation Act design requirements, the buffers slopes must not exceed 8:1 slopes. Significant topography in this area and the needs for lot size limit the ability to grade further upslope. As currently designed, the buffer consists of an 8:1 slope to 50 feet. A 10-foot-tall retaining wall is proposed outside of the 50-foot buffer to maintain the size of the development pad to that necessary for the proposed users. Adding an additional 25 feet of buffer space would result in a retaining wall that would be approximately 15 feet tall and would further reduce the size of the adjacent development pad. The resulting development pad would not be large enough to fit the needs of proposed user. This would not allow SPPA to meet the 1,000 jobs goal of the master

plan. Lots have already been reduced from master plan size by City and County requirements for right-of-way and by the site topography. SPPA has endeavored to provide as much buffer space as feasible given the existing site conditions and development requirements and respectfully requests a variance from the buffer rule for this area.

Development of the final design of The Heights continues and subsequent variance requests may be submitted at a later phase for green area amenities such as nature play areas, boardwalks, and natural pathways to allow public access.

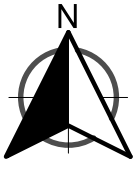
If you have any questions about this variance request, please contact me at [aharwood@wsbeng.com](mailto:aharwood@wsbeng.com) or 612.360.1320.



# THE HEIGHTS

2200 Larpenteur Avenue East, St. Paul, Minnesota

WSB Project Number .....013987-000  
Issue Date .....1/10/2023; INITIAL SUBMITTAL - NOT FOR CONSTRUCTION



1 PROJECT LOCATION MAP  
1 SCALE: NOT TO SCALE

THE SUBSURFACE UTILITY INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF PRIVATE UTILITIES HAS BEEN DESIGNATED UTILITY QUALITY LEVEL D. THESE QUALITY LEVELS WERE DETERMINED ACCORDING TO THE GUIDELINES OF C/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE DATA". THE CONTRACTOR IS TO DETERMINE THE TYPE AND LOCATION OF PRIVATE UTILITIES AS MAY BE DEEMED NECESSARY TO AVOID DAMAGE THERETO.

Sheet List Table	
SHEET NUMBER	SHEET TITLE
1	COVER PAGE
2	OVERALL WETLAND PLAN
3	WETLAND C MITIGATION PLAN
4	WETLAND D MITIGATION PLAN
5	WETLAND D SECTIONS
6	WETLAND D SECTIONS
7	WETLAND D SECTIONS
8	WETLAND H MITIGATION PLAN
9	WETLAND H MITIGATION PLAN
10	WETLAND H SECTIONS
11	WETLAND H SECTIONS
12	WETLAND H SECTIONS
13	WETLAND H SECTIONS

### GENERAL NOTES:

- EXISTING SITE INFORMATION WAS TAKEN FROM A BOUNDARY AND TOPOGRAPHIC SURVEY COMPLETED BY LOUCKS CIVIL ENGINEERING & LAND SURVEYING DATED 08-17-2022. ACTUAL FIELD CONDITIONS MAY VARY.
- VERIFY ALL FIELD CONDITIONS INCLUDING LOCATION OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. NOTIFY THE OWNER AND ARCHITECT OF ANY DISCREPANCIES AFFECTING THE SCOPE OF THIS CONTRACT. SEE SURVEY FOR BENCHMARK INFORMATION. PROTECT ALL PROPERTY CORNERS. RELOCATE BENCHMARKS AS NECESSARY WITH NEW BENCHMARK LOCATIONS WITHIN A TOLERANCE OF 0.010 VERTICAL FEET.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE PLANS AND REQUIREMENTS OF THE DETAILED SPECIFICATIONS.
- OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL PAY ALL PERMIT AND OTHER ASSOCIATED FEES REQUIRED BY LOCAL, STATE AND FEDERAL AGENCIES.
- CONTRACTOR SHALL STOP WORK IMMEDIATELY AND NOTIFY THE ENGINEER AND OWNER IF ADDITIONAL CONTAMINANTS ARE FOUND IN THE EXISTING SOILS.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH ALL OSHA REGULATIONS IN THE EXECUTION OF WORK UNDER THIS CONTRACT.
- CONTRACTOR TO PROVIDE AND MAINTAIN ALL NECESSARY TRAFFIC CONTROL DEVICES TO CONFORM TO THE LATEST VERSION OF THE MINNESOTA "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD). ALL COSTS ASSOCIATED WITH LABOR, MATERIALS, AND EQUIPMENT TO FURNISH AND MAINTAIN TRAFFIC CONTROL WILL BE CONSIDERED INCIDENTAL TO THE PROJECT.
- ALL DISCHARGE OF TURBID OR SEDIMENT-LADEN WATERS RELATED TO DEWATERING OR BASIN DRAINING (E.G. PUMPED DISCHARGES, TRENCH/DITCH CUTS FOR DRAINAGE) SHALL DISCHARGE INTO A TEMPORARY OR PERMANENT SEDIMENT BASIN UNLESS INFEASIBLE. IF A SEDIMENT BASIN IS NOT AVAILABLE, THE CONTRACTOR SHALL TREAT ALL DISCHARGE WITH APPROPRIATE BMP's SO THAT ANY DISCHARGE DOES NOT ADVERSELY AFFECT THE SURFACE WATER OR DOWNSTREAM PROPERTIES.
- THE CONTRACTOR SHALL APPLY FOR A PLUMBING PERMIT WITH SAINT PAUL REGIONAL WATER TO CUT THE WATER LINES OFF AT THE PROPERTY LINE. THE CONTRACTOR SHALL CONTACT ENGINEERING AT 651-266-6270 TO GET CUT-OFF INSPECTED. THE CONTRACTOR SHALL CONTACT THE METER DEPARTMENT AT 651-266-6860 TO PULL ANY BUILDING METERS.
- INSPECTION CONTACT: THE DEVELOPER SHALL CONTACT THE RIGHT OF WAY INSPECTOR TESHOME HALEMARIAM, 651-238-0681 (TWO WEEK PRIOR TO BEGINNING WORK) TO DISCUSS TRAFFIC CONTROL, PEDESTRIAN SAFETY AND COORDINATION OF ALL WORK IN THE PUBLIC RIGHT OF WAY. NOTE: IF NOTICE IS NOT PROVIDED TO THE CITY, ANY RESULTING DELAYS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- AS PART OF THE ROW PERMITTING PROCESS, TWO WEEKS BEFORE ANY WORK BEGINS THAT IMPACTS THE ROW IN ANY WAY THE DEVELOPER SHALL PROVIDE TO THE ROW INSPECTOR THE NAME AND CONTACT INFORMATION OF THE CONSTRUCTION PROJECT MANAGER OR CONSTRUCTION PROJECT SUPERINTENDENT. IF THIS INFORMATION IS NOT PROVIDED THERE MAY BE A DELAY IN OBTAINING PERMITS FOR THE WORK IN THE ROW. SAID DELAYS WILL BE THE SOLE RESPONSIBILITY OF THE DEVELOPER.
- ENCROACHMENTS: PER CHAPTER 134 OF THE LEGISLATIVE CODE, NO PERSON SHALL CONSTRUCT AND MAINTAIN ANY PROJECTION OR ENCROACHMENT WITHIN THE PUBLIC RIGHT-OF-WAY.
- ORDERING OBSTRUCTION AND EXCAVATION PERMITS: CONTACT PUBLIC WORKS RIGHT OF WAY SERVICE DESK AT (651) 266-6151. IT IS STRONGLY RECOMMENDED THAT CONTRACTORS CALL FOR COST ESTIMATES PRIOR TO BIDDING TO OBTAIN ACCURATE COST ESTIMATES.
- OBSTRUCTION PERMITS: THE CONTRACTOR MUST OBTAIN AN OBSTRUCTION PERMIT IF CONSTRUCTION (INCLUDING SILT FENCES) WILL BLOCK CITY STREETS, SIDEWALKS OR ALLEYS, OR IF DRIVING OVER CURBS.
- EXCAVATION PERMITS: ALL DIGGING IN THE PUBLIC RIGHT OF WAY REQUIRES AN EXCAVATION PERMIT.
- FAILURE TO SECURE PERMITS: FAILURE TO SECURE OBSTRUCTION PERMITS OR EXCAVATION PERMITS WILL RESULT IN A DOUBLE-PERMIT FEE AND OTHER FEES REQUIRED UNDER CITY OF ST. PAUL LEGISLATIVE CODES.
- RIGHT OF WAY RESTORATION: RESTORATION OF ASPHALT AND CONCRETE PAVEMENTS ARE PERFORMED BY THE PUBLIC WORKS STREET MAINTENANCE DIVISION. THE CONTRACTOR IS RESPONSIBLE FOR PAYMENT TO THE CITY FOR THE COST OF THESE RESTORATIONS. THE CONTRACTOR SHALL CONTACT PUBLIC WORKS STREET MAINTENANCE TO SET UP A WORK ORDER PRIOR TO BEGINNING ANY REMOVALS IN THE STREET AT 651-266-9700. PROCEDURES AND UNIT COSTS ARE FOUND IN STREET MAINTENANCE'S "GENERAL REQUIREMENTS - ALL RESTORATIONS" AND ARE AVAILABLE AT THE PERMIT OFFICE.
- TYPE 3 MATERIALS LOCATIONS TAKEN FROM, AND ALL REMOVALS SHALL BE IN ACCORDANCE WITH "RESPONSE ACTION PLAN FOR: HILLCREST REDEVELOPMENT SITE", PREPARED BY BRAUN INTERTEC CORPORATION, DATED MARCH 1, 2022. REFER TO THE "RAP" FOR ADDITIONAL DETAIL AND SPECIFICATION..

SCALE: AS SHOWN  
DESIGN BY: PJM  
PLAN BY: PJM  
CHECK BY: AH

### REVISIONS

NO.	DATE	DESCRIPTION

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.

DATE: \_\_\_\_\_ LIC. NO: \_\_\_\_\_

### COVER PAGE

WETLAND MITIGATION EXHIBITS FOR:  
**THE HEIGHTS**  
SITE REDEVELOPMENT  
SAINT PAUL, MINNESOTA

Saint Paul  
Port Authority  
400 Wabasha Street North  
Suite 240  
St Paul, Minnesota 55102  
Phone 612-224-5686

WSB PROJECT NO.  
013987-000



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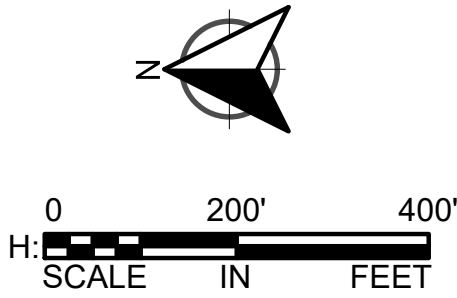


LEGEND

- EXISTING CONTOUR
- TEMPORARY WETLAND IMPACTS
- PERMANENT WETLAND IMPACTS
- DELINEATED WETLAND BOUNDARY
- LIMITS OF MITIGATION AREA
- LIMITS OF MINIMUM WETLAND BUFFER

WETLAND ID	WETLAND TYPE	WETLAND AREA (AC)	IMPACT AREA (AC)	IMPACT TYPE (CUT/FILL)	IMPACT DURATION
WETLAND A	TYPE 5	0.69	0.69	FILL	PERMANENT
WETLAND B	TYPE 3	0.43	0.43	FILL	PERMANENT
WETLAND C	TYPE 3	0.93	0	NONE	NA
WETLAND D	TYPE 5	0.79	0	NONE	NA
WETLAND E	TYPE 7	0.49	0.49	FILL	PERMANENT
WETLAND F	TYPE 3/6	0.13	0.13	FILL	PERMANENT
WETLAND G	TYPE 5	0.39	0.39	FILL	PERMANENT
WETLAND H	TYPE 4	1.44	0.48	FILL	PERMANENT
WETLAND I	TYPE 4		0.96	SOIL REMOVAL	TEMPORARY
WETLAND J	TYPE 5	0.26	0.26	FILL	PERMANENT
WETLAND J	TYPE 1	0.05	0	NONE	NA
DITCH 1		0.04	0.04	FILL	PERMANENT

NOTICE TO CONTRACTORS:  
THE SUBJECT PROPERTY CONTAINS CONTAMINATED SOILS, SEDIMENTS AND OTHER MEDIA AS DEFINED BY BRAUN INTERTEC CORPORATION. A RESPONSE ACTION PLAN HAS BEEN PREPARED BY BRAUN INTERTEC CORPORATION DATED MARCH 1, 2022 (PROJECT NO. B1903316.00). ALL CONSTRUCTION WORK AND REMOVALS SHALL BE IN ACCORDANCE WITH "RESPONSE ACTION PLAN FOR: HILLCREST REDEVELOPMENT SITE", PREPARED BY BRAUN INTERTEC CORPORATION, DATED MARCH 1, 2022. REFER TO THE "RAP" FOR ADDITIONAL DETAIL AND SPECIFICATION.



Wetland ID	St. Paul Requirements			Watershed Requirements			Combined Minimum Buffer Areas	Proposed Buffers	
	Wetland Area	Minimum Buffer width	Minimum Buffer Area	Manage Class	Minimum Buffer width	Minimum Buffer Area		Buffer Area	Average Width
	ac	ft	sq. ft.		ft	sq. ft.		sq. ft.	ft
Wetland C	0.933	25	18,893	B	50	35,360	35,360	48,440	56
Wetland D	0.794	25	19,597	C	25	19,597	19,597	34,192	39
Mitigated Wetland D	0.778	25	31,491		25	31,491	31,491	76,041	55
Wetland H	0.935	25	12,962	Manage 2	25	12,962	92,680	100,127	53
Mitigated Wetland H	2.165	50	79,718		50	79,718			

SCALE: AS SHOWN  
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PLAN BY: PJM  
CHECK BY: AH

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DATE: \_\_\_\_\_ LIC. NO. \_\_\_\_\_

OVERALL WETLAND PLAN

WETLAND MITIGATION EXHIBITS FOR:  
**THE HEIGHTS**  
SITE REDEVELOPMENT  
SAINT PAUL, MINNESOTA

Saint Paul  
Port Authority  
400 Wabasha Street North  
Suite 240  
St Paul, Minnesota 55102  
Phone 612-224-5686

WSB PROJECT NO.  
013987-000



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WETLAND C  
BUFFER STABILIZATION & REPLANTING:  
DISTURBED AREA WITHIN THE WETLAND BUFFER AREA  
AS SHOWN HEREON SHALL BE STABILIZED USING THE  
FOLLOWING SEED MIXTURES:

ALL DISTURBED BUFFER AREAS:

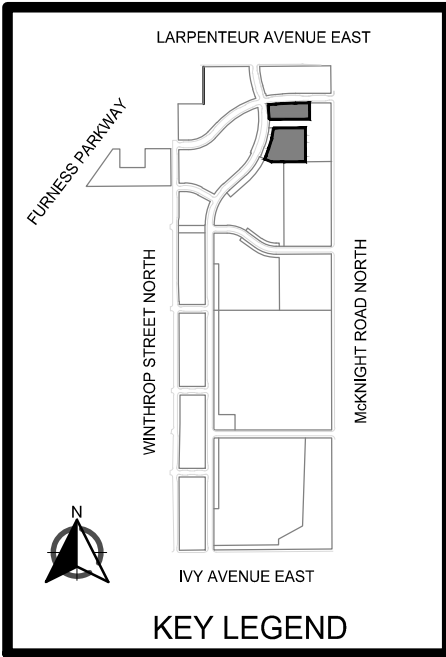
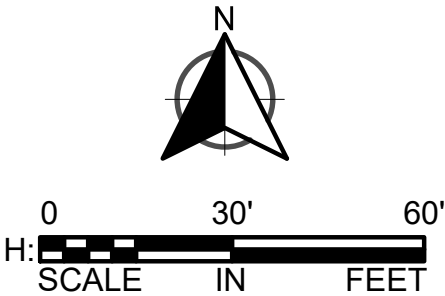
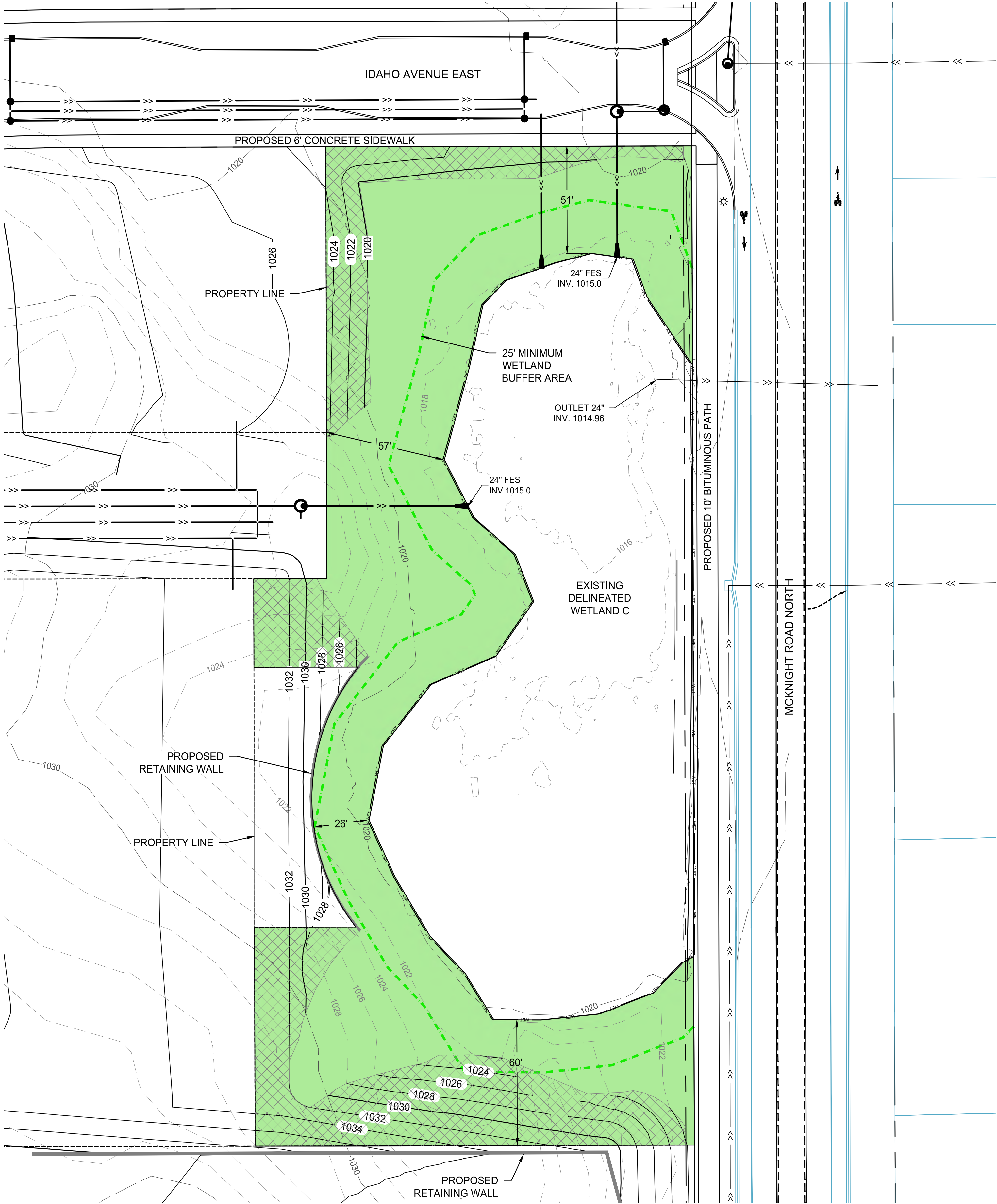
MnDOT MIX 35-241 (OR EQUIVALENT) OR  
IF A NUMBER OF TREES ARE PLANTED:  
MnDOT MIX 36-211 (OR EQUIVALENT)

WETLAND C BUFFER DATA:  
WETLAND C BUFFER AREA = 48,440 SF  
WETLAND C AVERAGE BUFFER WIDTH = 56'

LEGEND

- 1000 EXISTING CONTOUR
- 1000 PROPOSED CONTOUR
- WETLAND BUFFER AREA
- WETLAND MITIGATION AREA
- LIMITS OF PERMANENT WETLAND IMPACTS
- LIMITS OF SEDIMENT, DEBRIS AND  
CONTAMINATED SOILS REMOVALS  
(TEMPORARY WETLAND IMPACTS)
- WET DELINEATED WETLAND BOUNDARY
- LIMITS OF MINIMUM WETLAND BUFFER
- LIMITS OF MITIGATION AREA

NOTICE TO CONTRACTORS:  
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CORPORATION. A RESPONSE ACTION PLAN HAS BEEN PREPARED  
BY BRAUN INTERTEC CORPORATION DATED MARCH 1, 2022  
(PROJECT NO. B1903316.00). ALL CONSTRUCTION WORK AND  
REMOVALS SHALL BE IN ACCORDANCE WITH "RESPONSE ACTION  
PLAN FOR: HILLCREST REDEVELOPMENT SITE", PREPARED BY  
BRAUN INTERTEC CORPORATION, DATED MARCH 1, 2022. REFER TO  
THE "RAP" FOR ADDITIONAL DETAIL AND SPECIFICATION.



SCALE: AS SHOWN  
DESIGN BY: PJM  
PLAN BY: PJM  
CHECK BY: AH

REVISIONS

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DATE: \_\_\_\_\_ LIC. NO. \_\_\_\_\_

WETLAND C  
MITIGATION  
PLAN

WETLAND MITIGATION EXHIBITS FOR:

THE HEIGHTS  
SITE REDEVELOPMENT  
SAINT PAUL, MINNESOTA

Saint Paul  
Port Authority  
400 Wabasha Street North  
Suite 240  
St Paul, Minnesota 55102  
Phone 612-224-5686

WSB PROJECT NO.  
013987-000



WETLAND D & MITIGATION AREA D  
BUFFER STABILIZATION & REPLANTING:  
DISTURBED AREA WITHIN THE WETLAND BUFFER AREA  
AS SHOWN HEREON SHALL BE STABILIZED USING THE  
FOLLOWING SEED MIXTURES:

ALL DISTURBED BUFFER AREAS:

MnDOT MIX 35-241 (OR EQUIVALENT) OR  
IF A NUMBER OF TREES ARE PLANTED:  
MnDOT MIX 36-211 (OR EQUIVALENT)

DISTURBED WETLAND AND MITIGATION AREA:

ELEVATION 1031 TO 1029.5:  
MnDOT MIX 34-261 (OR EQUIVALENT)

ELEVATION 1029.5 TO 1027:  
MnDOT MIX 34-181 (OR EQUIVALENT)

WETLAND D & MITIGATION AREA BUFFER DATA:

WETLAND D BUFFER AREA = 34,192 SF

WETLAND D AVERAGE BUFFER WIDTH = 39'

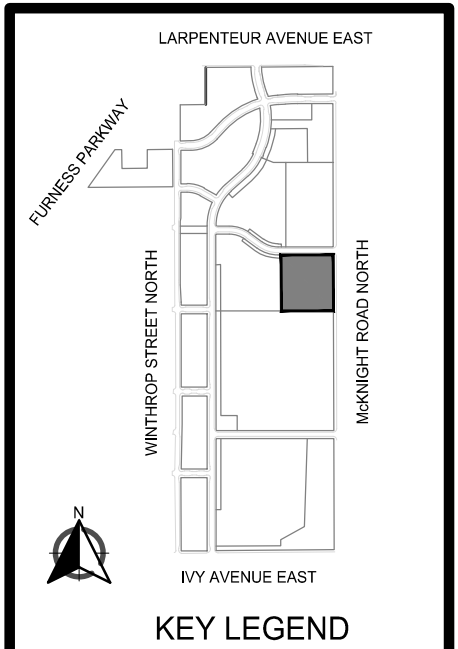
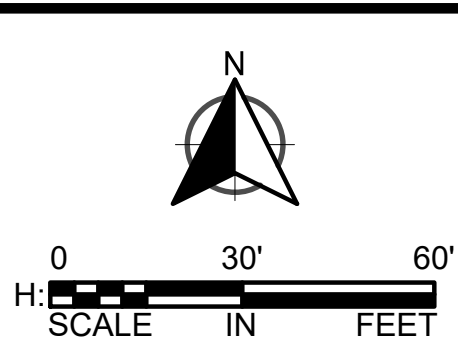
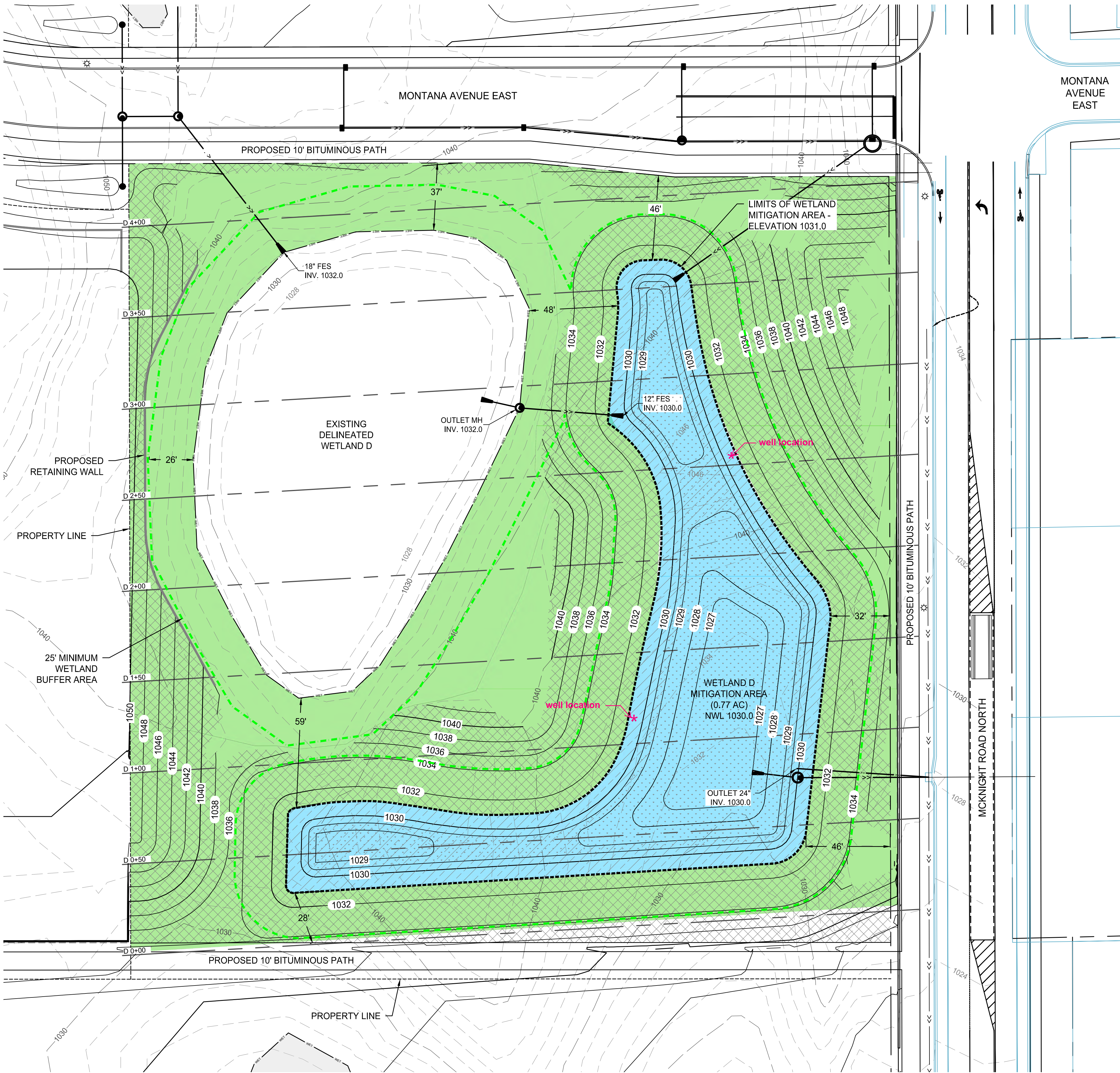
MITIGATION AREA D BUFFER AREA = 76,041 SF

MITIGATION AREA D AVERAGE BUFFER WIDTH = 55'

LEGEND

- 1000 EXISTING CONTOUR
- 1000 PROPOSED CONTOUR
- WETLAND BUFFER AREA
- WETLAND MITIGATION AREA
- LIMITS OF PERMANENT WETLAND IMPACTS
- LIMITS OF SEDIMENT, DEBRIS AND  
CONTAMINATED SOILS REMOVALS  
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- DELINEATED WETLAND BOUNDARY
- LIMITS OF MINIMUM WETLAND BUFFER
- LIMITS OF MITIGATION AREA

NOTICE TO CONTRACTORS:  
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wsb

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DATE: \_\_\_\_\_ LIC. NO. \_\_\_\_\_

WETLAND D  
MITIGATION  
PLAN

WETLAND MITIGATION EXHIBITS FOR:  
**THE HEIGHTS**  
SITE REDEVELOPMENT  
SAINT PAUL, MINNESOTA

Saint Paul  
Port Authority  
400 Wabasha Street North  
Suite 240  
St Paul, Minnesota 55102  
Phone 612-224-5686

WSB PROJECT NO.  
013987-000



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WETLAND H MITIGATION AREA  
BUFFER STABILIZATION & REPLANTING:  
DISTURBED AREA WITHIN THE WETLAND BUFFER AREA  
AS SHOWN HEREON SHALL BE STABILIZED USING THE  
FOLLOWING SEED MIXTURES:

ALL DISTURBED BUFFER AREAS:

MnDOT MIX 35-241 (OR EQUIVALENT) OR  
IF A NUMBER OF TREES ARE PLANTED:  
MnDOT MIX 36-211 (OR EQUIVALENT)

DISTURBED WETLAND AND MITIGATION AREA:

ELEVATION 990 TO 988.5:  
MnDOT MIX 34-261 (OR EQUIVALENT)

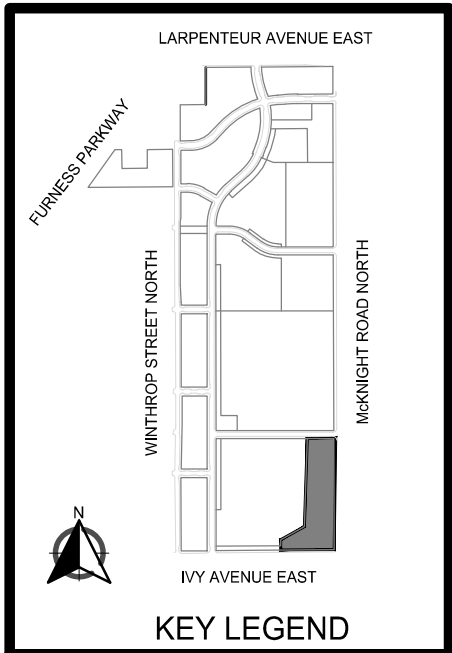
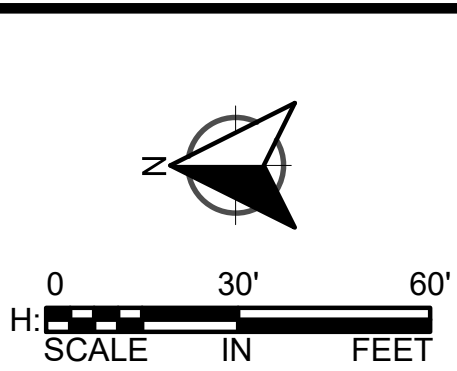
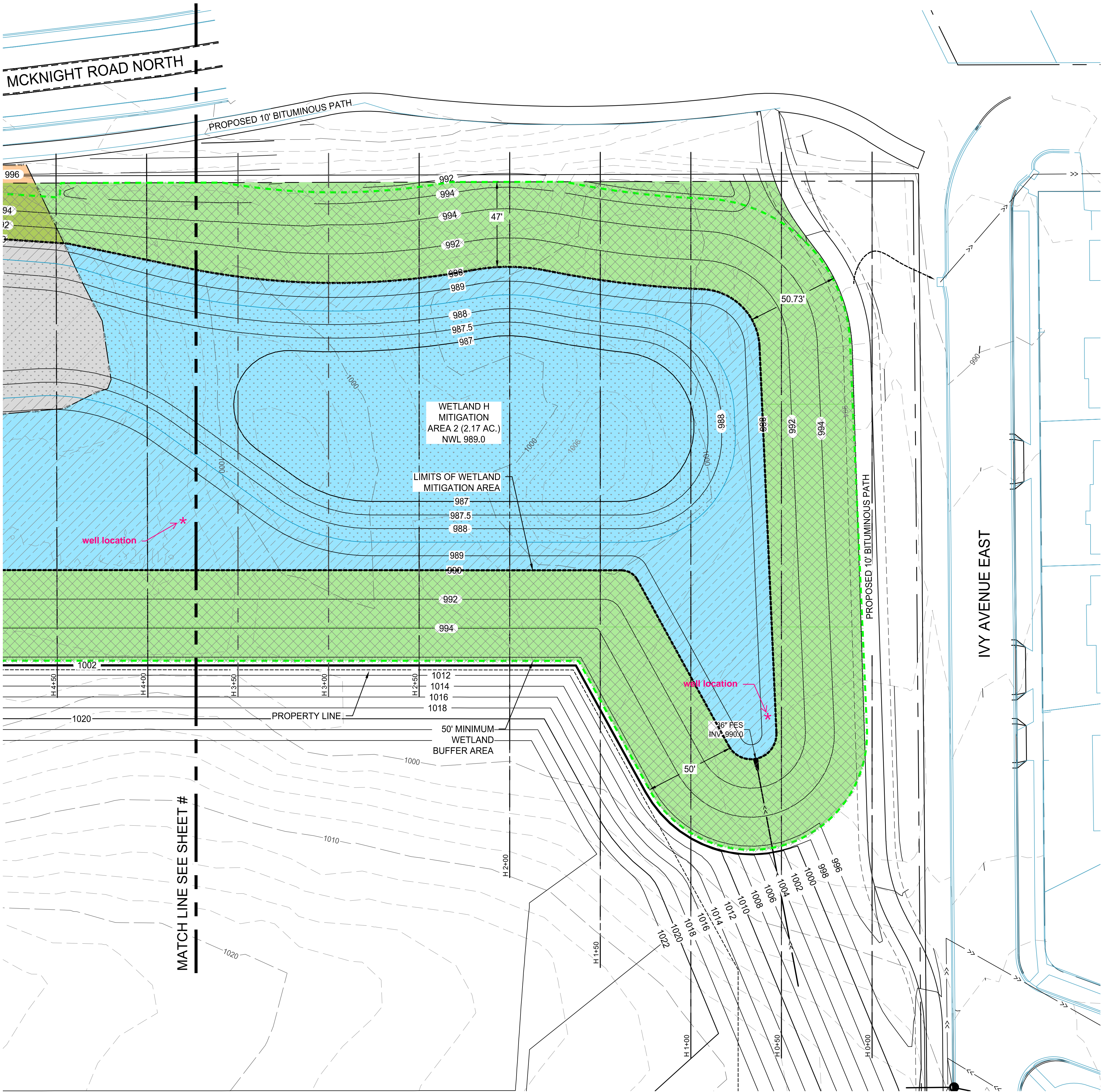
ELEVATION 988.5 TO 987:  
MnDOT MIX 34-181 (OR EQUIVALENT)

WETLAND H BUFFER DATA:  
WETLAND AND AND MITIGATION  
AREA H BUFFER TOTAL= 100,127 SF  
AVERAGE BUFFER WIDTH = 53'

LEGEND

- 1000 EXISTING CONTOUR
- 1000 PROPOSED CONTOUR
- WETLAND BUFFER AREA
- WETLAND MITIGATION AREA
- LIMITS OF PERMANENT WETLAND IMPACTS
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wsb

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DATE:                      LIC. NO.                     

WETLAND H  
MITIGATION  
PLAN

WETLAND MITIGATION EXHIBITS FOR:  
**THE HEIGHTS**  
SITE REDEVELOPMENT  
SAINT PAUL, MINNESOTA

Saint Paul  
Port Authority  
400 Wabasha Street North  
Suite 240  
St Paul, Minnesota 55102  
Phone 612-224-5686

WSB PROJECT NO.  
013987-000



## Minnesota Wetland Conservation Act Notice of Decision

<b>Local Government Unit:</b> City of Saint Paul	<b>County:</b> Ramsey
<b>Applicant Name:</b> Saint Paul Port Authority	<b>Applicant Representative:</b> Alison Hardwood
<b>Project Name:</b> The Heights	<b>LGU Project No. (if any):</b>
<b>Date Complete Application Received by LGU:</b> March 7, 2023	
<b>Date of LGU Decision:</b> May 4, 2023	
<b>Date this Notice was Sent:</b> May 11, 2023	

**WCA Decision Type - check all that apply**

<input type="checkbox"/> Wetland Boundary/Type	<input checked="" type="checkbox"/> Sequencing	<input checked="" type="checkbox"/> Replacement Plan	<input type="checkbox"/> Bank Plan (not credit purchase)
<input checked="" type="checkbox"/> No-Loss (8420.0415)	<input type="checkbox"/> Exemption (8420.0420)		
Part: <input type="checkbox"/> A <input checked="" type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input checked="" type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> G <input type="checkbox"/> H		Subpart: <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9	

**Replacement Plan Impacts (replacement plan decisions only)**

<b>Total WCA Wetland Impact Area:</b> 2.87 Acres
<b>Wetland Replacement Type:</b> <input checked="" type="checkbox"/> Project Specific Credits: 2.565 Acres <input checked="" type="checkbox"/> Bank Credits: 3.175 Acres
<b>Bank Account Number(s):</b>

**Technical Evaluation Panel Findings and Recommendations (attach if any)**

<input type="checkbox"/> Approve <input checked="" type="checkbox"/> Approve w/Conditions <input type="checkbox"/> Deny <input type="checkbox"/> No TEP Recommendation
--

**LGU Decision**

<input checked="" type="checkbox"/> Approved with Conditions (specify below) <sup>1</sup> List Conditions: See attached TEP Findings of Fact	<input type="checkbox"/> Approved <sup>1</sup>	<input type="checkbox"/> Denied
<b>Decision-Maker for this Application:</b> <input checked="" type="checkbox"/> Staff <input type="checkbox"/> Governing Board/Council <input type="checkbox"/> Other:		
<b>Decision is valid for:</b> <input checked="" type="checkbox"/> 5 years (default) <input type="checkbox"/> Other (specify):		

<sup>1</sup> *Wetland Replacement Plan approval is not valid until BWSR confirms the withdrawal of any required wetland bank credits. For project-specific replacement a financial assurance per MN Rule 8420.0522, Subp. 9 and evidence that all required forms have been recorded on the title of the property on which the replacement wetland is located must be provided to the LGU for the approval to be valid.*

**LGU Findings – Attach document(s) and/or insert narrative providing the basis for the LGU decision<sup>1</sup>.**

<input checked="" type="checkbox"/> Attachment(s) (specify): TEP Field Notes Oct 13, 2022 and TEP meeting 3/13/2023 <input checked="" type="checkbox"/> Summary: See attached TEP Findings of Fact, note typo - the recommendation only has 6 recommendations not 7
--

<sup>1</sup> Findings must consider any TEP recommendations.

**Attached Project Documents**

<input type="checkbox"/> Site Location Map <input type="checkbox"/> Project Plan(s)/Descriptions/Reports (specify):
---

## Appeals of LGU Decisions

If you wish to appeal this decision, you must provide a written request within 30 calendar days of the date you received the notice. All appeals must be submitted to the Board of Water and Soil Resources Executive Director along with a check payable to BWSR for \$500 *unless* the LGU has adopted a local appeal process as identified below. The check must be sent by mail and the written request to appeal can be submitted by mail or e-mail. The appeal should include a copy of this notice, name and contact information of appellant(s) and their representatives (if applicable), a statement clarifying the intent to appeal and supporting information as to why the decision is in error. Send to:

Appeals & Regulatory Compliance Coordinator  
Minnesota Board of Water & Soils Resources  
520 Lafayette Road North  
St. Paul, MN 55155  
[travis.germundson@state.mn.us](mailto:travis.germundson@state.mn.us)

Does the LGU have a local appeal process applicable to this decision?

☒ Yes<sup>1</sup>      ☐ No

<sup>1</sup>If yes, all appeals must first be considered via the local appeals process.

**Local Appeals Submittal Requirements** (LGU must describe how to appeal, submittal requirements, fees, etc. as applicable)

**Send petition for appeal and \$490 fee to: Zoning Administrator, City of Saint Paul, 375 Jackson Street, Suite 220, St. Paul, MN 55101**

## Notice Distribution (include name)

*Required on all notices:*

<input checked="" type="checkbox"/> SWCD TEP Member: Mike Goodnature	<input checked="" type="checkbox"/> BWSR TEP Member: Ben Meyer
<input type="checkbox"/> LGU TEP Member (if different than LGU contact):	
<input checked="" type="checkbox"/> DNR Representative: Jim Levitt	
<input checked="" type="checkbox"/> Watershed District or Watershed Mgmt. Org.: Nicole Soderholm	
<input checked="" type="checkbox"/> Applicant: Kathryn Sarnecki	<input checked="" type="checkbox"/> Agent/Consultant: Alison Hardwood

*Optional or As Applicable:*

<input type="checkbox"/> Corps of Engineers:	
<input type="checkbox"/> BWSR Wetland Mitigation Coordinator (required for bank plan applications only):	
<input type="checkbox"/> Members of the Public (notice only):	<input type="checkbox"/> Other:

<b>Signature:</b> 	<b>Date:</b> 05/11/2023
--	-------------------------

This notice and accompanying application materials may be sent electronically or by mail. The LGU may opt to send a summary of the application to members of the public upon request per 8420.0255, Subp. 3.



## Minnesota Wetland Conservation Act Technical Evaluation Panel Form

This form can be used to document TEP findings and recommendations related to WCA decisions, determinations, enforcement and pre-application reviews.

<b>Local Government Unit:</b> City of Saint Paul	<b>County:</b> Ramsey
<b>Landowner/Applicant:</b> Saint Paul Port Authority	<b>Agent/Representative(s):</b> Alison Hardwood
<b>Project Name:</b> The Heights	<b>Project No. (if any):</b>
<b>Project Location:</b> 2200 Larpenteur Ave, Saint Paul	

**Purpose of TEP Findings/Recommendation** - check all that apply and describe

<input type="checkbox"/> Pre-application review <input checked="" type="checkbox"/> Application Review (related to WCA Decision)	
<input type="checkbox"/> Local Government Road Wetland Replacement Program Eligibility <input type="checkbox"/> WCA Determination Request	
<input type="checkbox"/> Other (specify):	
<b>Describe:</b>	

**Meeting Type** – check all that apply and specify dates as applicable

<input checked="" type="checkbox"/> In-Person Meeting(s), Date(s): <b>March 23, 2023</b>	<input type="checkbox"/> Electronic Exchanges (email, skype, etc.)
<input checked="" type="checkbox"/> Onsite Review(s), Date(s): <b>Oct 14, 2022</b>	<input type="checkbox"/> Other (specify):

### Findings and Recommendations

<p>Finding 1. The application adequately reflects the Technical Evaluation Panel input provided within the pre-application meetings.</p>
<p>Finding 2. The application contains satisfactory information required to meet Minn Rule 8420.0325 (sequencing applications) and 8420.0330 (Replacement Plan Applications) including Subpart 3.B pertaining to project-specific replacement.</p>
<p>Finding 3. The application adequately identifies the project purpose and provides a detailed description of the project and alternatives considered, thereby meeting sequencing standards in Minn Rule 8420.0520 including Subparts 3 and 4.</p>
<p>Finding 4. The application demonstrates no feasible and prudent alternative is available that would avoid impacts to wetlands, resulting in filling 30,056 sq-ft of Wetland A, 18,730 sq-ft of Wetland B, 21,344 sq-ft of Wetland E, 5,663 sq-ft of Wetland F, 16,988 sq-ft of Wetland G, 20,909 sq-ft of Wetland H and 11,326 sq-ft of Wetland I, as shown in Part Four: Aquatic Resource Impact Summary. These impacts total an area of 2.96 acres of wetland impacts on the property.</p>
<p>Finding 5. The application adequately demonstrates the requirement of Minn Rule 8420.0522 (replacement standard) have duly considered and addressed, and ecological suitability and sustainability are satisfactorily provided within the replacement plan.</p>
<p>Finding 6. The application adequately demonstrates the requirement of MN 8420.0415 No-Loss Criteria Subpt B and E for removing the mercury-contaminated sediment and buried debris from within Wetland H, totaling about 0.96 acres of wetland at various depths below the soil surface. Also, the application demonstrated the sediment build up at the invert structure within Wetland H.</p>

Finding 7. A \$515,750 financial assurance will be provided for the replacement plan.

Finding 8. The application adequately demonstrates a vegetation establishment plan, goals and outcomes for credit allocation, and five-year monitoring plan.

Recommendations: Approval request to modify timeline to Replacement Plan with 7 conditions

1. Receipt of surety of \$515,750 by City of Saint Paul. The financial assurance is to be held until monitoring and maintain reports are submitted and the mitigation area is inspected by LGU staff and deemed functioning as designed. The sponsor may request a partial release of assurance based on performance standards being met.
2. Review structural components monitoring such that corrective action is taken if there is an elevation change of 0.2 feet or greater of the control structure system.
3. The wetlands be mitigated before or concurrent to draining or filling of wetlands, both from an ecological and flood control perspective.
4. The applicant shall replace the 2.96 acres of impacted wetland on site at a 1:1 ratio with the remaining wetland replacements replaced via credits purchased from a wetland from a wetland bank.
5. Mercury-contaminated sediment from within Wetland H will be mitigated and removed in accordance to the site RAP plan. All contaminated sediment will be disposed at MPCA-approved facility per MPCA guidance
6. Within Wetland H excavate the accumulated contaminated sediment and debris back to 987.5 ft, with the invert reinstalled at 987.0 ft in accordance to the elevations depicted in the McKnight Road as-builts

☒ Attachment(s) (specify): HB Wetlands - Timeline Memo, Wetland Replacement Plan Location, Wetland Replacement Plan Timelines

#### DNR Protected Waters and Shoreland Protection Zone

Will the project/activity affect DNR public waters, DNR public waters wetlands or wetlands within the shoreland protection zone? ☐ Yes ☒ No If yes, DNR representative is a member of the TEP.

#### Signatures

<input checked="" type="checkbox"/> LGU TEP Member: Andrew Hogg	Agree with Findings & Recommendations: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Signature: <u>Andrew Hogg</u>	Date: 05/03/2023
<input checked="" type="checkbox"/> SWCD TEP Member: Mike Goodnature	Agree with Findings & Recommendations: <input type="checkbox"/> Yes <input type="checkbox"/> No
Signature: <u>Mike Goodnature</u>	Date: May 10, 2023
<input checked="" type="checkbox"/> BWSR TEP Member: Ben Meyer	Agree with Findings & Recommendations: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Signature: <u>Benjamin L. Meyer</u> <small>Benjamin L. Meyer (May 5, 2023 16:30 CDT)</small>	Date: May 5, 2023
<input checked="" type="checkbox"/> DNR TEP Member: Jim Levitt	Agree with Findings & Recommendations: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Signature: <u>Jim Levitt</u> <small>Jim Levitt (May 9, 2023 09:42 CDT)</small>	Date: May 9, 2023





# RAMSEY-WASHINGTON

## METRO WATERSHED DISTRICT

### MEMORANDUM

**Date:** June 7<sup>th</sup>, 2023

**To:** Board of Managers and Staff

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

**Subject:** May Enforcement Action Report

During May 2023:

<b>Number of Violations:</b>	<b>4</b>
Install/Repair Inlet Protection	1
Remove Discharged Sediment	1
Implement Proper Dewatering	1
Contain Liquid/Solid Wastes	1

### Activities and Coordination Meetings:

Active permit site monitoring and inspections, permitting assistance to private developers and public entities, Wetland Conservation Act (WCA) administration/procedures, new permit review with Barr Engineering, TAC rule change process, preconstruction meetings, investigation of possible wetland violation, investigation of possible permit violation, BMP Inspector Intern onboarding and training, Woodbury/RWMWD inspection meeting, U of M regulatory enforcement training presentation, MPCA filtration media webinar, Watershed DEIA workgroup, resident inquiry responses

### Single Lot Residential Permits Approved by Staff:

None

### Permits Closed:

None



## **Project Updates:**

### **#22-27 3M Lake Culvert Maintenance (Maplewood)**

Culvert replacement at 3M Lake is underway. The original culvert was buried in accumulated sediment, and not allowing proper water flow into the waterbody. The contractor removed 135 cubic yards of accumulated sediment and replaced the pipe structure to ensure it can function properly. Silt fence was used as sediment control on the shore banks with haybales in the shallow water interface. The site will be immediately restored now that pipe work is complete, and staff will monitor for proper vegetation reestablishment.



### **#22-32 Oakdale Elementary Demolition**

Demolition work is complete at the previous Oakdale Elementary location. Grading has since begun to turn the large open area into grass space. This project is part of a larger phased redevelopment of the adjacent Tartan High School. During a routine inspection on May 9<sup>th</sup> staff found the site to be pumping turbid water out of a temporary sediment basin, and into a nearby storm structure. Staff followed storm sewer maps and found the ultimate outfall structure located a few blocks away. The outfall had turbid water coming out of it, determined to be from the site's non-compliant dewatering operations.



Staff directed the site to immediately stop pumping and had the MPCA Duty Officer called to report the discharge. Staff communicated to contractors that pumping could not be resumed until improvements were made.

Staff returned to the site on May 12<sup>th</sup> to review new dewatering operations onsite. Contractors had purchased a flocculant sock as well as installed multiple rock filter berms. Contractors turned the pump on while staff were onsite, and both observed the new discharge. Discharge was confirmed to be clean and suitable for discharging offsite. Staff required that the site submit proof of clean discharge every four hours through the duration of pumping. Once pumping is complete, the site will fill in the temporary basin and grade it out to match the rest of the site before being restored with grass.



## MEMORANDUM

**Date:** June 7, 2023  
**To:** RWMWD Board of Managers  
**From:** Nicole Maras, Permit Coordinator  
**Subject:** 2022/2023 Proposed Permit Rule Revisions

Ramsey-Washington and Capitol Region watershed districts initiated a permit rules revision process in 2022. A Joint Rules Technical Advisory Committee (TAC) meeting was held on May 23, 2023.

### Rule Change Highlights:

- Clarifications to language and definitions throughout
- Miscellaneous process-driven language changes, clarification (Rule B)
- Disconnected impervious definition addition and criteria exemption from Rule C
- Linear cost cap exceedance to allow for volume reduction credit banking
- Linear projects not meeting cost cap and short on treatment shall be assessed at full Stormwater Impact Fund (SIF) rate
- Require soil borings within proposed BMP footprints
- By board resolution, increase linear cost cap from \$75,000 per acre of impervious to \$94,000 per acre of impervious
- By board resolution, increase SIF rate from \$100,000 per acre of impervious to \$125,000 per acre of impervious

See enclosed for a draft copy of the revised rules with tracked changes following the 1-month informal TAC review and comment period that took place from February 8th, 2023-March 8th, 2023. A proposal to remove bridges from the Rule C exemptions has since been discarded due to TAC comments during informal review. Additional comments were submitted by Stantec, City of St. Paul Sewer & Utility, Ramsey County Public Works, Washington County Public Health & Environment, City of Roseville, and WSB. A copy of those comments and responses are also enclosed.

### Requested Board Action:

Authorize the distribution of the enclosed revised rules for a formal 45-day public review and comment period.

The 45-day comment period will expire 45 calendar days after notice is sent (expected mid June). A public hearing on the proposed rule changes will be held at the Jun 28th board meeting.



# Ramsey-Washington Metro Watershed District Rules

Adopted 09/06/2006

Revised 06/05/2019

Commented [NS1]: Update

## Table of Contents

Commented [NS2]: Check page numbers for accuracy

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Commented [NS3]: Update footer

## Certification of Rules

I, **Pamela Skinner**, Secretary of the Ramsey-Washington Metro Watershed District Board of Managers, certify that the attached is a true and correct copy of the Rules of the Ramsey-Washington Metro Watershed District having been properly adopted by the Board of Managers of the Ramsey-Washington Metro Watershed District.

Dated: **June 5, 2019**

Commented [NS4]: Update as needed

Commented [NS5]: Update

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## General Policy Statement

The Ramsey-Washington Metro Watershed District (District) is a political subdivision of the State of Minnesota, established under the Minnesota Watershed Law, Minnesota State Statute 103d. The District is also a watershed management organization as defined under the Minnesota Metropolitan Water Management Program and is subject to its directives and authorizations. Under the Watershed Law and the Metropolitan Water Management Program, the District exercises a series of powers to accomplish its statutory purposes. The District's general statutory purpose as stated in 103d.201 is to conserve the natural resources of the state by land use planning, flood control, and other conservation projects by using sound scientific principles for the protection of the public health and welfare and the provident use of the natural resources.

As required under the Metropolitan Water Management Program, the District has adopted a Watershed Management Plan, which contains the framework and guiding principles for the District in carrying out its statutory purposes. It is the District's intent to implement the Plan's goals and policies in these rules.

Land alteration affects the rate, volume, and quality of surface water runoff which ultimately must be accommodated by the existing surface water systems within the District. The watershed is 65 square miles and highly urbanized.

Land alteration and urbanization has and can continue to degrade the quality of runoff entering the waterbodies of the District due to non-point source pollution. Sedimentation from ongoing erosion processes and construction activities can reduce the hydraulic capacity of waterbodies and degrade water quality. Water quality problems already exist in all the lakes and other water resources throughout the District. The Mississippi River is the principal receiving water for all runoff from the District and is listed by the Environmental Protection Agency (EPA) and Minnesota Pollution Control Agency (MPCA) as "impaired".

Projects that do not address the increased rate or volume of stormwater runoff from urban development can aggravate existing flooding and water quality problems and contribute to or create new ones. Projects which fill floodplain or wetland areas without compensatory storage can aggravate existing flooding by reducing flood storage and hydraulic capacity of waterbodies, and can degrade water quality by eliminating the filtering capacity of those areas.

In these rules the District seeks to protect the public health and welfare and the natural resources of the District by providing reasonable regulation of the District's lands and waters: 1) to reduce the severity and frequency of flooding and high water; 2) to preserve floodplain and wetland storage capacity; 3) to improve the chemical, physical and

biological quality of surface water; 4) to reduce sedimentation; 5) to preserve waterbodies' hydraulic and navigational capacity; 6) to preserve natural wetland and shoreland features; and 7) to minimize future public expenditures to avoid or correct these problems.

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## **Relationship of Ramsey-Washington Metro Watershed District to Municipalities**

The District recognizes that the primary control and determination of appropriate land use is the responsibility of the municipalities. Accordingly, the District will coordinate permit application reviews involving land development with the municipality where the land is located.

The District intends to be active in the regulatory process to ensure that water resources are managed in accordance with District goals and policies. ~~The District intends to begin implementing these rules effective June 5, 2019. All developments that do not have municipal approval on or before June 5, 2019 will require a District permit under these rules.~~ Municipalities have the option of assuming a more active role in the permitting process after the adoption of a local water management plan approved by the District, and by adopting and implementing local ordinances consistent with the approved plan.

The District will also review projects sponsored or undertaken by municipalities and other governmental units, and will require permits in accordance with these rules for governmental projects which have an impact on water resources of the District. These projects include but are not limited to: land development, road, trail, and utility construction and reconstruction.

The District desires to serve as technical advisor to the municipalities in their preparation of local surface water management plans and the review of individual development proposals prior to investment of significant public or private funds. To promote a coordinated review process between the District and the municipalities, the District encourages the municipalities to involve the District early in the planning process.

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## **Rule A: DEFINITIONS**

For the purposes of these rules, unless the context otherwise requires, the following words and terms have the meanings set forth below.

References in these Rules to specific sections of the Minnesota Statutes or Rules include any amendments, revisions or recodification of such sections. References in these Rules to manuals, plans, rules, assessments, modeling methods, technical guidance or District policies shall include any revisions or amendments.

The words “shall” and “must” are mandatory; the word “may” is permissive.

**Adjacent-** An area of land that has a common boundary or edge with a water resource or development.



**Alteration or Alter-** When used in connection with public waters or wetlands, any activity that will change or diminish the course, current, or cross-section of public waters or wetlands.

**Applicant-** Any person, entity, or political subdivision that submits an application to the District for a permit under these Rules.

Approval: Date of RWMWD Board action, including approval with any conditions.

**Atlas 14-** National Oceanic and Atmospheric Administration's (NOAA) precipitation event frequency and magnitude estimates (replaces TP-40).

**Banking Credits-** Volume reduction in excess of the standard requirement for use on subsequent projects that are unable to meet the standard requirement onsite.

**Beltline Interceptor-** That portion of the Beltline Storm Sewer that is owned and operated by the District.

**Best Management Practices (BMPs)-** Measures taken to minimize negative effects on the environment including those documented in the Minnesota Stormwater Manual.

**Board or Board of Managers-** The Board of Managers of the Ramsey-Washington Metro Watershed District.

**Clean Water Act-** The Federal Water Pollution Control Act (33 U.S.C. § 1251 et seq.), and any subsequent amendments thereto.

**Common Plan of Development or Sale-** A contiguous area where multiple separate and distinct land disturbing activities may be taking place at different times, on different schedules, but under one proposed plan. One plan is broadly defined to include design, permit application, advertisement or physical demarcation indicating that land disturbing activities may occur.

**Compensatory Storage-** Excavated volume of material below the floodplain elevation required to offset floodplain fill.

**Criteria-** Specific details, methods and specifications that apply to all permits and reviews and that guide implementation of the District's goals and policies.

**Critical Duration Storm Event-** Storm duration that produces the largest peak discharge rates within a channel or storm sewer system and the highest water surface elevation within a water body.

**Development-** Any land disturbance, redevelopment affecting land, or creation/replacement of impervious surface, including but not limited to, road and/or parking lot construction or reconstruction.

Disconnected Impervious- Impervious surface that directs runoff to adjacent pervious areas where it can be infiltrated.

**District-** The Ramsey-Washington Metro Watershed District established under the Minnesota Watershed Law, Minnesota Statutes Chapter 103D.

**Drainage Way-** All water conveyance systems including but not limited to storm sewers, ditches, culverts, and open channels.

**Erosion-** The wearing away of the ground surface as a result of wind, flowing water, ice movement, or land disturbance.

**Erosion and Sediment Control Plan-** A plan of BMPs or equivalent measures designed to control runoff and erosion and to retain or control sediment on land during the period of land disturbance in accordance with the standards set forth in these Rules.

**Excavation-** The artificial displacement or removal of soil or other material.

**Fill-** The deposit of soil or other earth materials by artificial means.

**Floodplain-** The area adjoining a watercourse or natural or man-made water body, including the area around lakes, marshes, and lowlands, that is inundated during a 100-year flood.

**Freeboard-** The vertical distance between the regulatory high water elevation calculated by hydrologic modeling and the regulatory elevation on a structure or roadway.

**Gross Pollutants-** Larger particles of litter, vegetative debris, floatable debris, and coarse sediments in stormwater runoff.

**Habitable-** Any enclosed space usable for living or business purposes, which includes but is not limited to: working, sleeping, eating, cooking, recreation, office, office storage, or any combination thereof. An area used only for storage incidental to a residential use is not included in the definition of "Habitable."

**Hazardous Materials-** Any material, including any substance, waste, or combination thereof, which because of its quantity, concentration, or physical, chemical, or infectious characteristics may cause, or significantly contribute to, a substantial present or potential hazard to human health, safety, property, or the environment when improperly treated, stored, transported, disposed of, or otherwise managed.

**Illicit Connection-** An illicit connection is defined as either of the following:

1. Any drain or conveyance, whether on the surface or subsurface, which allows an illegal discharge to enter the storm drain system, including but not limited to: any conveyances which allow any non-stormwater discharge including sewage, process wastewater, and wash water to enter the storm drain system and any connections to the storm drain system from indoor drains and sinks, regardless of whether said drain or connection had been previously allowed, permitted, or approved by a political subdivision; or
2. Any drain or conveyance connected from a commercial or industrial land use to the storm drain system that has not been documented in plans, maps, or equivalent records and approved by a political subdivision.

**Illicit Discharge-** Any direct or indirect non-stormwater discharge to the storm drain system, except as exempted in Paragraph 5 of Rule G in these Rules.

**Impaired Waters-** A waterbody that does not meet water quality standards and designated uses because of pollutant(s), pollution, or unknown causes of impairment.

**Impervious Surface-** A surface compacted or covered with material so as to be highly resistant to infiltration by runoff. Impervious surface shall include roads, driveways and parking areas, sidewalks or trails greater than three feet wide, whether or not paved, patios, tennis and basketball courts, ~~swimming pools~~, buildings with roofs, covered decks and other structures.

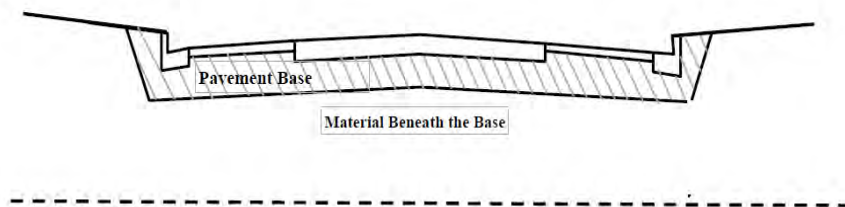
**Infiltration-** A stormwater retention method for the purpose of reducing the volume of stormwater runoff by transmitting a flow of water into the ground through the earth's surface.

**Infiltration Area-** An area set aside or constructed where stormwater from impervious surface runoff is treated and disposed of into the soil by percolation and filtration, and includes but is not limited to: infiltration basins, infiltration trenches, dry wells, underground infiltration systems, and permeable pavement.

**Iron-Enhanced Sand-** Any Best Management Practices (BMPs) that incorporate filtration media mixed with iron to remove dissolved phosphorus from stormwater.

**Land Disturbance-** Any activity ~~on a property~~ that results in a change or alteration in the existing ground cover (both vegetative and non-vegetative) and/or the existing soil topography. Land disturbing activities include but are not limited to: development, redevelopment, demolition, construction, reconstruction, clearing, grading, filling, stockpiling, excavation, and borrow pits. ~~Routine vegetation management and pavement milling/overlay activities that do not disturb the material beneath the pavement base will not be considered land disturbance (see example below). In addition, in-kind catch basin and pipe repair/replacement done in conjunction with a mill/overlay project shall not be considered land disturbance.~~

**Pavement Example:**



Commented [NS6]: Delete pavement graphic and move to Rule C



**Linear Cost Cap-** Maximum required costs specific to satisfying the onsite volume reduction and water quality standards for linear projects

**Linear Project-** Roads, trails, and sidewalks that are not part of a common plan of development or sale.

**Low Floor-** The floor of the lowest enclosed area including the basement. An unfinished or flood-resistant enclosure, used solely for parking of vehicles, building access, or storage in an area other than a basement area shall not be considered a building's lowest floor.

**Low Opening-** The elevation of the lowest hydraulically connected entry point to a structure such as a door or window.

**Municipal Separate Storm Sewer System (MS4)-** The conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutter, ditches, man-made channels, or storm drains):

1. Owned and operated by a state, city, town, borough, county, parish, district, association, or other public body (created by or pursuant to state law) having jurisdiction over disposal of sewage, industrial wastes, stormwater, or other wastes, including special districts under state law such as a sewer district, flood control district or drainage district, or similar entity, or an Indian tribe or an authorized Indian organization, or a designated and approved management Agency under section 208 of the Clean Water Act (33 U.S.C § 1288) that discharges to waters of the United States;
2. Designed or used for collecting or conveying stormwater;
3. Which is not a combined sewer; and
4. Which is not part of a Publicly Owned Treatment Works (POTW) as defined at 40 CFR § 122.2.

**Municipality-** Any city wholly or partly within the Ramsey-Washington Metro Watershed District.

**National Pollutant Discharge Elimination System (NPDES) Stormwater Discharge Permit-** A permit issued by the Minnesota Pollution Control Agency that authorizes the discharge of pollutants to waters of the State.

**Non-Point Source Pollution-** Pollution that enters a water body from diffuse origins in the watershed and does not result from discernable, confined, or discrete conveyances.

**Non-Stormwater Discharge-** Any discharge to the storm drain system that is not composed entirely of stormwater.

~~**NURP-** Nationwide Urban Runoff Program developed by the EPA to study stormwater runoff from urban development.~~

Commented [NS7]: NURP is not referenced elsewhere in RWMWD rules so definition can be deleted

**Ordinary High Water Level (OHW)-** The elevation delineating the highest water level which has been maintained for a sufficient period of time to leave evidence upon the landscape. The ordinary high water level is commonly the point where the natural vegetation changes from predominantly aquatic to predominantly terrestrial. For

watercourses, the OHW level is the elevation of the top of the bank of the channel. For Public Waters and Public Waters Wetlands, the Minnesota Department of Natural Resources (DNR) determines the OHW.

**Owner-** A person or entity who has legal title to a parcel of land or a purchaser under a contract for deed.

**Parcel-** A parcel of land designated by plat, metes and bounds, registered land survey, auditor's subdivision, or other acceptable means and separated from other parcels or portions by its designation.

**Permittee-** The person or political subdivision in whose name a permit is issued pursuant to these Rules.

**Person-** Any individual, trustee, partnership, unincorporated association, limited liability company or corporation.

**Political Subdivision-** A municipality, county, or other political division, agency, or subdivision of the state.

**Pollutant-** Anything which causes or contributes to pollution. Pollutants may include but are not limited to: paints, varnishes, and solvents; oil and other automotive fluids; non-hazardous liquid and solid wastes; yard wastes; refuse, rubbish, garbage, litter, or other discarded or abandoned objects, ordinances and accumulations; floatables; pesticides, herbicides, and fertilizers; hazardous substances and wastes; sewage, fecal coliform and pathogens; dissolved and particulate metals; animal wastes; wastes and residues that result from constructing a building or structure; and noxious or offensive matter of any kind.

**Potential Stormwater Hotspots (PSHs)-** Commercial, industrial, institutional, municipal, or transportation-related operations that may produce higher levels of stormwater pollutants and/or present a higher potential risk for spills, leaks, or illicit discharges. PSHs may include, but are not limited to: gas stations, petroleum wholesalers, vehicle maintenance and repair facilities, auto recyclers, recycling centers and scrap yards, landfills, solid waste facilities, wastewater treatment plants, airports, railroad stations and associated maintenance facilities, and highway maintenance facilities.

**Public Waters-** Any waters as defined in Minnesota Statutes Section 103G.005, Subdivision 15.

**Public Water Wetlands-** Any wetlands as defined in Minnesota Statutes Section 103G.005, Subdivision 15a.

**River Dependent-** An activity or land use that relies on direct access to or use of the Mississippi River.

**Rules-** Regulations of the Ramsey-Washington Metro Watershed District intended to conserve the natural resources of the state by land use planning, flood control, and other conservation projects for the protection of the public health and welfare, and the

[provident use of the natural resources](#)

**Runoff-** Rainfall, snowmelt, or irrigation water flowing over the ground surface.

**Seasonal High Groundwater-** The highest seasonal elevation in the ground that has soil voids that fill with water.

**Sediment-** Soil or other surficial material transported by surface water as a product of erosion.

**Sedimentation-** The process or action of depositing sediment.

**Sequencing Flexibility-** Deviation from the standard sequencing process as described in MN Rule 8420.0520, Subp. 7a.

**Sewage-** Waste produced by, including but not limited to: toilets, bathing, laundry, culinary operations, or the floor drains associated with these sources.

**Standards-** A preferred or desired level of quantity, quality, or value.

**Storm Drain System-** Publicly-owned facilities by which stormwater is collected and/or conveyed, including but not limited to: roads with drainage systems, municipal streets, gutters, curbs, inlets, piped storm drains, pumping facilities, retention and detention basins, natural and human-made or altered drainage channels, reservoirs, and other drainage structures.

**Stormwater-** Any surface flow, runoff, or drainage consisting entirely of water from any form of natural precipitation and resulting from such precipitation.

**Stormwater Impact Fund-** [RWMWD administered fund into which an applicant may contribute money as a last alternative to providing onsite stormwater treatment per the alternative compliance sequencing outlined in Rule C.](#)

**Stormwater Management Plan-** A plan for the permanent management and control of runoff prepared and implemented in accordance with the standards set forth in these Rules.

**Stormwater Pollution Prevention Plan (SWPPP)-** A document which describes the best management practices and activities to be implemented by a permittee to identify sources of pollution or contamination at a site and the actions to eliminate or reduce pollutant discharges to stormwater, stormwater conveyance systems, and/or waterbodies to the maximum extent practicable.

**Stream-** [A body of water continuously or intermittently flowing in a channel or watercourse, as a river, rivulet, or brook.](#)

**Structure-** Anything manufactured, constructed, or erected which is normally attached to or positioned on land, including: portable structures, earthen structures, roads, water and storage systems, drainage facilities, and parking lots.



**Subdivision or Subdivide-** The separation of an area, parcel, or tract of land under single ownership into two or more parcels, tracts, or lots.

**Wastewater-** Any water or other liquid, other than uncontaminated stormwater, discharged from a facility.

**Water Basin-** An enclosed natural or created depression with definable banks capable of containing water that may be partly filled with public waters.

**Waterbody-** All water basins, watercourses, and wetlands as defined in these Rules.

**Watercourse-** A natural or improved stream, river, creek, ditch, channel, culvert, drain, gully, swale, or wash in which waters flow continuously or intermittently in a defined direction.

**Watershed-** Region draining to a specific watercourse or water basin.

**Wetland-** Land transitional between terrestrial and aquatic systems as defined in Minnesota Statutes Section 103G.005, Subdivision 19.

**Wetland Conservation Act (WCA)-** Minnesota Wetland Conservation Act of 1991.

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## **Rule B: PERMIT PROCEDURAL REQUIREMENTS**

1. **APPLICATION REQUIRED-** Any person, or political subdivision undertaking an activity for which a permit is required by these Rules shall, prior to commencing work, submit to the District a permit application, engineering design data, plans, specifications, and other applicable information and exhibits as may be required by these Rules. Permit applications shall be signed by the owner or the owner's authorized agent, except for activities of a political subdivision which may be signed by either an authorized agent and submitted online via the District's website.
2. **FORMS.** Permit applications must be submitted via the form provided by the District. Applicants may obtain and submit these forms online at the District's website: [www.rwmwd.org](http://www.rwmwd.org).
3. **TIME FOR APPLICATION.** A complete permit application which includes all required exhibits shall be received by the District at least 21 calendar days prior to a regularly scheduled meeting date of the Board of Managers. Late submittals or submittals with incomplete exhibits will be scheduled to a subsequent meeting date.
4. **ACTION BY BOARD.** The Board of Managers shall approve or deny an application containing all required information, exhibits and fees, in accordance with Minnesota Statutes, Section 15.99, as amended. Conditional approval may be granted to applications with administrative and/or minor plan edits required. Application approval or conditional approval does not authorize work or regulated activity until the permit is issued. An exception to Manager approval may be made for single-lot residential permit applications not requesting a variance.

5. **ISSUANCE OF PERMITS.** The ~~Board of Managers~~ District shall issue a permit only after the applicant has satisfied all requirements for the permit, has paid all—required District fees, and the District has received any required surety. All activity under the permit shall be done in accordance with the approved plans and specifications unless modifications are approved by the District ~~staff~~ as stated in Rule B.8 Modifications.
6. **COMPLIANCE.** Issuance of a permit based on plans, specifications, or other data shall not prevent the District from thereafter requiring the correction of errors in the approved plans, specifications, and data, or from preventing any activity in violation of these Rules.
7. **EXPIRATION.** A permit shall expire ~~if the and become null and void if the approved-permitted~~ activity is not commenced within one year from date of approval by the Board, or if the ~~approved-permitted~~ activity is suspended or abandoned for a period of one year; from the date the activity originally commenced. Before ~~an~~ activity ~~delayed for one year or more on an expired permit~~ can recommence, ~~the permit must be renewed~~ a new permit application may be required with the associated permit fees, unless alternate arrangements are approved by the District. The Board shall consider the new application on the basis of the Rules in effect on the date the application is received. An application for renewal of a permit must be in writing, and state the reasons for the renewal. Any plan changes and required fees must be included with the renewal request. There must be no unpaid fees or other outstanding violations of the permit being renewed. The Board shall consider the request for renewal on the basis of the Rules in effect on the date the application request is being considered for renewal.
8. **EXTENSION.** ~~Any~~ permittee may apply for an extension of time to complete any remaining conditions or commence the approved activity under an unexpired permit application when the permittee is unable to commence the activity within a year from the date of approval as outlined the time required by these Rules. ~~An application request~~ for an extension of a permit approval must be in writing and state the reasons for the extension. Any plan changes and required fees must be included with the extension request. There must be no unpaid fees or other outstanding violations of the permit approval being extended. The ~~application request~~ must be received by the District at least 30 days prior to the permit-~~approval~~'s expiration. The Board shall consider the ~~application request~~ for an extension on the basis of the Rules in effect on the date the application is being considered. The Board may extend the time for commencing the approved activity for a period not exceeding one year upon finding that circumstances beyond the control of the permittee have prevented action from being taken.
9. **MODIFICATIONS.** The permittee shall not modify the approved activity or deviate from the plans and specifications on file with the District without the prior approval of the District ~~staff~~. Significant modifications may require Board approval.
10. **INSPECTION AND MONITORING.** After issuance of a permit, the District may perform such field inspections and monitoring of the approved activity as the District deems necessary to determine compliance with the conditions of the permit and these Rules. Any portion of the activity not in compliance shall be

promptly corrected. In applying for a permit, the applicant consents to the District's entry upon the land for field inspections and monitoring, or for performing any work necessary to bring the activity into compliance at the permittee's expense.

**11. SUSPENSION OR REVOCATION.** The District may suspend or revoke a permit issued under these Rules wherever ~~such approval or issuance is the permit is issued in error or~~ based on incorrect information supplied, or in violation of any provision of these Rules, or if the preliminary and final subdivision approval received from a municipality or county is not consistent with the conditions of the permit.

**12. CERTIFICATION OF COMPLETION.** The District shall certify completion of an activity for which a permit has been issued under these Rules and authorize the release of any required surety upon inspection and submittal of information verifying completion of the activity in accordance with the approved plans and conditions of the permit. Verification of stormwater practice functionality such as a flood test or other in-field test or observation shall be conducted in the presence of District staff or other authorized third party or documented in a report submitted to the District before completion can be certified and any surety released. Copies of documents, with evidence of recording where appropriate, that provide for maintenance of structures required by the permit shall be filed with the District before completion can be certified and any surety released. All temporary erosion prevention and sediment control BMPs must be removed following approval of a Certificate of Completion before any surety can be released. No activity may be certified as complete if there are any unpaid fees or other outstanding permit violations. If the District fails to make a determination as to compliance of an activity with the conditions of the permit within 60 days after submittal of the foregoing information verifying completion, the activity shall be deemed complete and any surety shall thereupon be released, unless seasonal conditions prohibit verification of stormwater practice functionality.

**13. PERMIT TRANSFERS.** The District may allow the transfer of a permit. No permit shall be transferred if there are any unpaid fees or other outstanding permit violations. Transfer of a permit does not alter the requirements of the permit or extend the permit term. In the event that a permit is transferred, the original permittee shall remain liable for the permit requirements unless (1) the transferee and transferor submit a Permit Transfer Form to the District or (2) the District approves a new permit for the transferee.

**14. PERMIT PROCESSING FEES.** The District shall charge the permit processing fees in accordance with a schedule adopted by written resolution of the Board of Managers and conforming to Minnesota Statutes 103D.345.

- (a) Applicant must submit the required permit processing fee to the District at the time it submits its permit application.
- (b) The processing fees described above shall not be charged to the federal government, the State of Minnesota, or a political subdivision of the State of Minnesota.



- (c) Any person or political subdivision performing an activity for which a permit is required under these Rules without having first obtained a permit from the District, shall pay, in addition to such fines, court costs or other amounts as may be payable by law as a result of such violation, a field inspection fee equal to the actual cost to the District for field inspections, monitoring, and investigation of such activity, including services of engineering, legal and other consultants. The field inspection fee shall be payable within 10 calendar days after issuance of a statement by the District. No permit shall be issued for the activity if there are any unpaid field inspection fees or other outstanding violations of these Rules.

**15. PERFORMANCE SURETY.** To assure compliance with these Rules, the District will require permit applicants to post a performance surety where the District determines that it is reasonable and necessary under the particular circumstances of any permit application filed with the District. The District shall determine the amount of any performance surety in accordance with a schedule adopted by written resolution of the Board of Managers. A performance surety will not be required of the federal government, the State of Minnesota, or a political subdivision of the State of Minnesota.

**16. OTHER PERMITS AND APPROVALS.** The applicant shall promptly provide the District with copies of all environmental permits and approvals required by other governmental entities, upon request.

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## **Rule C: STORMWATER MANAGEMENT**

1. **POLICY.** It is the policy of the Board of Managers to:
  - (a) Reduce runoff rates to levels that allow for stable conveyance of flow through watersheds in the District.
  - (b) Require rate control practices on development to preserve runoff rates at a level that shall not cause the degradation of the watershed.
  - (c) Limit runoff volumes by utilizing site designs that limit impervious surfaces or incorporate volume control practices such as infiltration.
  - (d) Minimize connectivity of impervious surfaces to the stormwater system.
  - (e) Require the use of effective non-point source pollution reduction BMPs in development projects.
  - (f) Protect and maintain downstream drainage systems to provide permanent and safe conveyance of stormwater. Reduce the frequency and/or duration of potential downstream flooding.
  - (g) Reduce the total volume of stormwater runoff to protect surface water quality and provide recharge to groundwater.

(h) Remove sediment, pollutants, and nutrients from stormwater to protect surface water quality.

2. **REGULATION.** No person or political subdivision shall commence a land disturbing activity or the development of land one acre or greater, unless specifically exempted by Paragraph 5 below, without first obtaining a permit from the District that incorporates and approves a stormwater management plan for the activity or development.

3. **CRITERIA.** Stormwater management plans must comply with the following criteria:

(a) **Hydrograph Method.** A hydrograph method based on sound hydrologic theory shall be used to analyze runoff for the design or analysis of flows and water levels. Reservoir routing procedures and critical duration storm events shall be used for design of detention basins and outlets.

(b) **Runoff Rate.** Runoff rates for the proposed activity shall not exceed existing runoff rates for the 2-year, 10-year, and 100-year critical storm events using Atlas 14 precipitation depths and MSE3 storm distributions, or as approved by the District. Runoff rates may be restricted to less than the existing rates when the capacity of downstream conveyance systems is limited.

(c) **Runoff Volume.** Stormwater runoff shall be retained onsite in the amount equivalent to 1.1 inches of runoff over the new and reconstructed impervious surfaces of the development. The required stormwater runoff volume shall be calculated as follows:

**Required Stormwater Runoff Volume (ft<sup>3</sup>) = Impervious surfaces (ft<sup>2</sup>) x 1.1 (in) x 1/12 (ft/in)**

(1) For infiltration of the required stormwater runoff volume, the following requirements must be met:

(i) Infiltration volumes and facility sizes shall be calculated using the appropriate hydrologic soil group classification and design infiltration rate from the Minnesota Stormwater Manual. Select the design infiltration rate from the Minnesota Stormwater Manual based on the least permeable soil horizon within the first five feet below the bottom elevation of the proposed infiltration BMP.

(ii) The required stormwater runoff storage volume shall be provided below the invert of the low overflow outlet of the BMP.

(iii) Runoff infiltrated during a rain event will not be credited towards the volume reduction requirement.

- (iv) Volume reduction credit shall not exceed the volume of 2.5 inches over the impervious surfaces of the drainage area to the BMP or the volume provided within the BMP, whichever is less.
- (v) The applicant may complete double-ring infiltrometer testing to the requirements of ASTM D3385 or other District approved infiltration test measurements at the proposed bottom elevation of the infiltration BMP. The measured infiltration rate shall be divided by the appropriate correction factor selected from the Minnesota Stormwater Manual. This test must be completed by a licensed soil scientist or engineer.
- (vi) The infiltration area shall be capable of infiltrating all stormwater routed to the system through the uppermost soil surface or engineered media within 48 hours, for surface and subsurface BMPs. Additional flows that cannot infiltrate within the required 48 hours must be allowed to bypass the system through a stabilized discharge point.
- (vii) Infiltration areas shall be limited to the horizontal areas subject to prolonged wetting.
- (viii) Areas of permanent pools tend to lose infiltration capacity over time and shall not be accepted as an infiltration practice.
- (ix) Stormwater runoff must be pretreated to remove solids before discharging to infiltration areas to maintain the long term viability of the infiltration areas. Additional information on sizing and approaches can be found in the Minnesota Stormwater Manual.
- (x) Design and placement of infiltration BMPs shall be done in accordance with the Minnesota Stormwater Manual guidance and requirements.
- (xi) Specific site conditions may make infiltration difficult, undesirable, or impossible. Some of these conditions are listed in Table ~~2~~ 1 and may qualify the applicant for Alternative Compliance Sequencing. The applicant may also submit a request to the District for Alternative Compliance Sequencing for site conditions not listed below. All requests shall indicate the specific site conditions present and a grading plan, utility plan, and the submittal requirement listed in ~~the table below~~ Table 1.

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**Table 1. Alternative Compliance Site Conditions\***

MPCA has limitations for constructing infiltration BMPs if it will receive discharges from or be constructed in these areas of concern. These conditions will apply to this permit.\*\*

Type	Specific Site Conditions	Infiltration Requirements
Potential Contamination	Potential Stormwater Hotspots (PSHs)/Industrial Facilities	Prohibited
	Contaminated Soils	Prohibited
	Vehicle Fueling and Maintenance Areas	Prohibited
Physical Limitations	Low Permeability (Type D Soils)	Prohibited- Soil borings required
	Bedrock within 3 vertical feet of bottom of infiltration area	Prohibited- Soil borings required
	Seasonal High Groundwater within 3 vertical feet of bottom of infiltration area	Prohibited- Soil borings required
	Type A soils with infiltration rates greater than 8.3 inches per hour	Restricted without soil amendments
	Karst Areas	Prohibited- Soil borings required
Land Use Limitations	Utility Locations	Concerned- Site Map with detailed utility locations
	Adjacent Wells	Restricted- Well Locations
	<u>Bridges</u>	<u>Concerned- Site Map with detailed bridge restrictions</u>

\*Alternative Compliance is allowed for the volume reduction portion of Rule C only. Water quality requirements are still required in the form of gross pollutant removal as outlined in C

\*\*Reference the Minnesota Stormwater Manual for more information regarding the MPCA's "contamination screening checklist" and "higher level of engineering review" for infiltration within a Drinking Water Supply Management Area (DWSMA).

- (2) Stormwater reuse systems shall be allowed at an approved credit as calculated by the Stormwater Reuse Calculator found in the application guidance materials, or other approved calculator.
- (3) **Alternative Compliance Sequencing.** To the maximum extent practicable, the volume reduction ~~requirement standard~~ shall be fully met onsite. If it is not possible because of site conditions listed above, the following **Alternative Compliance** may be achieved by any combination of the sequence below but shall be explored in the order presented.
  - (i) First, the applicant shall comply or partially comply with the volume reduction ~~requirement standard~~ to the maximum extent practicable onsite through alternative volume reduction methods as listed below and in the application guidance materials or as approved by the District. If the applicant meets these requirements, the project is compliant, and no further sequencing steps are necessary.
    - If filtration of the water quality volume is deemed necessary through alternative compliance sequencing,



the “required stormwater runoff volume” shall be multiplied by 1.82 (i.e. 55% filtration credit), and the filtration BMP shall provide this storage volume below the invert of the low overflow outlet of the BMP (perforated drain pipes for filtration will not be considered the low overflow outlet).

- If filtration with iron-enhanced sand is used as a filtration media, the “required stormwater runoff volume to be infiltrated” shall be multiplied by 1.25 (i.e. 80% filtration credit), and the filtration BMP shall provide this storage volume below the invert of the low overflow outlet of the BMP (perforated drain pipes for filtration will not be considered the low overflow outlet). Iron-enhanced media shall include a minimum of 5% of iron filings by weight and shall be uniformly blended with filtration media.
  - Other enhanced filtration media may be considered and credited at the sole discretion of the District.
- (ii) Second, for the remaining volume reduction required to fully meet the standard, the applicant shall comply or partially comply with the volume reduction standard at an offsite location or through the use of qualified banking credits as determined by Rule C – 3.c. ~~4~~5.
- Volume reduction may be accomplished at another site outside of the project area or through the use of banked credits as long as it yields the same volume reduction benefit and is approved by the District prior to construction. When possible, offsite compliance and banking credits shall be achieved in the same drainage area or sub-watershed as the project site. Projects that propose to construct stormwater BMPs to achieve volume reduction credits may require District permit application, review and approval.
- (iii) Third, as a last alternative, for the remaining volume reduction required, the applicant shall pay into the District’s Stormwater Impact Fund (SIF) to cover the cost of implementing equivalent volume reduction elsewhere in the watershed. The required amount to contribute to the Stormwater Impact Fund shall be set by resolution of the Board.
- Money contributed to the Stormwater Impact Fund from a local government unit shall be spent within that local government unit’s jurisdiction to the extent possible.
  - Money contributed to the Stormwater Impact Fund shall be allocated to volume reduction projects by the District according to the Stormwater Impact Fund

Implementation Plan as approved by the District Board. The volume reduction achieved by these projects shall offset the volume reduction that was not achieved on with the permitted development.

- Linear projects proposing to meet full or partial volume reduction requirements through Stormwater Impact Fund (SIF) contribution shall be assessed at the full SIF rate for the amount of SIF contribution being requested-

(4) Regional Stormwater Treatment Facilities

- (i) For projects within the drainage area of an existing or planned future regional stormwater facility, the sequencing requirements may be waived if it has been determined by RWMWD that the benefits are equivalent or greater than an onsite treatment practice.
- (ii) Applicants must either utilize volume reduction credits or contribute to the Stormwater Impact Fund.

(5) Volume reduction provided in excess of the ~~1.1 inch requirement~~ required treatment volume may be banked for use on another project or used to compensate for under-treated drainage areas within the same project. Volume reduction credits will be calculated based on the physical volume constructed above and beyond the required treatment volume pursuant to Section C.3.c.3.i-iii 'Alternative Compliance Sequencing.' Volume reduction credit shall not exceed the volume of 2.5 inches over the impervious surfaces of the drainage area to the BMP or the volume provided within the BMP, whichever is less.

(6) Transfer of banked volume credits between applicants is allowed. Applicants shall submit a ~~letter-written request~~ to the District outlining the conditions of the transfer and confirming the volume of the transfer. The District must review and approve all credit transfers.

(7) If an applicant determines during the course of planning, design or construction of a project that the required volume reduction cannot be achieved onsite and the applicant does not possess sufficient excess volume reduction credits to offset the volume required, the District may allow the applicant to defer the construction of volume reduction BMPs to a future identified project that the applicant will complete within two years of the date of the permit application. Failure to provide the required volume reduction by that date would obligate the applicant to pay into the Stormwater Impact Fund at the rate applicable at the time payment is made into the fund, unless alternative arrangements are approved by the District. If volume reduction is deferred, rate control requirements must still be met at any given time of the project.

(d) **Water Quality.** Developments shall incorporate effective non-point source pollution reduction BMPs to achieve 90% total suspended solids (TSS) removal from the disturbed area of the project on an annual basis. Runoff

volume reduction BMPs may be considered and included in the calculations towards compliance with achieving the 90% TSS removal requirement. Water quality calculations, documentation and/or water quality modeling may be requested to verify compliance with the standard. Documentation of 90% TSS removal is not required for projects that achieve compliance through Stormwater Impact Fund contributions.

- (1) Drainage areas that directly discharge to a wetland, river, lake, or stream shall meet the water quality standard onsite, regardless of any alternative compliance being proposed for the project-
  - ~~(+)(2)~~ Costs associated with implementation of gross pollutant removal devices may not be deducted from Stormwater Impact Fund contributions and do not result in adjustments to banked volume credit withdrawals.
- (e) **Linear Projects.** Costs specific to satisfying the onsite volume reduction and water quality ~~requirements standards~~ on linear projects need not exceed a cost cap which will be set by resolution of the Board. The cap shall apply to costs directly associated with the design, testing, land acquisition, and construction of the volume reduction and water quality stormwater BMPs only. Unit costs for construction shall be used to determine the cost of the volume reduction and water quality BMPs, and must be reviewed and approved by the District. The District may contribute an amount above the cap in order to meet the volume reduction and water quality ~~requirements standards~~ or it may allow the applicant to partially comply with the standards when the cap is met. Volume constructed in excess of the required volume to meet the linear cost cap may be deposited into the District's volume reduction bank. If volume reduction is partially achieved due to the cost cap, rate control requirements must still be met at any given time of the project.
- (f) **Maintenance.** All stormwater water management structures and facilities, including volume reduction BMPs, shall be maintained to assure that the structures and facilities function as originally designed. Applicants shall submit a site-specific plan, schedule and narrative for maintenance of the proposed stormwater management BMPs. The maintenance responsibilities must be assumed by either the municipality's acceptance of the required easements dedicated to stormwater management purposes or by the applicant executing and recording a maintenance agreement acceptable to the District. Documentation of the recorded agreement must be submitted to the District prior to issuance of permit. Public developments shall require a maintenance agreement in the form of a Memorandum of Agreement or an approved Local Water Management Plan that details the methods, schedule, and responsible parties for maintenance of stormwater management facilities for permitted development. A single Memorandum of Agreement for each local government unit may be used to cover all stormwater management structures and facilities required herein, including volume reduction BMPs, within the LGU's jurisdiction.

**4. EXHIBITS.** The following exhibits must accompany the online permit application in electronic .pdf format.

- (a) Property lines and delineation of lands under ownership of the applicant.
- (b) Delineation of the drainage areas contributing runoff from off-site, proposed and existing sub-watersheds onsite, emergency overflows, and drainage ways.
- (c) Aerial photo showing the locations of water bodies downstream of the site.
- (d) Proposed and existing stormwater facilities' location, alignment, and elevation.
- (e) Delineation of existing onsite wetlands, marshes, shoreland, and floodplain areas.
- (f) Identification of existing and proposed normal, ordinary high, and 100-year water elevations onsite.
- (g) Identification of existing and proposed site contour elevations with at least a 2-foot contour interval including offsite contours where overflows are directed.
- (h) Construction plans and specifications of all proposed stormwater management facilities, including design details for outlet control structures.
- (i) Stormwater runoff volume and rate analysis for the 2-year, 10-year, and 100-year critical storm events, existing and proposed.
- (j) All hydrologic, water quality, and hydraulic computations completed to design the proposed stormwater management facilities.
- (k) Narrative addressing incorporation of stormwater BMPs, including individual BMP storage volumes and pretreatment method(s) used.
- (l) For non-linear projects, a site-specific plan, schedule, and narrative for ongoing maintenance of the proposed stormwater management BMPs.
- (m) Onsite soil borings within the footprint of the proposed stormwater BMP indicating soil type for purposes of ~~infiltration area design~~ selecting the appropriate design infiltration rates and verifying depth to seasonally high groundwater. Borings should extend a minimum 5 feet below the bottom of the proposed BMP. Number of borings should be in accordance with Minnesota Stormwater Manual recommendations.
- (n) For applications proposing infiltration area(s), information shall include identification, description (soil group and texture), redoximorphic features, and ~~field evaluation of soil permeability in accordance with ASTM 3385 procedure,~~ and delineation of site soils to determine existing and proposed conditions suitable for percolation of stormwater runoff from impervious areas. Field evaluation of soil permeability in accordance with ASTM 3385

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procedure for double ring infiltrometer testing or other approved method is encouraged.

- (o) For applications proposing alternative compliance sequencing, the required exhibits listed in Table 2.1.
- (p) All plan sheets shall be signed by a Minnesota licensed professional appropriate for the project.

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## 5. EXCEPTIONS.

- (a) Rule C and its requirements shall not apply to land disturbing activity or the development of land that creates 100% pervious surfaces post-construction, unless the land disturbing activity or the development of land alters the drainage boundaries shown in the District's Watershed Management Plan.
- (b) Rule C and its requirements shall not apply to development less than 1 acre in size for all land uses unless the development is part of a common plan of development or sale that will ultimately exceed one acre in size. An applicant applying for a new permit under a common plan of development must meet the current Rules at the time of the submittal.
- (c) Rule C and its requirements shall not apply to construction on individual lots within a residential subdivision approved by the District, provided the activity complies with the original common plan of development.
- (d) Rule C and its requirements shall not apply to bridges.
- (e) Rule C and its requirements shall not apply to annually cultivated land used for farming, research, or horticulture.
- (f) Rule C and its requirements shall not apply to routine vegetation maintenance and pavement milling/overlaying activities that do not disturb the material beneath the pavement base and shall not be considered land disturbance (see example below):

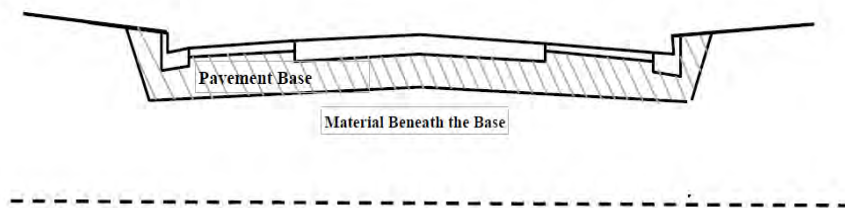
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(g) Rule C and its requirements shall not apply to ~~disconnected impervious that meets-~~  
~~that meet the District definition of disconnected impervious, and incorporate all of the~~  
~~following conditionseriteria:~~

- ~~Not running~~ Sidewalks and trails that are not parallel to, or alongside a roadway
- Maximum sidewalk or trail width of 8'
- Minimum 15' vegetated separation from any storm sewer conveyance including parking lots and ditches
- Maximum ~~2-5~~% slope
- Documented Type A or B soils conducive to infiltration

Commented [NM12]: TAC members requested the Districts revise to 10'—this is currently under consideration.

Sidewalks and trails parallel to roadways must still be included in impervious surface calculations.

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## Rule D: FLOOD CONTROL

### 1. POLICY. It is the policy of the Board of Managers to:

- (a) Encourage water quantity controls to ensure no net increase in the impacts or potential for flooding on or off the site and encourage, where practical, controls to address existing flooding problems.
- (b) Discourage floodplain filling for new non-river dependent developments.
- (c) Only allow floodplain development in a manner that is compatible with the dynamic nature of floodplains.

### 2. REGULATION. No person or political subdivision shall alter or fill land below the 100-year flood elevation of any waterbody, public water, or public water wetland without first obtaining a permit from the District.

### 3. CRITERIA.

- (a) Placement of fill within the 100-year floodplain is prohibited unless compensatory storage is provided. Compensatory storage must be provided on the development or immediately adjacent to the development within the affected floodplain.
  - (1) Compensatory storage shall result in the creation of floodplain storage to fully offset the loss of floodplain storage. Compensatory storage shall be created prior to or concurrently to the permitted floodplain filling.

- (b) All habitable buildings, roads, and underground parking structures on or adjacent to a project site shall comply with the following flood control and freeboard requirements:

(1) See Table 2 below for freeboard requirements.

<b>Table 2. Flood Control and Freeboard Requirements</b>			
<b>Condition</b>	<b>Waterbodies with Piped Outlets and Mississippi River</b>	<b>Waterbodies without Piped Outlets</b>	<b>Subsurface Stormwater Management BMPs</b>
<b>New Habitable Buildings*</b>	Low floor must be a minimum of 2 feet above the 100-year flood elevation.	Low floor must be a minimum of 5 feet above the 100-year flood elevation.	Low floor must be a minimum of 2 feet above the 100-year flood elevation or one foot above the emergency overflow elevation unless flood-proofing measures are constructed with the building.  <b>AND</b> Low opening must be a minimum of 2 feet above the 100-year flood elevation or one foot above the emergency overflow elevation.
<b>Existing Habitable Buildings- Adjacent to and Potentially Affected by Flood Waters</b>	Low opening must be a minimum of 2 feet above the 100-year flood elevation.	Low opening must be a minimum of 5 feet above the 100-year flood elevation.	Low floor must be a minimum of 2 feet above the 100-year flood elevation or one foot above the emergency overflow elevation unless flood proofing measures are constructed with the BMP.  <b>AND</b> Low opening must be a minimum of 2 feet above the 100-year flood elevation or one foot above the emergency overflow elevation.
<b>Underground Parking Structures</b>	Low opening must be a minimum of 2 feet above the 100-year flood elevation.	Low opening must be a minimum of 2 feet above the 100-year flood elevation.	Low opening must be a minimum of 2 feet above the 100-year flood elevation or one foot above the emergency overflow elevation.
<b>Public Roadway</b>	Roadway shall not flood when adjacent to stormwater storage basin designed to store the 100-year storm event. Freeboard requirement set by road authority.		

\*All utilities below the low floor of new manufactured homes must have flood-proofing if located within the 100-year floodplain

- (2) For waterbodies without a piped outlet:
    - i. The normal water level of a waterbody without a piped outlet shall be determined by a qualified licensed geologist or hydrogeologist. A groundwater analysis using existing or installed monitoring wells on or near the site and soil conditions in the basin shall be used. Ideally, the peak groundwater elevation over a continuous three-year monitoring period shall be considered the normal water level of a basin without a piped outlet, provided soil conditions allow full drainage of recent storm event within 48 hours.
    - ii. For existing waterbodies without piped outlets, mottled soils may be considered in establishing a waterbody's normal water level in lieu of groundwater analysis.
    - iii. An emergency response plan shall be developed for addressing potential flooding in homes below the overland emergency overflow swale around each waterbody without a piped outlet. The plans shall be adopted by the City and be included in a maintenance agreement for the development.
  - (3) For underground parking structures:
    - i. Underground parking structures shall be flood-protected to minimize impacts from high groundwater during flood events.
    - ii. All drainage structures within underground parking shall include an anti-backflow device to prevent stormwater from surcharging into the area.
  - (4) Emergency overflow swales or areas shall be constructed to convey the peak 100-year discharge from each waterbody to the next downstream waterbody and away from buildings.
4. **EXHIBITS.** The following exhibits must accompany the online permit application in electronic .pdf format.
- (a) Site plan showing the property lines, location, delineation of the work area, existing elevation contours of the work area, ordinary high water elevations, and 100-year flood elevation.
  - (b) Bench marks, including datum used, to establish vertical control.
  - (c) Grading plan showing any proposed elevation changes including low floor elevations of adjacent buildings and 100-year flood elevations resulting from proposed development.
  - (d) Utility plans and details.



- (e) Roadway plans and details.
- (f) Preliminary plat of any proposed land development.
- (g) Stormwater management plan showing all data and computations used in estimating runoff, drainage areas, stormwater storage, and flood elevations for the 2-year, 10-year, and 100-year storm events for both existing conditions and post development conditions. The plan shall be prepared and signed by a qualified professional engineer licensed in the State of Minnesota or a qualified hydrologist. The plan shall include a figure of receiving waterbodies downstream of the site.
- (h) Computation of change in flood storage capacity resulting from proposed grading.
- (i) Erosion control plan.
- (j) All plan sheets shall be signed by a Minnesota licensed professional appropriate for the project.

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## **Rule E: WETLAND MANAGEMENT**

1. **POLICY.** It is the policy of the Board of Managers to:
  - (a) Manage wetlands to achieve no-net loss in the quantity, quality, and biological diversity of wetlands in the District.
  - (b) Increase the quantity, quality, and biological diversity of wetlands in the District by restoring or enhancing diminished or drained wetlands.
  - (c) Avoid impacts from activities that destroy or diminish the quantity, quality, and biological diversity of District wetlands.
  - (d) Replace affected wetlands where avoidance is not feasible and prudent.
  - (e) Encourage natural vegetation around wetlands to maintain the water quality and ecological functions that wetlands provide.
2. **REGULATION.** The regulation of Rule E is as follows:
  - (a) **AUTHORITY UNDER WETLAND CONSERVATION ACT (WCA).**  
 The Wetland Conservation Act, as amended, and its implementing rules as set forth in Minnesota Rules Chapter 8420, as amended, are incorporated as part of this rule and shall govern draining, filling, excavating, and other alteration of a wetland ~~in all cases where the District is the local government unit under that Act.~~ The District intends to serve as the Local Government Unit (LGU) responsible for administering WCA, unless another LGU has elected to

assume that role within its jurisdictional area. Wetland impacts shall be governed by the Wetland Conservation Act with the following exceptions:

- (1) Sequencing flexibility shall not be allowed;
- (2) Wetland replacement, where permitted, shall be in accordance with the following prioritization for the location of the replacement wetland (both constructed and banked):
  - (i) Onsite replacement is most preferred;
  - (ii) Within the same subwatershed;
  - (iii) Within the District;
  - (iv) Outside of the District is the least preferred.

- (3) Permanently impacted wetlands shall be replaced through creation of new wetland, restoration of drained wetlands, or expansion of existing wetlands of the same type (Circular 39) at a minimum 2:1 ratio.

Commented [NS13]: Not a change in implementation; added for clarification.

- (b) **AUTHORITY UNDER WATERSHED LAW.** The criterion below relates to wetland buffers and water quality and is adopted under the District's watershed authority and applies whether or not the District is the Wetland Conservation Act local government unit (LGU) in the municipality where the wetland is located. ~~No person or political subdivision shall commence a land-disturbing activity or development of land one acre or greater adjacent to a waterbody, unless specifically exempted by Paragraph 5 below, without first obtaining a permit from the District.~~

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### 3. CRITERIA.

- (a) All stormwater must be treated to the water quality standard outlined in Rule C.d.~~3.1~~ before discharged to a wetland, regardless of any alternative compliance relevant to the project.
- (b) Wetland delineations and other LGU decisions shall be completed and submitted to the District on existing wetlands on the entire parcel for development.
  - (1) Data sheets shall be submitted with detailed information on field indicators (soils, hydrology, and vegetation) and a summary report.
  - (2) Wetland delineations shall be performed and submitted for review during the normal growing season for this area of the State (May 1 – October 15). Delineations performed outside of this time frame may or may not be permitted by the District. Review and approval shall be dependent on potential wetland impact in relation to the entire

development or project. This decision is at the sole discretion of the District.

- (3) Wetland boundaries shall be staked in the field for review and approval.
  - (4) Wetland delineations shall remain valid for five years from District approval. Field verification may be required after the initial approval and within those five years.
- (c) Most wetlands in the District have been classified using MnRAM 3.4 and are identified in the District's Watershed Management Plan. The classifications are used for management of wetlands in the District and to establish required buffer widths. If a MnRAM assessment has not been completed for a wetland, the most stringent classification shall be assumed (Manage A). The following steps shall be followed for challenging of a wetland classification:
- (1) The wetland shall be assessed by a qualified wetland specialist using MnRAM version 3.4 or current version and between the dates of May 1 and October 15.
  - (2) MnRAM 3.4 or current version data completed by the applicant and narrative justification for classification change shall be submitted.
  - (3) District staff shall review the data and justification and provide a recommendation to the Board of Managers.
  - (4) The District Board of Managers shall approve or deny the classification change request.
- (d) Wetland buffers shall be required for all developments adjacent to a wetland whether or not the wetland is located on the same parcel as the proposed development.
- (1) Table 4 outlines the classifications of wetlands and the corresponding no-disturb buffer widths and minimums that must be met:

Table 3. Wetland Buffer Widths			
Wetland Classification	Manage A	Manage B	Manage C
Average Buffer Width	75 feet	50 feet	25 feet
Minimum Buffer Width	37.5 feet	25 feet	12.5 feet

- (2) New and existing ponds constructed for water quantity and quality adjacent to new development shall maintain a 10-foot vegetative buffer from the normal water level.

- (3) Stormwater management BMPs shall not be allowed to be constructed in the buffer area.
- (4) Wetland replacement through mitigation shall be allowed in the buffer area provided mitigation of buffer disturbance is also provided adjacent to wetland replacement. Mitigation wetlands are deemed Manage A with associated required buffer widths.
- (5) A permanent wetland buffer monument shall be installed at each lot line where it crosses a wetland buffer, and where needed to indicate the contour of the buffer, with a maximum spacing of two hundred (200) feet of wetland edge.
- (6) Where acceptable vegetation exists in buffer areas, the retention of such vegetation in an undisturbed state is required unless an applicant receives approval by the District to replace such vegetation. A buffer strip has acceptable vegetation if it:
  - (i) Has a continuous, dense layer of vegetation or overstory of trees and/or shrubs that have been uncultivated or unbroken for at least five consecutive years, or
  - (ii) Is not composed of undesirable plant species (including, but not limited to: reed canary grass, common buckthorn, purple loosestrife, leafy spurge, and noxious weeds), or
  - (iii) Does not have topography that tends to channelize the flow of surface runoff.
- (7) If the District determines the existing buffer to be unacceptable, the applicant shall maintain the minimum buffer in its undisturbed state but may disturb the remainder of the buffer area as long as the buffer area is re-planted with native species and maintained as a native habitat. The buffer planting must be identified on the permit application and the buffer landscaping shall comply with the following standards:
  - (i) Buffer areas shall be planted with a native seed mix approved by the District, with the exception of a one-time planting with an annual nurse or cover crop such as oats or rye for the purposes of temporary erosion control.
  - (ii) The revegetation project shall be performed by a qualified contractor. All methods shall be approved by the District prior to planting or seeding.



- (iii) The seed mix shall be broadcast according to the specifications of the selected mix including date of application. The annual nurse or cover crop shall be applied at a minimum rate of 30 pounds per acre. The seed mix selected for permanent cover shall be appropriate for soil site conditions and yellow tag certified free of invasive species.
- (iv) Native shrubs may be allowed to be substituted for native forbs. All substitutions shall be approved by the District. Such shrubs may be bare root seedlings and shall be planted at eight foot spacing. Shrubs shall be distributed so as to provide a natural appearance and shall not be planted in rows.
- (v) Any groundcover or shrub plantings installed within the buffer area are independent of any landscaping requirements required elsewhere by the municipality or county.
- (vi) Compacted soils in the buffer area shall be loosened to a depth of at least 5" prior to seeding.
- (vii) No fertilizer shall be used in establishing new buffer areas, except on highly disturbed sites when necessary to establish acceptable buffer vegetation and then limited to amounts indicated by an accredited soil testing laboratory.
- (viii) All seeded areas shall be mulched or blanketed immediately in a method approved by the District.
- (ix) Buffer areas (both natural and created) shall be protected by erosion and sediment control measures during construction in accordance with these Rules. The erosion and sediment control measures shall remain in place until the vegetation is established.
- (x) Buffer vegetation shall be actively managed throughout the three-year establishment period. This includes but is not limited to: mowing, overseeding, spot weed control, prescribed burning, and watering.
- (xi) Buffer vegetation shall be established and maintained in accordance with the requirements above. During the first three full growing seasons, the applicant or developer must replant any buffer vegetation that does not survive. The applicant or developer shall specify a method acceptable to the

District for monitoring compliance and verifying establishment of the buffer at the end of the third full growing season.

**4. EXHIBITS.** The following exhibits must accompany the online permit application in electronic .pdf format.

- (a) Site plan showing:
  - (1) Property lines, corners, and delineation of lands under ownership of the applicant.
  - (2) Existing and proposed elevation contours with at least a 2-foot contour interval, including the existing run out elevation and flow capacity of the wetland outlet, and spoil disposal areas. Some circumstances may require a 1-foot contour interval.
  - (3) Area of the wetland portion to be filled, drained, excavated, or otherwise altered.
- (b) Complete delineation of the existing wetland(s), supported by the following documentation:
  - (1) Identification of the delineation method used in accordance with the 1987 Army Corps of Engineers Manual.
  - (2) Identification of presence or absence of normal circumstances or problem conditions.
  - (3) Basin classification using the Cowardin method and Circular 39.
  - (4) Wetland data sheets, or a report, for each sample site, referenced to the location shown on the delineation map. In each data sheet/report, the applicant must provide the reasoning for satisfying, or not satisfying, each of the technical criteria and why the area is or is not a wetland.
  - (5) A delineation map showing the size, locations, configuration, and boundaries of wetlands in relation to identifiable physical characteristics, such as: roads, fence lines, waterways, or other identifiable features.
  - (6) The location of all sample sites and stakes/flags must be accurately shown on the delineation map. Delineations submitted by applicants shall normally be field-verified by District staff.
- (c) A replacement plan, if required, outlining the steps followed for the sequencing process and including documentation supporting the proposed mitigation plan.

~~(d) A wetland functions and values assessment comparison before and after the project.~~

(d) Buffer vegetation management and monitoring plans if necessary.

(e) An Erosion Control Plan.

(e) GIS shapefile of the delineation and/or proposed mitigation areas, if applicable.

5. **EXCEPTIONS.** Rule E and its requirements shall not apply to annually cultivated land used for farming, research, or horticulture, unless the activity results in draining or filling the wetland.

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## Rule F: EROSION AND SEDIMENT CONTROL

1. **POLICY.** It is the policy of the Board of Managers to require the preparation and implementation of erosion and sediment control plans to control the export of sediment off site, which impacts surface water quality.
2. **REGULATION.** No person or political subdivision shall commence a land disturbing activity of the development of land one acre or greater, unless specifically exempted by this Rule, without first obtaining a permit from the District that incorporates and approves an erosion and sediment control plan for the activity or development.
3. **CRITERIA.** Erosion and sediment control plans shall comply with the following criteria:
  - (a) Erosion and sediment control measures shall be consistent with best management practices, and shall be sufficient to retain sediment onsite as demonstrated in the Minnesota Stormwater Manual.
  - (b) Erosion and sediment control measures shall meet the ~~requirements standards~~ for the General Permit Authorization to Discharge Storm Water Associated With Construction Activity Under the National Pollutant Discharge Elimination System/State Disposal System Permit Program, Permit MN R100001 (NPDES General Construction Permit), issued by the Minnesota Pollution Control Agency, except where more specific requirements are required.
  - (c) The activity shall be phased when possible to minimize disturbed areas subject to erosion at any one time.
  - (d) All construction site waste, such as discarded building materials, concrete washout, pavement or masonry cutting slurry, chemicals, litter, and sanitary and hazardous waste at the construction site shall be properly managed and disposed of so they shall not have an adverse impact on soil or water quality.

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- (e) All turbid or sediment-laden waters related to dewatering must be discharged to a temporary sediment basin on the project site unless infeasible. Permittees must provide appropriate Best Management Practices (BMPs) to water discharged to a surface water such that the discharge does not adversely affect the receiving water or downstream properties. Permittees must continuously monitor discharge to any surface water to ensure adequate treatment has been achieved. Discharge points must be adequately protected from erosion and scour through accepted energy dissipation methods.
- (f) Use of temporary sediment basins are required where 10 or more acres of disturbed soil drain to a common location, or where 5 or more acres of disturbed soil are located within one mile of and discharge to a special or impaired water. Basin design and construction must comply with NPDES General Permit requirements.
- (g) Erosion and sediment controls required at the beginning of the project shall be installed before commencing the land disturbing activity, and shall not be removed without District approval. Applicants may phase installation of erosion and sediment controls provided the phasing plan is included in the approved erosion and sediment control plan.
- (h) The permittee shall be responsible for proper operation and maintenance of all erosion and sediment controls, and soil stabilization measures, in conformance with the requirements of the NPDES General Construction Permit. The permittee is responsible for the operation and maintenance of temporary erosion prevention and sediment control BMPs at the site over all of the areas of the site that have not been fully stabilized until the District has transferred the permit to another permittee, or until the site has undergone final stabilization as reviewed and approved by the District.

**4. EXHIBITS.** The following exhibits must accompany the online permit application in electronic .pdf format.

- (a) An existing and proposed topographic map which clearly shows contour elevations with at least 2-foot contour intervals on and adjacent to the land, property lines, all hydrologic features, the proposed land disturbing activities, and the locations of all runoff, erosion and sediment controls, and soil stabilization measures.
- (b) Plans and specifications for all proposed runoff, erosion and sediment controls, and temporary and permanent soil stabilization measures.
  - (1) Temporary erosion and sediment control measures, which shall remain in place until permanent vegetation is in place, shall be identified.
  - (2) Permanent erosion and sediment control measures such as emergency overflow swales shall be identified.



- (c) Detailed schedules for implementation of the land disturbing activity, the erosion and sediment controls, and soil stabilization measures.
- (d) Plans and specifications for dewatering methods and outlet of stormwater.
- (e) Plans and specifications for management and containment of all solid and liquid wastes, including hazardous wastes and concrete materials.
- (f) Plans, specifications, and maintenance thresholds for temporary sediment basins if required by the permit.
- (g) Detailed description of the methods to be employed for monitoring, maintaining, and removing the erosion and sediment controls, and soil stabilization measures. The name, address, and phone number of the person(s) responsible shall also be provided.
- (h) For projects over one acre of disturbed area, documentation that the project applicant has applied for a NPDES General Construction Permit shall be submitted as well as the Stormwater Pollution Prevention Plan (SWPPP) prepared for the NPDES permit.

## 5. EXCEPTIONS.

- (a) Rule F and its requirements shall not apply to development less than 1 acre in size for all land uses, unless such development is greater than 1,000 square feet and:
  - (1) Is within the 100-year floodplain; or
  - (2) Is adjacent to a public water wetland, public water or wetland.
- (b) Rule F and its requirements shall not apply to annually cultivated land used for farming, research, or horticulture.

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## Rule G: ILLICIT DISCHARGE AND CONNECTION

- 1. **POLICY.** It is the policy of the Board of Managers to:
  - (a) Regulate the contribution of pollutants to the District's municipal separate storm sewer system (MS4) by any user;
  - (b) Prohibit Illicit Connections and Discharges to the District's MS4;
  - (c) Establish legal authority to carry out all inspection, surveillance, and monitoring procedures necessary to ensure compliance with this Rule;
  - (d) Require a District permit for new direct connections, changes to existing hydrology, and other impacts related to the proper function, access, and maintenance to the District's MS4 or easements; and

- (e) Prohibit new direct connections or other impacts to the Beltline Interceptor or other components of the District's MS4 if the connection shall cause or exacerbate water conveyance or structural problems in the system, including but not limited to surcharging and flooding.

2. **REGULATION.** This Rule shall apply to all water entering the storm drain system of the District's MS4 generated on any developed and undeveloped lands unless explicitly exempted by the District. A permit and stormwater management plan are required under this rule for new direct connections, replacement of existing connections, changes to existing hydrology, or other impacts to the Beltline Interceptor, or other components of the District's MS4, or its easements.

3. **CRITERIA.**

(a) **Connection to the District's MS4 System.**

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- (1) New direct connections and replacement of existing connections shall be completed using a method that is approved by the District.
- (2) Peak flow rate, the total volume of flow, and the timing of the flow for new connections must be managed to not cause new water conveyance problems or exacerbate existing water conveyance problems in the Beltline Interceptor. Enlargement of existing connections is considered a new connection.

(b) **Discharge Prohibitions.**

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- (1) **Prohibition of Illegal Discharges.** No person shall discharge or cause to be discharged into the municipal storm drain system or watercourses any materials, including but not limited to pollutants that cause or contribute to a violation of applicable water quality standards, other than stormwater.

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- (2) **Prohibition of Illicit Connections.** The construction, use, maintenance, or continued existence of illicit connections to the storm drain system without a District permit is prohibited.

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- (i) This prohibition expressly includes, without limitation, illicit connections made in the past, regardless of whether the connection was permissible under law or practices applicable or prevailing at the time of connection.
- (ii) A person is considered to be in violation of this Rule if the person connects a line conveying sewage to the District's MS4, or allows such a connection to continue.

(c) **Suspension of MS4 Access.**

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(1) **Suspension due to Illicit Discharges in Emergency Situations.** The District may, without prior notice, suspend MS4 discharge access when such suspension is necessary to stop an actual or threatened discharge which presents or may present imminent and substantial danger to the environment, or to the health or welfare of persons, or to the District's MS4 or Waters of the United States. If the violator fails to comply with a suspension order issued in an emergency, the District may take such steps as deemed necessary to prevent or minimize damage to the District's MS4 or Waters of the United States, or to minimize danger to persons or the environment.

(2) **Suspension due to the Detection of Illicit Discharge.** Any person discharging to the District's MS4 in violation of this Rule may have their MS4 access terminated if such termination would abate or reduce an illicit discharge. The District shall notify a violator of the proposed termination of its MS4 access. The violator may petition the District for a reconsideration and hearing. A person commits an offense subject to enforcement if the person reinstates MS4 access to facilities terminated pursuant to this Section, without the prior approval of the District.

(d) **Monitoring of Discharges.**

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(1) **Applicability.** This section applies to all facilities that have stormwater discharges associated with industrial activity, including construction activity.

(2) **Access to Facilities.**

- (i) The District shall be permitted to enter and inspect facilities subject to regulation under this Rule as often as may be necessary to determine compliance with this Rule. The discharger shall make the necessary arrangements to allow access to representatives of the District.
- (ii) Facility operators shall allow the District ready access to all parts of the premises for the purposes of inspection, sampling, examination, and copying of records that must be kept under the conditions of an NPDES permit to discharge stormwater, and the performance of any additional duties as defined by state and federal law.
- (iii) If the District has been refused access to any part of the premises from which stormwater is discharged, the District may seek issuance of a search warrant from any court of competent jurisdiction.

(e) **Requirement to Prevent, Control, and Reduce Stormwater Pollutants by the Use of BMPs.** The owner or operator of a commercial or industrial establishment shall provide, at their own expense, reasonable protection from accidental discharge of prohibited materials or other wastes into the

municipal storm drain system or watercourses by these structural and non-structural BMPs. Any person responsible for a property or premise, which is, or may be, the source of an illicit discharge, may be required by the District to implement, at said person's expense, additional structural and non-structural BMPs to prevent the further discharge of pollutants to the municipal separate storm sewer system.

- (f) **Watercourse Protection.** Every person owning property through which a watercourse passes shall keep and maintain that part of the watercourse within the property free of trash, debris, and other obstacles that would pollute, contaminate, or significantly retard the flow of water through the watercourse. In addition, the owner or lessee shall maintain existing privately owned structures within or adjacent to a watercourse, so that such structures shall not become a hazard to the use, function, or physical integrity of the watercourse.
- (g) **Notification of Spills.** Notwithstanding other requirements of law, as soon as any person responsible for a facility or operation, or responsible for emergency response for a facility or operation has information of any known or suspected release of materials which result or may result in illegal discharges or pollutants discharging into stormwater, the storm drain system, or water of the U.S., said person shall take all necessary steps to ensure the containment and cleanup of such release. In the event of such a release of hazardous materials, said person shall immediately notify emergency response agencies of the release. In the event of a release of non-hazardous materials, said person shall notify the District in person or by phone or facsimile no later than the next business day following discovery of the release.
- (h) **Enforcement.**
  - (1) **Notice of Violation.** Whenever the District finds that a person has violated a prohibition or failed to meet a requirement of this Rule, the District may order compliance by written notice of violation to the responsible person. Such notice may require without limitation:
    - (i) The performance of monitoring, analyses, and reporting;
    - (ii) The elimination of illicit connections or discharges;
    - (iii) That violating discharges, practices, or operations shall cease and desist;
    - (iv) The abatement or remediation of stormwater pollution or contamination hazards and the restoration of any affected property;
    - (v) Payment of a fine to cover administrative and remediation costs; and/or

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- (vi) The implementation of source control or treatment BMPs.
- (2) **Abatement.** If abatement of a violation and/or restoration of affected property is required, the notice shall set forth a deadline within which such remediation or restoration must be completed. Said notice shall further advise that, should the violator fail to remediate or restore within the established deadline, the work shall be done by a designated governmental agency or a contractor and the expense thereof shall be charged to the violator.
- (3) **Appeal of Notice of Violation.** Any person receiving a Notice of Violation may appeal the determination of the District. The notice of appeal must be received within 5 days from the date of the Notice of Violation. Hearing on the appeal before the District Board of Managers shall take place within 15 days from the date of receipt of the notice of appeal. The decision of the District shall be final.
- (4) **Enforcement Measures after Appeal.** If the violation has not been corrected pursuant to the requirements set forth in the Notice of Violation, or, in the event of an appeal, within 3 days of the decision of the District Board of Managers, then representatives of the District are authorized to take any and all measures necessary to abate the violation and/or restore the property. It shall be unlawful for any person, owner, agent or person in possession of any premises to refuse to allow the District or its agents to enter upon the premises for the purposes set forth above.
- (5) **Cost of Abatement.** The District may assess costs for abatement. Within 30 days after abatement of the violation, the District shall notify the property owner of the cost of abatement, including administrative costs. The property owner may file a written protest objecting to the amount of the assessment within 10 days. If the amount due is not paid within a timely manner as determined by the decision of the municipal authority or by the expiration of the time in which to file an appeal, the charges shall become a special assessment against the property and shall constitute a lien on the property for the amount of the assessment.
- (6) **Injunctive Relief.** It shall be unlawful for any person to violate any provision or fail to comply with any of the requirements of this Rule. If a person has violated or continues to violate the provisions of this Rule, the District may petition for a preliminary or permanent injunction restraining the person from activities which would create further violations or compelling the person to perform abatement or remediation of the violation.
- (7) **Violations Deemed a Public Nuisance.** In addition to the enforcement processes and penalties provided, any condition caused or permitted to exist in violation of any of the provisions of this Rule is a threat to public health, safety, and welfare, and is declared and deemed a

nuisance, and may be summarily abated or restored at the violator's expense, and/or a civil action to abate, enjoin, or otherwise compel the cessation of such nuisance may be taken.

- (8) **Relation to Other Rules.** None of the enforcement provisions of this Rule shall abridge or alter the right of the District to seek remedies provided for under Rule H herein.

4. **EXHIBITS.** The following exhibits must accompany the online permit application in electronic .pdf format.

- (a) Property lines and delineation of lands identifying ownership and easements.
- (b) Proposed and existing stormwater facilities' location, alignment and elevation.
- (c) Identification of existing and proposed site contour elevations with at least a 2-foot contour interval.
- (d) Construction plans and specifications of the proposed connection, including design details, connection method, and timing of connection.
- (e) Stormwater runoff volume and rate analysis for the 2-, 10-, and 100-year critical events, existing and proposed conditions.
- (f) Narrative addressing incorporation of stormwater BMPs as otherwise applicable under Rule C-
- (g) On-site soil boring indicating soil type.
- (h) Construction dewatering plan and construction water control and treatment plan.

5. **EXCEPTIONS.**

- (a) The following discharges are exempt from discharge prohibitions established by this Rule: water line flushing or other potable water sources, landscape irrigation or lawn watering, diverted stream flows, rising groundwater, groundwater infiltration to storm drains, uncontaminated pumped groundwater, foundation or footing drains (not including active groundwater dewatering systems), crawl space pumps, air conditioning condensation, springs, non-commercial washing of vehicles, natural riparian habitat or wetland flows, swimming pools (if dechlorinated - typically less than one PPM chlorine), street wash water, fire fighting activities, and any other water source not containing Pollutants.
- (b) Discharges specified in writing by the District as being necessary to protect public health and safety.

- (c) Dye testing is an allowable discharge but requires a verbal notification to the District prior to the time of the test.
- (d) Any non-stormwater discharge permitted under an NPDES permit, waiver, or waste discharge order issued to the discharger and administered under the authority of the Federal Environmental Protection Agency, provided that the discharger is in full compliance with all requirements of the permit, waiver, or order and other applicable laws and regulations, and provided that written approval has been granted for any discharge to the storm drain system.

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## **Rule H: ENFORCEMENT**

1. **MISDEMEANOR.** A violation of these Rules, an order, or stipulation agreement made, or a permit issued by the District is a misdemeanor subject to penalties as provided by Minnesota law.
2. **METHOD OF ENFORCEMENT.** The District may exercise all powers conferred upon it by Minnesota Statutes Chapter 103D. A rule, order, or stipulation agreement made or a permit issued by the District may be enforced by criminal prosecution, injunction, action to compel performance, restoration, abatement, and other appropriate action.
3. **PERMIT REQUIREMENT.** Pursuant to the terms of the permit, the District may issue a cease and desist order when it finds that a proposed or initiated activity or project presents a serious threat of soil erosion, sedimentation, or an adverse effect upon water quality or quantity, or violates any rule of the District.
4. **ATTORNEY FEES AND COSTS.** In any civil action arising from or related to these Rules, an order or stipulation agreement made or a permit issued or denied by the District, the court may award the District reasonable attorney fees and costs.
5. **ILLICIT DISCHARGE.** In addition to the remedies provided for in this Rule, the enforcement of Rule G shall be governed by Rule G(3)(h).

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## **Rule I: VARIANCES**

1. **WHEN AUTHORIZED.** The Board of Managers shall have the power to grant variances from these Rules where they find that extraordinary and unnecessary hardships may result from strict compliance with these Rules; provided that such variances shall not have the effect of nullifying the intent and purpose of these Rules and the overall plan of the District as adopted.
2. **PROCEDURE.**
  - (a) A written request for a variance shall be submitted to the District at least 12 calendar days prior to a regularly scheduled meeting date of the Board of

Managers stating the exceptional conditions and the peculiar difficulties claimed.

- (b) The request shall be referred to the Board and they shall review the request within 30 days of the date the request was filed with the District.
- (c) In considering requests for variances, the Board shall consider the effect of the proposed variance upon the entire District and the anticipated effect of the proposed variance upon the overall plan of the District as adopted.
- (d) If the Board determines that the special conditions which apply to the structure or land in question are peculiar to such property, and do not apply generally to other land or structures in the District and that the granting of a variance shall not in any way impair or be contrary to the intent of these Rules and the overall plan of the District as adopted, the Board may grant such variances and impose conditions and safeguards to ensure compliance with these Rules and to protect adjacent property.
- (e) Variances may be denied by Motion of the Board and such Motion shall constitute a finding and determination that the conditions required for approval do not exist. No application for a variance which has been denied wholly or in part shall be resubmitted for a period of six months from the date of said denial, except on grounds of new evidence or proof of change of conditions found to be valid by the District.

- 3. **TERM.** The term of a variance shall be concurrent with the associated permit.
- 4. **VIOLATION.** A violation of any condition set forth in a variance shall be a violation of the District rules and shall automatically terminate the variance.

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#### **Rule J: SEVERABILITY**

If any provision of these Rules is adjudged unconstitutional or invalid by a court of competent jurisdiction, the remainder of these Rules shall not be affected thereby.



TAC Comments- Informal Distribution (2/8/23-3/8/23)  
CRWD/RWMWD response 5/12/23

Comments/Questions (summarized)	Response
<p><b>Stantec:</b> Regarding redoximorphic features in Rule C.4.n: Provide clarification on what would be required to be submitted by the applicant. Redox features are not typically seen on soil borings/geotechnical evaluations, however calling out redox features is a good idea given issues experienced on sites with high groundwater.</p>	<p>Provide redox information in geotech report. Purpose to determine elevation of seasonally saturated soil, consistent with the NPDES permit requirements. WDs will reach out to common geotech firms to ensure info is collected as part of regular practice.</p>
<p><b>St. Paul Sewer &amp; Utility:</b> Bridges are unique locations with many impediments, including extreme grade separation, bedrock, earth retaining structures, foundations, etc. It is difficult to manage drainage on bridge approaches and immediately adjacent streets. It is possible that alternative compliance will be pursued more often than not –in which case, the proposed rule requirement may not be appropriate. Perhaps there is state guidance available that would better inform all parties. Some bridges cross over water bodies where precipitation would result in instantaneous runoff in the natural state. Other bridges occur over street impervious area where stormwater management is already required, so might be double counted. Bridges may extend outside of the jurisdictional boundary of a watershed district. MnDOT does not generally promote stormwater infiltration adjacent to bridge piers, walls, embankments, etc. The impervious surface and runoff definition does not seem to align with elevated bridges. Request that bridge decks continue to be exempt from Rule C.</p>	<p>The bridge exemption will remain in both CRWD and RWMWD Rules.</p>
<p><b>St. Paul Sewer &amp; Utility:</b> Will banking credits above the linear cost cap be allowed? Clarification requested.</p>	<p>Yes, see subsequent sections. Storage volume can be banked above and beyond the volume provided under the cost cap.</p>
<p><b>St. Paul Sewer &amp; Utility:</b> Will applicants be required to meet new rules for entire common plans of development (i.e. already completed portions), or just the new portions being proposed for development/redevelopment?</p>	<p>No retroactive treatment is needed on previously developed parcels that are not proposed to be disturbed —just the new proposed portion at the time of development/redevelopment.</p>
<p><b>St. Paul Sewer &amp; Utility:</b> Regarding the disconnected impervious definition: There is a newer concept related to non-motorized roadways at the Ford site –this rule may apply.</p>	<p>In a previous draft, specific metrics that would apply to the definition were included but removed prior to distribution to mirror the newly proposed NPDES permit by the MPCA. Specific parameters for impervious disconnection have been added back in and are confirmed to not be at odds with the current draft</p>

	NPDES permit.
<b>St. Paul Sewer &amp; Utility:</b> Regarding the impervious surface definition: Swimming pools are usually plumbed to sanitary sewer systems. Precipitation falling on pools should not generate stormwater runoff or therefore be considered impervious area.	Swimming pools will be removed from the list of examples to avoid confusion.
<b>St. Paul Sewer &amp; Utility (to CRWD):</b> Regarding enhanced filtration media: There was previous concern with the volume requirement regarding flow-paced enhanced filtration devices. Has this been resolved? Does CRWD consider the price per cubic foot of treatment when reviewing enhanced filtration media and crediting amount?	Yes, this has been resolved by requiring upstream volume capacity for filtration devices. Cost per cubic foot is not generally factored in, unless treatment provided under the linear cost cap is inefficiently provided.
<b>St. Paul Sewer &amp; Utility:</b> How does the full Stormwater Impact Fund rate relate to the linear cost cap?	<p>The linear cost cap would not apply in cases where compliance is achieved only through SIF contribution.</p> <p>Onsite treatment is incentivized by having a lower cost cap value than SIF.</p> <p>If a project partially achieves the requirement onsite without meeting the cost cap, and no other viable alternatives exist to provide additional treatment, a contribution to the SIF will be calculated by subtracting the estimated dollar amount spent from the full SIF dollar amount for the project.</p>
<b>St. Paul Sewer &amp; Utility:</b> Regarding the clarifications around volume reduction banking: This is good and allows for maximizing treatment where feasible.	Thank you for the comment.
<b>St. Paul Sewer &amp; Utility:</b> Regarding costs associated with gross pollutant removal devices: There are significant costs associated with these structures, including diversions and engineering, etc. These practices are often applied in areas where infiltration is not feasible or allowed. Annual maintenance expenditures of gross pollutant removal systems is very similar to volume reduction systems. Request to give credit for these costs when determining Stormwater Impact Fund contribution requirements.	Including gross pollutant removal costs in the Stormwater Impact Fund contribution requirements would result in implementation of less volume reduction practices. Both gross pollutant removal and volume reduction are needed to achieve collective water quality goals.
<b>St. Paul Sewer &amp; Utility:</b> Rule C.3.e 'Linear Projects': This is a good place in the rules to reiterate that volume constructed above and beyond the cost cap is eligible for banking.	We will add clarification in this section of the Rules.
<b>St. Paul Sewer &amp; Utility (to CRWD):</b> Regarding CRWD's Soil Compaction and Runoff Volume Study:	Modeling is not required for public street projects that do not increase total impervious surface. ROWs are

<p>Is this modeling requirement applicable for public street projects? Street projects either preserve vegetated areas to protect existing trees/root systems or reconstructing the ROW where we are importing material to enhance infiltration. Additionally, are ROWs already previously disturbed by construction activities?</p>	<p>considered previously disturbed by construction activities and are most often being replaced in-kind. Efforts to de-compact or add soil amendments in boulevard areas are always encouraged for vegetation health and reduced runoff.</p>
<p><b>St. Paul Sewer &amp; Utility:</b> Rule C Exceptions: There have been issues with third party projects operating in public ROW. Metro Transit is constructing bus stops in county/city ROW, and they're required by the watershed district to implement permanent stormwater BMPs that connect to our storm mains. There are concerns that Metro Transit is encumbering ROW with BMPs, which takes away treatment opportunity from future city/county reconstruction projects. There is concern that Metro Transit does not have the capability to maintain permanent BMPs in county/city ROWs. Is there opportunity to have Metro Transit and utility projects pay into the SIF for BMP implementation when a street is reconstructed? Where Metro Transit has dedicated guideways, it makes sense for them to adhere to watershed rules, although they have to understand the maintenance obligations.</p>	<p>We understand that past requests to install permanent stormwater practices in the ROW are often denied by the ROW authority. Applicants have progressed through the sequencing options as expected, and at times contributed to the Stormwater Impact Fund.</p>
<p><b>St. Paul Sewer &amp; Utility (to RWMWD):</b> Rule C.3.e 'Linear Projects': The onsite rate control requirement seems to differ from CRWD rules.</p>	<p>This is accurate. While we strive to have the most similar rules for the benefit of our public partners and developers, there are points of digression.</p> <p>The RWMWD Board of Managers does not generally approve of projects that may result in adverse flood impacts offsite/downstream, regardless of the method in which water quality requirements are being met. A proposed increase in rates would need to go through the variance process according to Rule I.</p>
<p><b>St. Paul Sewer &amp; Utility:</b> For Rule C required exhibits: Does rate control modeling need to be submitted for projects with no net increase in impervious area?</p>	<p>CRWD currently requires rate control modeling for all projects except for street projects that do not increase impervious area.</p> <p>RWMWD has not historically required rate control modeling for projects that do not increase impervious area unless a site spans multiple major subwatersheds and/or major drainage boundaries are proposed to change.</p>
<p><b>Ramsey County Public Works:</b> On page 4, the definition of "common plan of development" includes the addition of language: "An applicant applying for a new permit under a common plan of development</p>	<p>This is a language clarification and does not represent a change in our permit review process. Agree that common plans of development approved under previous rules and practices (ex: volume reduction,</p>

<p>must meet the current rules at the time of the submittal.” Can you clarify the impact of this language, specifically for multi-year projects and discouraging delaying compliance to future construction phases? Ex: historical stormwater ponds built for future drainage areas now lacking sufficient capacity for today’s design standards</p>	<p>rainfall distributions) may no longer be sufficient to meet stormwater management goals. For new portions being proposed for development, the applicant must demonstrate compliance with current standards. Previous treatment may still be utilized, but it’s possible that additional treatment will be required. Portions that are already developed and are not proposed to be disturbed do not need to provide additional treatment.</p>
<p><b>Ramsey County Public Works:</b> Will there be quantifiable metrics associated with the definition of “disconnected impervious”? Ex: maximum trail width, minimum width of impervious downstream of trail, slope of trail pavement</p>	<p>In a previous draft, specific metrics that would apply to the definition were included but removed prior to distribution to mirror the newly proposed NPDES permit by the MPCA. Specific parameters for impervious disconnection have been added back in and are confirmed to not be at odds with the current draft NPDES permit.</p>
<p><b>Ramsey County Public Works:</b> It might be appropriate to add Stormwater Impact Fund to definitions page, as well as linear cost cap. Will the newly proposed contribution amounts be spelled out in the rules document?</p>	<p>Definitions to be added as suggested. Cost cap and Stormwater Impact Fund amounts, similar to application fees, are adopted by WD boards through resolution and do not get included in the rules document directly.</p>
<p><b>Ramsey County Public Works:</b> Regarding elimination of the Rule C bridge exemption: If a proposed project included bridge re-decking and reconstructing approaches, would they be required to meet Rule C? Water quality treatment could be achieved via pretreatment structures, but in locations with heavy bedrock it would be difficult to infiltrate. Ex: Ford Parkway bridge project where there was limestone. If total disturbance does not exceed 1 acre for bridge projects, would applicants have to meet Rule C? Is re-decking considered land disturbance?</p>	<p>The bridge exemption will remain in both CRWD and RWMWD Rules.</p> <p>Bridge approaches continue to require stormwater treatment under current Rules.</p> <p>If land disturbance does not reach or exceed an acre, Rule C does not apply. It’s possible/likely that the whole bridge is not considered land disturbance but where there’s grading associated with bridges then that is disturbance. Re-decking would not be considered land disturbance.</p>
<p><b>Ramsey County Public Works:</b> “Linear projects proposing to meet full volume reduction requirements through SIF contribution shall be assessed at the full SIF rate.”- Does this apply to projects that only meet the regulatory fulfillment through the SIF? What about projects that partially meet Rule C onsite and the remainder is paid into SIF?</p>	<p>Linear projects that propose partial onsite treatment but do not reach the cost cap will be required to pay the remaining amount up to the SIF rate.</p>
<p><b>Washington County Public Health &amp; Environment:</b> Strongly recommend that District Rules C and F are consistent with the MPCA’s MS4 and NPDES rule requirements. Inconsistent language with the state’s rules creates extreme difficulty for public partners who are regulated MS4s.</p>	<p>Rule F has been constructed to mirror the NPDES permit requirements. If there are specific instances where you identify differences, please do provide specific citations.</p> <p>For Rule C, by statute, WDs are authorized to implement more stringent rules and these may vary to</p>



	meet the goals of that unique geography. Statewide standards are the minimum requirements.
<b>Washington Co. Public Health &amp; Environment:</b> Requesting modification to the “disconnected impervious” definition to include “sidewalks and trails 10ft wide or less bordered by down-gradient vegetated open space or vegetated filter strips with a minimum width of 5ft.” This is the language used in Rice Creek Watershed District’s rules.	In a previous draft iteration we had included specific metrics that would apply to the definition. We then revised the language to mirror the newly proposed NPDES permit by the MPCA. We’ll look to add that detail back in and ensure it’s not in conflict with state requirements.
<b>Washington Co. Public Health &amp; Environment:</b> The county is supportive of tying runoff rate requirements to existing conditions as opposed to pre-development conditions; the alternative compliance sequencing methods; the exemption of mill and overlay and disconnected impervious from Rule C.	Thank you for the comment.
<b>Washington Co. Public Health &amp; Environment:</b> Under Rule C Exceptions (C.5.f), it is requested that it be expanded to include “impervious surface mill, reclamation, or overlay; paving of an existing rural section of gravel road; catch basin or pipe repair/replacement that maintains existing hydraulic capacity.” This is the language used in Brown’s Creek Watershed District’s rules.	Acknowledged. No changes are proposed.
<b>City of Roseville:</b> Reviewed proposed changes. No comments.	Acknowledged. Thank you for the review.
<b>WSB (on behalf of cities of North St. Paul &amp; Woodbury):</b> The proposed costs for the SIF and linear cost cap are working against improving public infrastructure in areas other than water quality and stormwater management. Provide documentation for proposed increases, including costs of projects, bids, nature of projects, location of projects, etc. Since the pandemic, surge pricing cannot be used as representative for long term inflationary increases. Provide the percent increase from the existing amounts and demonstrate it does not significantly diverge from consumer inflation, construction cost index, MnDOT construction inflationary analysis.	Detail on the increases is provided in the attached memos and spreadsheet. Surge pricing was not used as a metric for calculation, but rather the average inflation values that have increased construction costs since the last revision. The SIF and linear cost cap values need to at least keep pace with construction costs in order to continue working towards the goals of improving surface water quality in our districts. Otherwise, less and less treatment is being provided for the same investment.
<b>WSB (NSP &amp; Woodbury):</b> Regarding the bridge exemption: The treatment requirement should be for impervious surface below the bridge and not the bridge itself. This will add additional cost and complexity to projects and will work against improving public infrastructure. Continue to include bridges as an exemption to Rule C.	The bridge exemption will remain in both CRWD and RWMWD Rules.

<b>WSB (NSP &amp; Woodbury):</b> Regarding the disconnected impervious definition: Provide additional guidance (Ex: minimum requirements on soils, type of adjacent vegetation, distance from wetlands/streams).	In a previous draft, specific metrics that would apply to the definition were included but removed prior to distribution to mirror the newly proposed NPDES permit by the MPCA. Specific parameters for impervious disconnection have been added back in and are confirmed to not be at odds with the current draft NPDES permit.
<b>WSB (NSP &amp; Woodbury):</b> The watershed should have a plan or process outlined in the rules on how and where the SIF is used and available. Cities need to be ensured that the funds they are contributing to are being used to solve local stormwater issues. “To the extent practicable” does not give communities any understanding on how the funds are being spent and what projects take priority.	Both watershed districts have SIF implementation plans available for review. Funds are tracked and spent by major subwatershed, not necessarily by contributor. This is done to offset the lack of treatment provided to the specific water resource. Per the alternative compliance sequencing, our rules require permit applicants to install onsite or offsite treatment when constructing projects to ensure their dollars spent directly benefit their own resources and infrastructure.  The SIF is the last resort and step in the alternative compliance sequencing, and is the least preferred option of the watershed districts.
<b>WSB (NSP &amp; Woodbury):</b> Reference the MN Stormwater Manual or provide guidance on the required number of soil borings per BMP type/size.	Addition made as requested, to section Rule C.4.m.
<b>WSB (NSP &amp; Woodbury to RWMWD):</b> Regarding the WCA administration language changes– How are current LGUs within the watershed being notified of the change? Are communities able to give up their current role as LGU to the District? What would that process look like?	This is a language clarification and does not represent any change. RWMWD is already the LGU within its boundaries for all member cities (including Woodbury and NSP). The only exceptions are the City of St. Paul, and within MnDOT ROW –they have elected to be their own LGUs.
<b>CRWD Board:</b> What are the rule implications for land bridges, broadly, and then also as the ReconnectRondo effort progresses?	Land bridges could follow alternative compliance sequencing as any other development would, to filtration or crediting for the bridge areas themselves. Bridge approaches and adjacent areas could remain available for infiltration. The bridge exemption will remain in both CRWD and RWMWD Rules.
<b>CRWD CAC:</b> Clarifications about current process and broad terminology. Clarifications provided during meeting discussion.	Noted, thank you.
<b>CRWD Attorney:</b> Move adopted version text from page 3 to new Enforcement section.	Completed.
<b>CRWD Attorney:</b> Move last sentence of Common Plan of Development sentence into rules, shouldn't be	Moved to Rule C exceptions.

in definition.	
<b>CRWD Attorney:</b> Disconnected Impervious: Be sure to not include rules in the definitions.	Definition and Rule C exception language adjusted.
<b>CRWD Attorney:</b> Disconnected Impervious: Includes all sidewalks or just those parallel to roadways? Perpendicular don't count? Other impervious areas with drainage to pervious areas?	Disconnected Impervious rule has been clarified with specific parameters. Independent trails and sidewalks experience unique challenges for stormwater management, and treatment can be accounted for by disconnection under these specific circumstances.
<b>CRWD Attorney:</b> Delete "pavement example" text on page 7, leftover from diagram that was moved.	Completed.
<b>CRWD Attorney:</b> Issuance of Permits: don't satisfy the requirements of the permit (because this is done during construction) but meet the requirements of the rules.	Completed.
<b>CRWD Attorney:</b> Recommend Expiration, Extension, Modification, Amendment process	Extension and Amendment sections added, various editing.
<b>CRWD Attorney:</b> Add definitions: Approval, Rules	Completed.
<b>CRWD Attorney:</b> Modifications in Rule B.	Ongoing review from attorney.
<b>CRWD Attorney:</b> Change "standard" to "requirement" throughout.	Completed.
<b>CRWD Attorney:</b> SIF spending should be moved to a separate section.	Desire to keep SIF information together, for ease of finding. Adjusted order to prioritize last bullet and included additional subsection.
<b>CRWD Attorney:</b> Linear Projects: What is a Unit Cost?	Completed.

To:	Elizabeth Hosch Permit Program Manager Capitol Region Watershed District	From:	Eric Osterdyk, EIT, CFM Todd Shoemaker, PE, CFM
Project/File:	227704813	Date:	May 12, 2023

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**Reference: 2023 Linear Project Cost Cap Updates****Introduction**

Capitol Region Watershed District (CRWD) staff tasked Stantec with researching and providing information regarding an adjustment to its linear project cost cap program. An adjustment to the linear project cost cap will be discussed with the Technical Advisory Committee (TAC) and adopted as part of the CRWD's annual rule updates. The goal of this analysis is to provide an equitable framework for all applicants.

Our analysis of CRWD linear project permit applications and recommendations are presented below.

**Background**

Linear projects face a unique challenge when implementing stormwater practices since they have limited space and must navigate a multitude of utility conflicts. The purpose of the linear project cost cap was to alleviate concerns over the ability to achieve compliance with volume reduction requirements and provide a budgeting tool to reduce cost uncertainty on projects with varying site conditions. Linear projects do not need to meet the full volume required by CRWD's Stormwater Management rule if costs associated with volume reduction and water quality meet or exceed the cost cap, which is set by CRWD's Board of Managers.

The linear project cost cap was originally set at \$20,000 per impervious acre in 2005/2006 when CRWD rules were originally adopted and was increased to \$30,000 per impervious acre in 2008. The cost cap remained the same from 2008 to 2020 and was not adjusted to account for inflation or rising construction costs. Over that time, the volume of stormwater storage provided per impervious acre on linear projects steadily decreased due to increasing construction costs and inflation (Figure 1). To combat this, CRWD recognized that the cost cap needed to be periodically increased to keep up with rising costs.

A previous analysis in 2018 (see attached Wenck memo dated 9/27/18) tabulated all cost cap projects in both CRWD and Ramsey Washington Metro Watershed District (RWMWD) and recommended a cost cap increase from \$30,000/impervious acre to \$75,000/impervious acre and a Stormwater Impact Fund (SIF) contribution of \$100,000/impervious acre. This adjustment did not go into effect until 2020 to give applicants a chance to adjust budgets for upcoming fiscal years. The cost cap has remained at \$75,000 per impervious acre to present.



Reference: 2023 Linear Project Cost Cap Updates

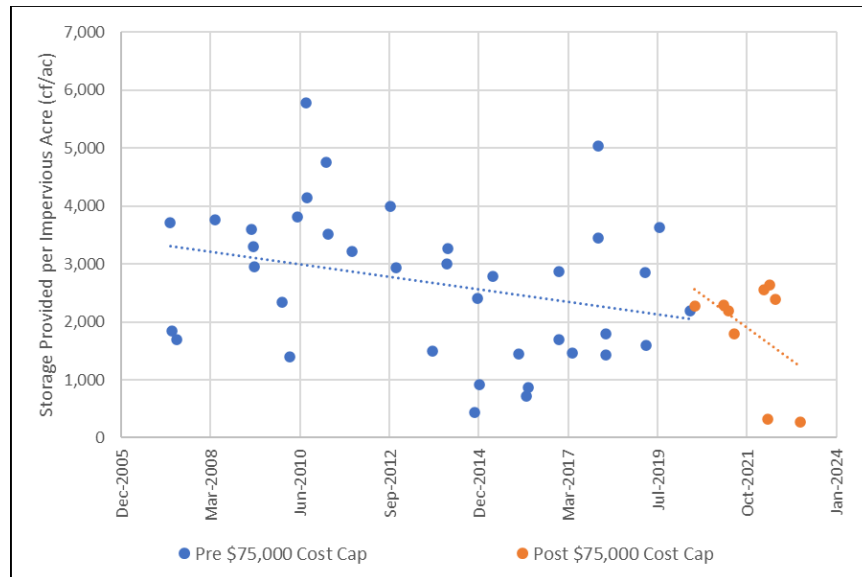


Figure 1. Storage Provided per Impervious Acre.

## Analysis

To justify an increase to the linear project cost cap, Stantec first looked at adjusting the \$75,000/impervious acre (calculated in 2018) for inflation. Based purely on inflation, Table 1 indicates that the 2023 cost cap should be raised to ~\$94,000 per impervious acre and the SIF should be increased to ~\$125,000 per impervious acre.

Table 1. Cost Cap and SIF increases based on Inflation.

Inflation Rate	Year	Cost Cap based on Inflation	Stormwater Impact Fund based on Inflation
1.9%	2018	\$75,000	\$100,000
2.3%	2019	\$76,725	\$102,300
1.4%	2020	\$77,799	\$103,732
7.0%	2021	\$83,245	\$110,993
6.5%	2022	\$88,656	\$118,208
<b>6.0%*</b>	<b>2023</b>	<b>\$93,975</b>	<b>\$125,301</b>
4.2%**	2024	\$97,907	\$130,542
4.2%**	2025	\$102,002	\$136,003
4.2%**	2026	\$106,270	\$141,693
4.2%**	2027	\$110,715	\$147,620
4.2%**	2028	\$115,347	\$153,796
4.2%**	2029	\$120,172	\$160,229
4.2%**	2030	\$125,199	\$166,932

Inflation Source: <https://www.usinflationcalculator.com/inflation/current-inflation-rates/>

\* Not based on an entire year of data

\*\* Based on the average inflation rates from 2018 to 2023

Reference: 2023 Linear Project Cost Cap Updates

Stantec also looked at justifying a cost cap increase based on cost per volume of storage provided on past projects in CRWD. Stantec took the list of cost cap projects generated by the 2018 analysis and updated it to include recent linear projects that satisfied stormwater management using the cost cap. This spreadsheet list includes infiltration volume provided, filtration volume provided, and cost estimates to construct. We then graphed the cost estimate per equivalent volume of each project over time and added a linear trendline (Figure 2). Volumes presented below reflect “equivalent” volumes to bring all volumes in terms of infiltration volume. Filtration is credited at 55% in CRWD, so to convert filtration volume to an “infiltration equivalent volume” you must divide by 1.82 (Calculation 1).

**Calculation 1:**  $\text{Equivalent Volume} = \text{Volume Infiltrated (ft}^3\text{)} + \left( \frac{\text{Volume Filtered (ft}^3\text{)}}{1.82} \right)$

Based on the linear trendline in Figure 2, the cost to provide one cubic foot of storage in 2023 is \$71.40. This results in a recommended cost cap of ~\$285,000 per impervious acre (Calculation 2).

**Calculation 2:**  $1.1 \text{ inches of runoff} \times 1 \text{ acre} \times \frac{43,560 \text{ ft}^2}{1 \text{ acre}} \times \frac{1 \text{ foot}}{12 \text{ inches}} \times \frac{\$71.40}{\text{ft}^3} = \$285,100$

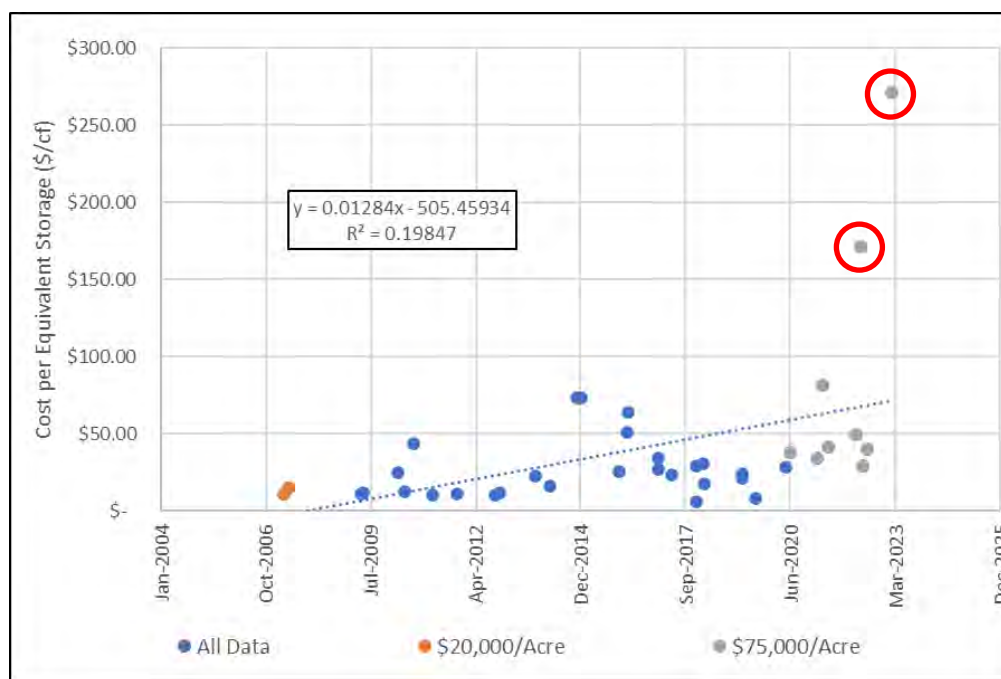


Figure 2. Cost per Equivalent Storage.

Two recent projects in 2022 (22-005 Edgecumbe Road Reconstruction & 22-019 Capitol City Bikeway Project) had extremely high cost per equivalent storage due to site constraints of high bedrock and utility conflicts (see red circles in Figure 2). These two projects drastically increase the slope of the trendline which has a major impact on projecting an accurate cost per storage in CRWD. If these two projects were removed, the projected cost to provide one cubic foot of storage in 2023 reduces to \$41.96, which results in a recommended cost cap of ~\$168,000 per impervious acre (Calculation 3) (Figure 3).

Reference: 2023 Linear Project Cost Cap Updates

**Calculation 3:**  $1.1 \text{ inches of runoff} \times 1 \text{ acre} \times \frac{43,560 \text{ ft}^2}{1 \text{ acre}} \times \frac{1 \text{ foot}}{12 \text{ inches}} \times \frac{\$41.96}{\text{ft}^3} = \$167,546$

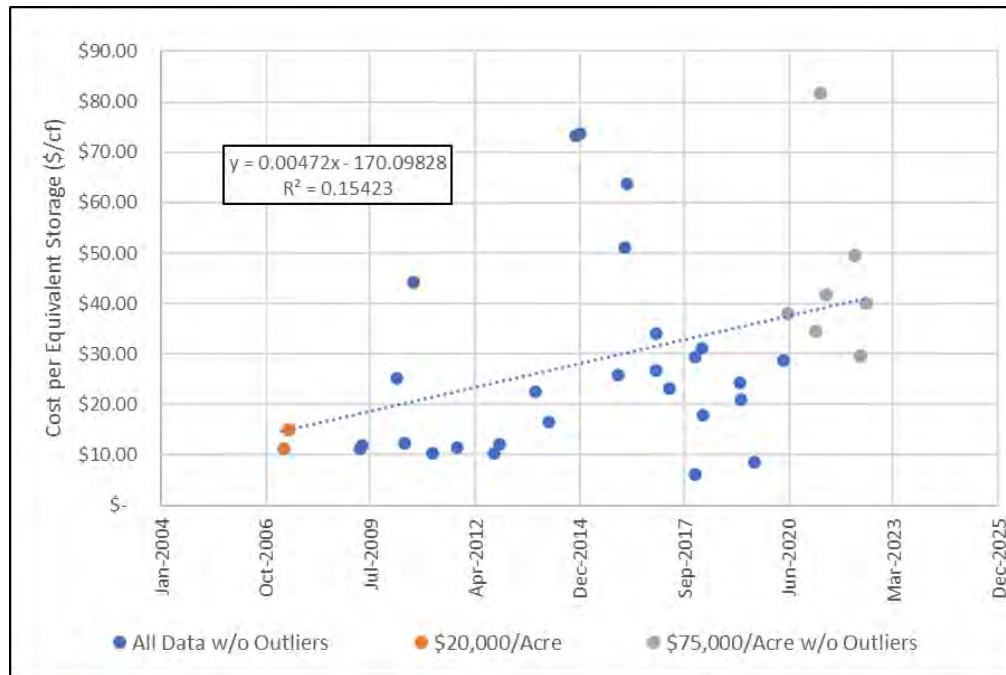


Figure 3. Cost per Equivalent Storage without Outliers.

## Recommendations

Stantec presents the following options based on the analysis above:

- **Option 1:** Set cost cap at \$94,000/impervious acre. This is a reflection adjusting the cost cap calculated in 2018 for inflation.
- **Option 2:** Set cost cap at \$168,000/impervious acre. This is the projected 2023 cost cap based on the linear trendline from past projects excluding two recent inefficient projects (22-005 Edgecumbe Road Reconstruction & 22-019 Capitol City Bikeway Project).
- **Option 3:** Set cost cap at \$131,000/impervious acre. This is the average of Options 1 and 2. The purpose of this option is to close the gap between the current cost cap and the linear trendline analysis.

For future analysis, Stantec recommends following up on past cost cap project BMPs to verify performance/success. Learning from past project successes/failures will help guide more effective BMPs in the future.

Reference: 2023 Linear Project Cost Cap Updates

**STANTEC CONSULTING SERVICES INC.**



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Water Resource Engineer  
Phone: 612-380-4917  
eric.osterdyk@stantec.com

Attachments:

1. 2018 Wenck Cost Cap Memo
2. Cost Cap Analysis\_V9 Excel



## Memorandum

**To:** Nicole Maras, RWMWD  
**From:** Brandon Barnes, PE  
**Subject:** Stormwater Impact Fund Rate Assessment  
**Date:** May 11, 2023  
**Project:** 23-62-0031.23

Rule C: Stormwater Management Section 3(c)(3) describes the Alternative Compliance Sequencing for sites where the volume reduction standard cannot be fully met onsite with infiltration best management practices (BMP). Section 3(c)(3)(iii) allows, as a last alternative, for the applicant to pay into the Stormwater Impact Fund (SIF) to cover the cost of implementing equivalent volume reduction elsewhere in the watershed. The Rule states that, "The required amount to contribute to the Stormwater Impact Fund shall be set by resolution of the Board." RWMWD last calculated the SIF rate at \$100,000 per acre of impervious area in 2018, which was an increase from \$40,000 per acre of impervious area which was set in 2008. The calculated adjustment in 2018 did not go into effect until 2020 to provide applicants an opportunity to adjust budgets for upcoming projects. RWMWD is interested in updating the SIF rate to reflect current costs.

RWMWD uses the SIF to implement volume reduction BMPs to offset the volume reduction that was not achieved on with permitted development. SIF dollars are used for the design, construction, and maintenance of BMPs. Barr reviewed bids for stormwater BMPs since 2018. However, because the SIF rate covers costs that are not included in construction bids (i.e., engineering and design, maintenance, etc), construction bids were not considered for updating the SIF rate.

Barr reviewed inflation data and the ENRI Building Cost Indices to estimate increase in the SIF rate. Annual inflation data was obtained from the US Inflation Calculator (reference: [Current US Inflation Rates: 2000-2023 \(usinflationcalculator.com\)](https://www.usinflationcalculator.com)). The SIF rate calculated based on inflation information is summarized in Table 1.

**Table 1 SIF Rate Increase based on US Inflation Data**

Year	Inflation Rate	SIF Rate Estimate
2018	1.9%	\$100,000
2019	2.3%	\$102,300
2020	1.4%	\$103,732
2021	7.0%	\$110,993
2022	6.5%	\$118,208
2023	5.0% <sup>1</sup>	\$124,118

<sup>1</sup> Based on available information as of May 4, 2023.

Barr also reviewed The Engineer News Record (ENR) Construction Cost Index (CCI) and Building Cost Index (BCI), which are measures of general construction costs. The CCI is used when labor costs are a high proportion of total costs. Whereas the BCI is more appropriate for projects where material costs constitute a larger percentage of the project cost.

Barr reviewed the 20-city average index, which is generally provides a better characterization of the change in price over time because it is less susceptible to abrupt price changes than an index for a specific city. Results for both indices are summarized in Table 2.

**Table 2 SIF Rate Increase based on ENR Cost Indices**

Year	Construction Cost Index <sup>2</sup>	SIF Rate Estimate Based on CCI	Building Cost Index <sup>3</sup>	SIF Rate Estimate Based on BCI
2018	11062	\$100,000	6019	\$100,000
2019	11281	\$101,979	6136	\$101,943
2020	11465	\$103,643	6281	\$104,352
2021	12133	\$109,681	6912	\$114,436
2022	13006	\$117,573	7791	\$129,440
2023	13209 <sup>1</sup>	\$119,408	8004 <sup>1</sup>	\$132,978

<sup>1</sup> Based on available information as of May 4, 2023.

<sup>2</sup> Reference: [Construction Cost Index History - As of May 2023 | Engineering News-Record \(enr.com\)](https://www.enr.com/construction/cost-index-history)

<sup>3</sup> Reference: [Building Cost Index History - As of May 2023 | Engineering News-Record \(enr.com\)](https://www.enr.com/building-cost-index-history)

Barr recommends setting the SIF rate at \$125,000 per impervious acre, which is similar to the SIF rate estimate based on inflation data and in the middle of the estimates using the ENR cost indices.

\* \* \* \* \*

# Stewardship Grant Program

\* \* \* \* \*

## Stewardship Grant Application Summary

**Project Name:** Beaver Lake Shoreline Restoration

**Application Number:** 23-19 CS

**Board Meeting Date:** 6/7/2023

**Applicant Name:** Brian Olsen

**Residential** ☐

**Commercial/Government** ☒

### Project Overview:

This project is a Ramsey County Parks and Recreation project to stabilize and restore a 230 linear foot section of shoreline at Beaver Lake County Park. Currently there is a cut face bank with open soils that are eroding into the lake. The rest of the shoreline currently has undesirables, invasive vegetation, and turf grass. The purpose of this project is to stabilize the erosion of the bank and shoreline slop, to create a healthy native shoreline buffer planting, and to maintain fishing access to residents that does not impact the shoreline ecosystem. Ramsey County Soil & Water Conservation Division is also providing \$20,000 in BWSR grant funds.

This project is eligible for 100% funding up to \$100,000.

### BMP type(s):

Shoreline Restoration(1)

### Grant Request:

\$42,315.00

### Recommendation:

Staff recommends approval of this application.

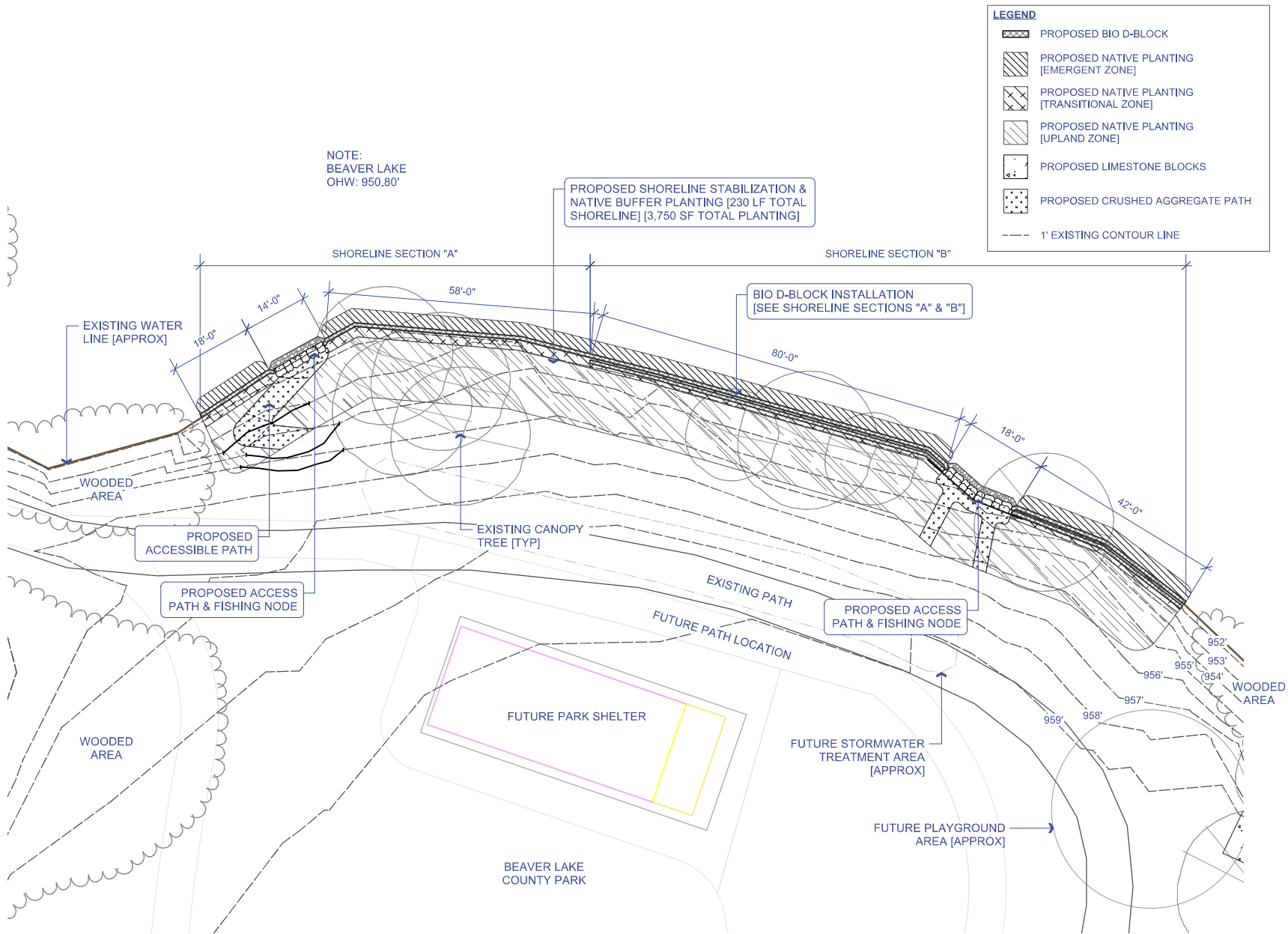
### Subwatershed:

Beaver Lake

### Location Maps:







**RAMSEY COUNTY**

RAMSEY COUNTY SWCD  
2015 VAN DYKE STREET  
MAPLEWOOD, MN 55109  
651-266-7280  
www.ramseycounty.us

PROJECT:  
BEAVER LAKE COUNTY PARK

LOCATION:  
1050 EDGEWATER BLVD  
ST. PAUL, MN 55119

WATERSHED DISTRICT:



DESIGNER: BRIAN T. OLSEN

DATE: 4/21/2023

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 Landscape Architect under the laws of the State of Minnesota.

Registration: Landscape Architect

State: Minnesota

Number: 42944

Signature: B. Gus Blumer

No.	Date:	Description

NOTES:

- CONTACT GOPHER STATE ONE CALL TO CONFIRM UTILITY LOCATIONS
- ELEVATIONS ARE APPROXIMATE, SITE VERIFY
- VERIFY ANY BID ALTERNATES OR ONSITE CHANGES WITH SWCD STAFF PRIOR TO INSTALLATION
- ORIGINAL SHEET SIZE: 11"x17"

SCALE: 1"=20'-0"



SITE PLAN

L100

# Stewardship Grant Program Budget Status Update

June 7, 2023

Homeowner	Coverage	Number of Projects: 12	Funds Allocated
Habitat Restoration and rain garden w/o hard surface drainage	50% Cost Share \$15,000 Max	8	\$20,560* **
Rain garden w/hard surface drainage, pervious pavement, green roof	75% Cost Share \$15,000 Max	4	\$42,089*
Master Water Steward Project	100% Cost Share \$15,000 Max	0	\$0
Shoreland Restoration	100% Cost Share \$15,000 Max	0	\$0

Commercial, School, Government, Church, Associations, etc.	Coverage	Number of Projects: 11	Funds Allocated
Habitat Restoration	50% Cost Share \$15,000 Max	2	\$7,565**
Shoreland Restoration (below 100-year flood elevation w/actively eroding banks)	100% Cost Share \$100,000 Max	2	\$139,907*
Priority Area Projects	100% Cost Share \$100,000 Max	4	\$264,154*
Non-Priority Area Projects	75% Cost Share \$50,000 Max	0	\$0
Public Art (\$50,000 Reserved)	50% Cost Share \$15,000 Max/Project	3	\$4,500**
Aquatic Veg Harvest/LVMP Development	50% Cost Share \$15,000 Max	1	\$15,000*
Enhanced Street Sweeping (\$128,000 Reserved)	Grant Recipients and Amounts to be Set at Future Meeting	5	\$128,000*

Maintenance	50% Cost Share \$7,500 Max for 5 Years	67	\$46,250*
Consultant Fees			\$24,305
<b>Total Allocated</b>			<b>\$692,330</b>

\*includes funds to be approved at current board meeting

\*\*includes staff approvals since previous board meeting

2023 Stewardship Grant Program Budget	
Budget	\$1,128,000
Total Funds Allocated	\$692,330
<b>Total Available Funds</b>	<b>\$435,670</b>

\* \* \* \* \*

# Action Items

\* \* \* \* \*

# Request for Board Action

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**Board Meeting Date:** June 7, 2023

**Agenda Item No:** 7A

**Preparer:** Paige Ahlborg, Watershed Project Manager  
Michael McKinney, Barr Engineering Co.

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**Item Description:** 2023 Enhanced Street Sweeping Grant Funding

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## **Background:**

It has been shown that street sweeping is a critical non-structural best management practice (BMP) employed by cities throughout Minnesota for the purposes of maintaining road surfaces, improving public safety through clearing of walking lanes and trash removal, and improving water quality through the removal of accumulated sediment and leaf litter. Recent studies promote the practice as a highly cost-effective BMP for phosphorus reduction (Hobbie et al, 2020; EOR, 2022). In consideration of recent research and focus on street sweeping program development, RWMWD worked with Barr Engineering to complete the [RWMWD Street Sweeping Prioritization Study](#) which was presented to the Board of Managers at the December 7, 2022 meeting. The meeting video can be viewed [at this link](#) at the 1:05:35 time mark.

In the study, a baseline recommendation of 1 spring sweeping, 1 summer sweeping, and 2 to 3 fall sweepings was determined to be the default sweeping recommendation to help meet water quality goals. Recommendations for how to best support enhanced street sweeping through the Stewardship Grant Program were also presented to the board at the December 7 meeting. The Board was supportive of allocating \$128,000 in 2022 carryover Stewardship Grant Program funds towards 2023 enhanced street sweeping efforts. Staff proposed moving forward with a targeted grant award approach in which staff would come back to the Board with priority cities to offer grant funding to enhance their 2023 street sweeping efforts.

In January 2023, following the December 7 board meeting, staff held a public works forum with our partner cities to present details of the street sweeping prioritization study. All cities were then offered the opportunity to meet with staff individually to discuss their current programs and future needs in more detail. Table 1 below shows the ranking of each city based on the recovery benefits that would be seen by adding 1-2 fall sweeping efforts. Many cities are already meeting the baseline recommendations, but the opportunity for additional funding was also considered. Seven individual city meetings were held and out of those meetings, five opportunities for enhanced street sweeping emerged all within cities that are not currently meeting the baseline sweeping recommendation due to staff and/or equipment shortages. These opportunities are outlined in Table 2. The dollar amounts indicated in the grant request are costs for Landfall, Little Canada, and Oakdale to hire a contractor to complete 1-2 additional sweepings in fall of 2023 throughout the entire RWMWD portion of these cities. The City of Woodbury completed their own street sweeping study spring of 2022 and has used those results to significantly increase their sweeping efforts within the South Washington Watershed District (SWWD) portion of the City. They would like to extend those efforts within RWMWD as well. The City of White Bear Lake did not have the capacity to coordinate an additional sweeping effort this year.



Given their high recovery ranking, RWMWD staff are proposing to use remaining grant funds to organize a contract for high priority areas of White Bear Lake this fall. This will help determine what it takes to coordinate these efforts and determine if it is something staff have the capacity to organize at a larger scale for priority areas in the future.

City of Roseville noted during our meeting that it would be useful to have priority sweeping areas identified throughout the entire city, not just within the RWMWD boundary. The rest of the City of Roseville falls within Capitol Region Watershed District (CRWD). CRWD will be moving forward with a prioritization study of their own that encompasses their portions of Roseville and St. Paul. Once complete, City staff can coordinate with both districts to prioritize sweeping efforts citywide.

One item that came up at every individual meeting was the need for more communication tools to share with their residents. RWMWD staff will be working to put together a street sweeping communication and outreach toolbox for cities to draw from to help educate the public on the benefits of street sweeping.

This round of funding is considered a pilot program for the enhanced street sweeping program. Approval at this time does not guarantee future funding. All cities will be asked to weigh collected material so we can better determine cost benefit results. Staff will use this information along with other data collected at our individual city meetings to determine how to best move forward with funding in 2024. Those suggestions will be brought to the board at a future meeting.

Table 1: Recovery Ranking by City

Recovery Ranking	City	Notes
1	Landfall	2023 Grant Request
2	St. Paul	Did not express interest in enhanced sweeping at this time. Will look into future CRWD coordinated effort.
3	White Bear Lake	2023 RWMWD Contract Option
4	Gem Lake	Not considered due to small area.
5	Woodbury	2023 Grant Request
6	Vadnais Heights	Did not express interest in enhanced sweeping at this time.
7	Little Canada	2023 Grant Request
8	Oakdale	2023 Grant Request
9	Roseville	Did not express interest in enhanced sweeping at this time. Will look into future CRWD coordinated effort.
10	Maplewood	Did not express interest in enhanced sweeping at this time.
11	Shoreview	Did not express interest in enhanced sweeping at this time.
12	North St Paul	Did not express interest in enhanced sweeping at this time.

Table 2: 2023 Enhanced Sweeping Grant Requests

Recovery Ranking	City	\$ Requested	# of Increased Sweepings
1	Landfall	\$4,500	2
3	White Bear Lake	\$29,570	1-3
5	Woodbury	\$65,000	6
7	Little Canada	\$12,000	1
8	Oakdale	\$16,930	2
	<b>TOTAL</b>	<b>\$128,000</b>	

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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: WQ10-** Expand District collaboration efforts with cities and counties to assist in the implementation of appropriate technologies and maintenance practices for improving water quality.

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**Staff Recommendation:**

Staff recommends the board approve the 2023 Enhanced Sweeping Grant Requests.

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**Financial Implications:**

The 2023 Enhanced Street Sweeping Grant funding budget of \$128,000 is included in the 2023 Stewardship Grant Program budget.

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**Board Action Requested:**

Approve the 2023 Enhanced Sweeping Grant Requests and direct staff to coordinate a street sweeping contract for areas in White Bear Lake.

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# New Reports/ Presentations

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## Technical Memorandum

**To:** Ramsey-Washington Metro Watershed District Board of Managers  
**From:** Tyler Olsen, Marcy Bean, Erin Anderson Wenz  
**Subject:** Equity Metric Evaluation  
**Date:** June 1, 2023  
**Project:** RWMWD Retrofit Program  
**c:** Tina Carstens, Paige Ahlborg, Brad Lindaman

### 1 Introduction

Barr evaluated three equity metrics (datasets) for the District as part of the Retrofit Project Mapping effort to determine if the District should utilize a new dataset for evaluating project impacts and targeted efforts in vulnerable areas, and ensuring an equitable approach in selecting new projects. The three datasets that Barr evaluated include the CDC's Social Vulnerability Index (SVI), Ramsey County's Community Climate Vulnerability Assessment (CCVA) Vulnerability Index, and the Metropolitan Council's place-based equity concepts of Area of Concentrated Poverty (ACP) or Areas of Concentrated Poverty with 50% or more minority population (ACP50). Each of these tools are used to assess vulnerability in different contexts. These metrics are being presented in this memo to the District's Board of Managers in anticipation of further evaluation and discussion around the selection of a new metric for the Stewardship Grant Program update in December 2023.

### 2 Summary of Equity Metrics

Below is a comparison of these indices, including their pros and cons, spatial resolution, and additional background information:

#### **CDC's Social Vulnerability Index (SVI) – based on 2020 census data:**

The SVI, developed by the Centers for Disease Control and Prevention (CDC), measures the social vulnerability of communities in the United States. It assesses factors such as socioeconomic status, household composition, minority status, and housing type to determine the vulnerability of communities to various hazards and disasters. The SVI is widely used in public health and emergency management contexts.

Pros:

- **Comprehensive:** The SVI considers various social factors that influence vulnerability.
- **Widely recognized:** It is a well-established tool used by many researchers, agencies, and organizations.
- **Nationally consistent:** The SVI provides a standardized measure across the United States.

- **Spatial Resolution:** The SVI is available at different geographic scales, including census tract, county, and state levels.

Cons:

- **Generalization:** The SVI provides an overview of vulnerability but may not capture specific vulnerabilities such as climate change.

### **Ramsey County's Community Climate Vulnerability Assessment (CCVA) Vulnerability Index:**

The CCVA Vulnerability Index, specific to Ramsey County, focuses on assessing vulnerability related to climate change impacts. It considers factors such as exposure to extreme weather events, infrastructure vulnerability, and social factors within the county. The index helps identify vulnerable communities and guide adaptation strategies at the local level.

Pros:

- **Locally tailored:** The CCVA index is designed to address vulnerability specific to Ramsey County, considering local factors and characteristics.
- **Climate change focus:** It emphasizes the impacts of climate change, which can assist in developing targeted adaptation measures.

Cons:

- **Limited applicability:** The CCVA Vulnerability Index is specific to Ramsey County and not available in other regions (i.e. Washington County).
- **Lack of standardized metrics:** Since it is a localized index, comparisons with other areas may be challenging.
- **Spatial Resolution:** The CCVA Vulnerability Index is likely to be available at the county or community level, depending on the level of detail in the assessment.

### **Metropolitan Council Place-Based Equity (ACP/ACP50):**

ACP/ACP50 are concepts used in the Metropolitan Council's place-based metrics and is the metric currently used by RWMWD to identify priority equity areas. They refer to areas with a concentration of poverty, and ACP50 includes areas where 50% or more of the population belongs to a minority group. This concept highlights the intersection of poverty and minority status in assessing vulnerability and inequities within a specific geographic area.

Pros:

- **Targeted focus:** It can identify specific areas where concentrated poverty and minority populations are prevalent, helping guide interventions and resource allocation.

Cons:



- **Simplification:** ACP50 may oversimplify the complexities and nuances of vulnerability within communities. Additionally, this is problematic when it is assumed that there is a direct link between race and poverty.
- **Limited scope:** ACP50 does not capture the full range of factors that contribute to vulnerability.
- **Spatial Resolution:** ACP50 can be defined at various geographic scales, such as census tract or neighborhood level, depending on the specific application and data availability.

### 3 Conclusion

In summary, the CDC's SVI provides a comprehensive measure of social vulnerability nationwide, while the CCVA Vulnerability Index focuses on climate change impacts at the local level, specifically within Ramsey County. ACP50, on the other hand, highlights the intersection of concentrated poverty and minority population in assessing vulnerability within a given area, which can be problematic when drawing generalized conclusions about vulnerable populations. The Metropolitan Council is moving away from using these place-based metrics in their vulnerability assessments, and therefore Barr does not recommend further consideration of this option. Barr recommends that RWMWD continue looking into the CDC's SVI to be adopted by the RWMWD as its equity metric because it is universally adopted and updated for each census year, and because it fully covers the District. This will continue to be reviewed and presented to the board of managers for approval at the annual Stewardship Grant Program update in December 2023.

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# Administrator's Report

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## MEMO

**TO:** Board of Managers and Staff  
**FROM:** Tina Carstens, Administrator  
**SUBJECT:** May Administrator's Report  
**DATE:** June 1, 2023

### A. Meetings Attended

Tuesday, May 3	9:00 AM	MAWA Executive Committee Meeting
Monday, May 8	9:30 AM	DEIA Workgroup
Wednesday, May 10	12:30 PM	Office Site Maintenance
Thursday, May 11	8:30 AM	Water Resources Conference Planning
Monday, May 15	VARIOUS	NR Team Interviews
Tuesday, May 16	VARIOUS	NR Team Interviews
Thursday, May 18	8:00 AM	Water Resources Conference Subcommittee
Friday, May 19	2:00 PM	Street Sweeping Study Discussion
Monday, May 22	9:00 AM	Minnesota Watersheds Board Meeting
	VARIOUS	NR Team Interviews
Tuesday, May 23	2:00 PM	Permit Rules Q&A Session
	VARIOUS	NR Team Interviews
Thursday, May 25	11:00 AM	BWSR Legislative Update

### B. Upcoming Meetings and Dates

CAC Meeting	June 13, 2023
MW Summer Tour (Albert Lea, MN)	June 20-22, 2023
<b>July Board Meeting</b>	<b>June 28, 2023</b>
Metro Watersheds Meeting	July 18, 2023
August Board Meeting	August 2, 2023
September Board Meeting	September 6, 2023
CAC Meeting	September 26, 2023
October Board Meeting	October 4, 2023
Metro Watersheds Meeting	October 17, 2023
CAC Meeting	October 24, 2023
November Board Meeting	November 1, 2023
Watershed Excellence Awards	Mid-November TBD
Minnesota Watersheds Annual Conference	November 28-30, 2023
CAC Meeting	December 5, 2023
December Board Meeting	December 6, 2023

**C. Board Action Log and Updates**

This month's board action log is attached. Each month, I review this list and add anything that was suggested in the previous meeting. If you have anything you'd like to add, this would be the time for board discussion.

**D. Minnesota Watersheds (formally MAWD) Updates**

Registration for the Minnesota Watersheds Summer Tour in Albert Lea, MN is now open. The first day of the event is Tuesday, June 20. The agenda starts at 12:30 pm with agenda partner updates followed by educational workshops. The evening will have a welcome, dinner, and tour overview. The tour will be the full day on Wednesday, June 21. Here is a link to the [agenda and tour stops](#).

For information on legislative updates you can go to their website:

<https://www.mnwatersheds.com/leg-updates>

For the monthly newsletters go here: <https://www.mnwatersheds.com/news-letters>

**E. WaterFest**

WaterFest will be held Saturday, June 3. This is a placeholder to give an update on the event.

**F. District Budget Process**

With having newer board members, I wanted to set out how the budget process will look over the next several months so you can be prepared for that discussion starting at next month's meeting. Here is the month to month timeline.

1. July – The board will hear from me on general budgeting plans for 2023. No numbers are shared at this time but more of a general work plan for the next year with program directives specified that would influence the budget numbers.
2. August – This is the first time the board will see a draft budget table with numbers and a detailed description of each budget line item. Discussion by the board will lead me to revise the draft budget for the September meeting. The draft budget is public noticed and also sent to cities and counties for review and comment during August.

3. September – This month is the required public hearing and preliminary budget and levy approval. I will prepare a short presentation for the board and the public. The budget and levy are approved, and I submit the documentation to the counties for tax levy planning purposes.
4. October/November – No official budget/levy actions are taken, but I am reviewing the current year's budget for carry over potential and project/program status.
5. December – This month is the required final budget and levy approval. I will update the budget and levy projections based on current year spending, but typically, the budget is fairly set. Occasionally, new projects pop up between September and December that need to be addressed in the budgeting process. I would bring those to the board as needed. It is good governance not to make significant changes (especially if it requires additional levy funds) between September and December but, if needed, it can be decided to increase the levy funds. I must send in the final tax levy certification to the counties by the end of the month.

#### **G. Staffing Updates**

We held interviews for both the Natural Resources Specialist and Natural Resources Program Manager over the last few weeks. At this time we have an accepted offer for our Natural Resources Specialist from Pat Williamson. Pat was our natural resources intern in the 2018 and 2019 field seasons. From there he has worked for Great River Greening and the City of St. Paul in the natural resources field. He has extensive experience in restoration and maintenance of natural systems. We are excited to have him back on our staff. Pat will start on Monday, June 12<sup>th</sup>.

For the Program Manager position, we are close to having an offer and should have an update for you at the meeting next week.



## Board of Managers Action Log

Wednesday, May 3, 2023

Item	Anticipated Action Date	Means of Action	Completed
Land Acquisition and Use Policy	Summer 2023	Board discussion and approval.	
Adopt-A-Drain Program Evaluation and Promotion	Summer 2023	Presentation and discussion.	
West Vadnais Lake Boundary Change	Fall 2023	Board review and approval.	
Alum Use Policy	Fall 2023	Proposed policy discussion.	
Governance Manual	Summer 2023	Board review and approval.	June 2023
Review of Equity Areas Definition	Summer 2023	Presentation & discussion	June 2023
Planting of Edible Plants in Restoration Areas	Winter 2022/2023	Barr new technology report	Feb 2023
PFAS (Per- and polyfluoroalkyl substances) in MN and RWMWD's role.	Winter 2022/2023	Presentation	Feb 2023
Miyawaki Mini-Forest Assessment	Fall 2022	Barr new technology report	Oct 2022
Alum use for internal load control along with information on alternative solutions.	Fall/Winter 2022	Memo/Presentation	Nov 2022

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# Project and Program Status Reports

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## Memorandum

**To:** Board of Managers and Staff  
**From:** Tina Carstens and Brad Lindaman  
**Subject:** Project and Program Status Report – May 2023  
**Date:** June 1, 2023

**Note:** The location, brief description, and current status of each project described below can be found on the [2023 RWMWD engineering services story map](#).

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### Project feasibility studies

#### **A. 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. This project will extend into 2022.*

Barr has created plan sheets for emergency flood-risk-mitigation measures and has met with the district to present the figures. This May, we will split figures by municipality and develop a memo for each city's staff. Barr will make any needed edits to the designs/figures after their review. Barr will begin working directly with city representatives to communicate the plans to potentially impacted individuals and answer questions about implementation.

#### **B. Kohlman Creek flood risk reduction feasibility study (Barr project manager: Tyler Olsen; RWMWD project manager: Tina Carstens)**

*The purpose of this study is to complete a feasibility evaluation of modifications to reduce flood risk along Kohlman Creek to remove structures from the 100-year floodplain. Work includes coordination with the cities of Maplewood and North Saint Paul, evaluation of alternatives to reduce flood risk, preparation of cost estimates for each alternative, and identification of permitting requirements. This project focused primarily on areas surrounding PCU Pond and the wetland complex west of White Bear Avenue. This feasibility study is a follow-up study of flood-prone areas identified in the Beltline resiliency study.*

This month, Barr completed the field survey of key stormwater infrastructure and topographic data and updated the existing conditions XPSWMM (hydrologic/hydraulic) model with this data. Additionally, Barr attended North Saint Paul's flood-resiliency open house and co-presented on flood risk and the district's role in managing flood risk. Next period, Barr will begin an alternatives analysis for different infrastructure improvements in the XPSWMM model and create schematics for each alternative in CAD.

**C. Ames Lake area flood risk reduction planning study (Barr project manager: Brandon Barnes; RWMWD project manager: Tina Carstens)**

*The purpose is to complete a planning-level evaluation of modifications to reduce flood risk near Ames Lake, supported by the City of Saint Paul. Work includes coordination discussions with Saint Paul; review of potential pipe alignments, land acquisition costs, utility conflicts, and permitting issues; and related design. If the planning study identifies projects that impact regional drainage, a feasibility study will be completed in 2023. This planning study is a follow-up study that was identified in the Beltline resiliency study.*

This month Barr began developing figures for concepts of flood-risk-reduction BMPs on the Saint Paul Housing and Redevelopment Authority (HRA) parcels. Coordination with City of Saint Paul staff has also continued, and we are anticipating a meeting with the City's Water Resource Working Group this summer to present preliminary concepts and solicit feedback. We plan to share initial concepts for City and HRA review later this summer.

**D. Owasso Basin area/North Star Estates improvements (Barr project manager: Sam Redinger; RWMWD project manager: Tina Carstens)**

*The purpose of this study is to evaluate the benefit-cost of flood risk reduction strategies in the Owasso Basin/North Star Estates area by reviewing potential pipe and berm 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 floodplain in this area. Stakeholder outreach with the City of Little Canada is an important part of this effort. This study is a continuation of the Owasso Basin bypass study, which laid out several phases of implementation and areas of further study.*

Barr has begun planning for geotechnical field investigations to support the final design of system modifications. Initial tasks include reviewing historical soil borings from the early 1990s when the Owasso Basin was constructed. The geotechnical investigation will also include the collection of soil borings to fill in gaps from historical borings. Next month staff will contact the North Star Estates property owner and Saint Paul Regional Water to discuss system improvements on their respective properties and schedule geotechnical investigation activities. We expect design activity to increase in July and continue through the fall as we prepare for the first construction phase in 2024.

**E. Resiliency study for non-Beltline tributary areas (pre-planning study and evaluation of existing data) (Barr project managers: Jay Hawley, Lulu Fang; RWMWD project manager: Tina Carstens)**

*The purpose of this project is to evaluate system-scale modifications to reduce flood risk within the portion of the RWMWD that was not evaluated as part of the Beltline resiliency evaluation. This portion of the watershed includes the Tanners Lake, Battle Creek Lake, Battle Creek, Carver Lake, Fish Creek, and Snake Creek subwatersheds. The evaluation will identify modifications to the drainage system to reduce flood risk to habitable structures located within the 100-year floodplain of District-managed water bodies, including evaluating actively managing outlet control structures on Tanners Lake, Battle Creek Lake, and Carver Lake. This evaluation will allow RWMWD to identify potential system-wide strategies*

*for mitigating flood risk that are consistent with the portion of the district that is tributary to the Beltline, which was studied as part of the Beltline resiliency evaluation.*

This month, Barr staff worked on reviewing and updating the existing-conditions XPSWMM models for the Tanners Lake, Battle Creek Lake, Battle Creek, Carver Lake, Fish Creek, and Snake Creek subwatersheds based on LiDAR, aerial imagery, and recent development plans. The review and updates include revising subwatershed boundaries and adding model detail to more accurately account for storage and flow routing in areas near potentially flood-prone structures. Next month, staff will evaluate potential system modifications to reduce flood risk and remove habitable structures from the floodplain. The study is expected to continue through 2023.

**F. Street sweeping study (Barr project managers: Michael B. McKinney; RWMWD project manager: Paige Ahlborg)**

*The purpose of this study is to provide general support related to implementing a pilot program to incorporate grant-funding support into the District's Stewardship Grant program for enhanced street-sweeping efforts.*

During this period, Barr coordinated with the district on recommendations for the 2023 street sweeping grant pilot program. Barr reviewed funding requests from select cities and met with district staff to discuss (a) supporting requests and (b) additional potential uses of 2023 pilot program grant funding. Barr also coordinated with the district on developing a presentation for the upcoming 2023 MAWD Summer Session.

## Research projects

**G. Kohlman Lake aquatic plants and nutrients: phase I and II (Barr project manager: Keith Pilgrim; RWMWD project manager: Bill Bartodziej)**

*The objective of this preliminary investigation is to determine the effect of intensive aquatic-plant management on Kohlman Lake water quality.*

The water quality of Kohlman Lake has declined significantly in recent years. During this time, the lake has had intensive aquatic plant management (not conducted by RWMWD). It is suspected that declining water quality is linked to the loss of aquatic plants. An extensive field data collection effort on Kohlman Lake and Beaver Lake (a control lake without significant aquatic plant management) will be conducted and will include water quality monitoring, aquatic plant monitoring (relative abundance) and biomass sampling, drone-based surveys of aquatic plant coverage, dissolved oxygen monitoring in-lake, and sediment chemistry sampling. These data will be used as inputs to a lake model to conclusively determine the effect of intensive aquatic plant management on nutrient concentrations in Kohlman Lake. Management guidelines will be developed after determining the level of aquatic plant management that can occur without adverse effects on water quality.

Activities during this month include management and communication with parties conducting sampling (Barr, RWMWD, and Ramsey County staff). Barr staff also conducted sediment coring in Kohlman and Beaver Lake and conducted drone flyovers of these lakes.



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

*The purpose of this project is to determine the potential for aeration to reduce internal phosphorus loading from bottom sediments in shallow lakes and ponds.*

Aerators have been placed in Bennett Lake (mid-2022), Markham Pond, and Gervais Mill Pond (end of 2022). Monitoring began in 2022, and the initial results demonstrated that aeration could reduce internal loading. Monitoring is being conducted again in 2023 to get a full-year evaluation of the benefits for Bennett Lake and Gervais Mill Pond. Monitoring will be conducted by Barr and RWMWD staff. A final report with a comprehensive analysis and recommendation regarding the potential for shallow lake aeration to control internal loading and improve shallow lake water quality will be provided at the end of 2023.

Barr staff activity during this recent month also included porewater sampling and analysis in Bennett Lake and Gervais Mill Pond to further understand the water quality benefits of aeration.

## **Project operations**

### **I. 2023 automated lake-level stations (Barr project manager: Chris Bonick; RWMWD project manager: Kyle Kubitza)**

*The purpose of this project is to continuously measure and record lake levels and display real-time and historical data in graphs on the RWMWD website for the following lakes: Phalen, Snail, Owasso, Wabasso, West Vadnais, Battle Creek, Tanners, Spoon, and Twin.*

The initial project is complete, including the installation of automated lake-level stations and the development of Power BI reports that display real-time and historical lake-level data in graphs on the RWMWD website.

Currently, individual lake graphs are viewable on each lake's webpage. Barr is currently working on a Power BI report allowing website users to view lake-level graphs for all lakes on a single webpage by simply clicking on a lake name rather than navigating to each lake webpage. Barr's data management and IS staff members have been developing data-connection and visualization processes for the single webpage. Barr's IS staff has completed a .csv (comma-separated values) based process for the Power BI reports, and data management staff members are now working on implementing this process on the single webpage version.

Earlier this spring, the Phalen Lake station's cell modem/datalogger stopped working and was removed and sent to the manufacturer for repair. Repairs were completed, and the cell modem/datalogger was reinstalled a few weeks ago. The station operated using a temporary cell modem/datalogger during repair work.

The Tanners Lake station is now running after a series of issues with the bubbler water-level sensor kept it offline for most of the past two years. Barr and district staff installed a temporary radar sensor for the 2023 monitoring season while staff develops a more viable configuration for the bubbler sensor. RWMWD and City of Oakdale staff can now access real-time and historical lake-level data through Barr's VDV system. Barr's data management staff members are working on a Power BI report to display the Tanners Lake real-time and historical data on the Tanners Lake webpage (similar to the other lakes).

Ice-out occurred from April 11–14 for the district's lakes. Spring surveys were conducted for the lake-level stations on April 21. Based on the survey results, district and Barr staff adjusted and calibrated the stations at Snail, Twin, Spoon, and West Vadnais Lakes. All other lake-level stations surveyed were accurate.

## Capital improvements

### **J. Woodbury Target store stormwater retrofit projects (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 at two Target retail stores.*

Barr has been working towards developing a geotechnical subcontract with Haugo Geotechnical Services to complete two soil borings in the proposed filtration basin locations. Barr has also been coordinating with Target Corporation to get the appropriate access approvals for the work. The geotechnical investigation is expected in mid-to-late June 2023.

Next month, Barr will provide a project schedule and budget summaries for Phase 2 tasks for district and board approval. Barr will start the final design in mid-July after approval of the schedule and budget.

### **K. Roosevelt Homes targeted retrofit project (Barr project manager: Marcy Bean; RWMWD project manager: Paige Ahlborg)**

*The purpose of this project is to create construction documents for a multi-phase flood management and water quality improvement project at the Roosevelt Homes public housing area in St. Paul.*

Roosevelt Homes is a multi-family housing area owned by the Saint Paul Public Housing Authority (SPHA). Barr recently updated existing conditions models to show more detailed resolution, and preliminary concepts were developed to provide the owner with options to consider. SPHA is interested in moving forward with 1–2 year phased retrofits. Barr and the RWMWD anticipate coordinating with the City of Saint Paul to help inform improvements. During this period, Barr prepared updated designs to support construction documentation which will be developed in June. Along with the Woodbury Target, geotechnical investigations that will inform design are underway (concurrent with geotechnical investigations for the Woodbury Target site).

### **L. Stewardship grant program support (Barr project manager: Marcy Bean and Michael McKinney; RWMWD project manager: Paige Ahlborg)**

*The purpose of this project is to a) provide BMP design and review services to cost-share applicants throughout the RWMWD on as-needed basis and b) support development of the stewardship grant program.*

Woodland Hills Church in Maplewood is interested in removing a portion of its underutilized parking lot to make way for tiny home communities. A site survey was completed during this period. Barr has refined concept plans and will begin construction documents. The church will work with a contractor to build the project as early as fall 2023.

Several grant applications were reviewed in May, including Woodlynn-Southlawn Area Street Improvements (Maplewood), Escape Climbing Raingardens (Little Canada), and Beaver Lake County Park Shoreline Restoration (Ramsey County Parks).

**M. Arbogast Stormwater Filtration BMP (Barr project manager: Leslie DellAngelo; RWMWD project manager: Paige Ahlborg)**

*The purpose of this project is to complete final design, plans, and specifications for a regional stormwater BMP in the Lake Emily subwatershed with the purpose of decreasing phosphorus loads to Lake Emily, which is deemed to be at risk of impairment from excess nutrients.*

During the last period, Barr led the project, reviewed the bids, reviewed contractor references, and presented the bids to the managers at the May meeting. Shoreline Landscaping and Contracting was the low bidder and was awarded the contract.

**N. Pioneer Park stormwater reuse (Barr project manager: Jennifer Koehler; RWMWD project manager: Paige Ahlborg)**

*The purpose of this project is to design and implement a stormwater reuse irrigation system in Pioneer Park to conserve groundwater and reduce phosphorus loading to downstream water bodies, in partnership with the City of Little Canada.*

Barr continued developing 90% design plans, including internal redlines. We also developed draft front end contract documents and organized initial technical specifications for updates following 90% design. This period's major design efforts included the design of the treatment pad, a structural review of the shoreline intake structure, and the development of electrical and controls design. We also coordinated with WaterTronics related to pump and treatment, Xcel related to power supply, and the irrigation control supplier/contractor to confirm interface and communications with the reuse system. We have updated the 90% design cost estimate as appropriate. We also coordinated the 90% design review meeting with district and city staff for the week of June 5–9.

**O. Double Driveway Pond and Fish Creek tributary improvements (Barr project manager: Tyler Olsen; RWMWD project manager: Tina Carstens)**

*The purpose of this project is to design and implement vegetation improvements around Double Driveway Pond, as well as stream-stabilization improvements in the Fish Creek tributary upstream of Double Driveway Pond.*

During this period, Barr staff completed the field survey of the Fish Creek tributary from the Bailey Nursery to Double Driveway Pond and from Double Driveway Pond to the tributary's outfall to Fish Creek. Barr also updated the system's existing hydrologic and hydraulic (XPSWMM) modeling for the final design and began setting up Civil3D base files for the final design. A desktop-level geotechnical analysis was also completed to evaluate the site for potential karst features to inform design solutions. Although karst is located within the region, karst does not directly impact the creek. Finally, Barr began the conceptual design of stream restoration options and will continue this effort over the next month.

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## CIP project repair and maintenance

### **P. 2023 CIP maintenance and repair project (Barr project manager: Gareth Becker; 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.*

Miller Excavating resumed work at the Site 6- Kohlman Basin Upflow Treatment System on May 24 and will continue until completed. Work at the other sites has been completed except for some pavement patching at Aspen Pond. Miller Excavating is anticipating the completion of the project on time.

Progress Payment No. 3 has been submitted and processed for payment for work completed through May 23. A request for payment will be made at the June Board meeting. The work is expected to be substantially complete by the end of June.

## **Q. Natural Resources Update – Joe Tillotson**

### **Ecological Restoration in Keller Regional Park – Update**

The Keller Regional Park restoration is progressing smoothly (see the project map below). Through the coordination efforts of Sage Passi, educational volunteer plantings with Ramsey County Master Gardeners, Water Stewards, and elementary–high school students have successfully installed nearly 3,800 native Minnesota wildflowers, with more plantings scheduled in the coming weeks. This year's interns have been hard at work ensuring the success of this project. A particular area worth highlighting is the prairie restoration just north of the Round Lake fishing pier (photos below). Fencing has been installed in completed sections of the restoration project. Regular watering, monitoring, and maintenance will continue throughout the growing season. Planned efforts and continued consideration for woodland and shoreline buffer restoration work along the west Keller Creek shoreline should resume after new NR staff are situated.



**Interns Jenni and Ashley sorting flats for plantings**



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**Jenni, students, and volunteers planting native wildflowers**



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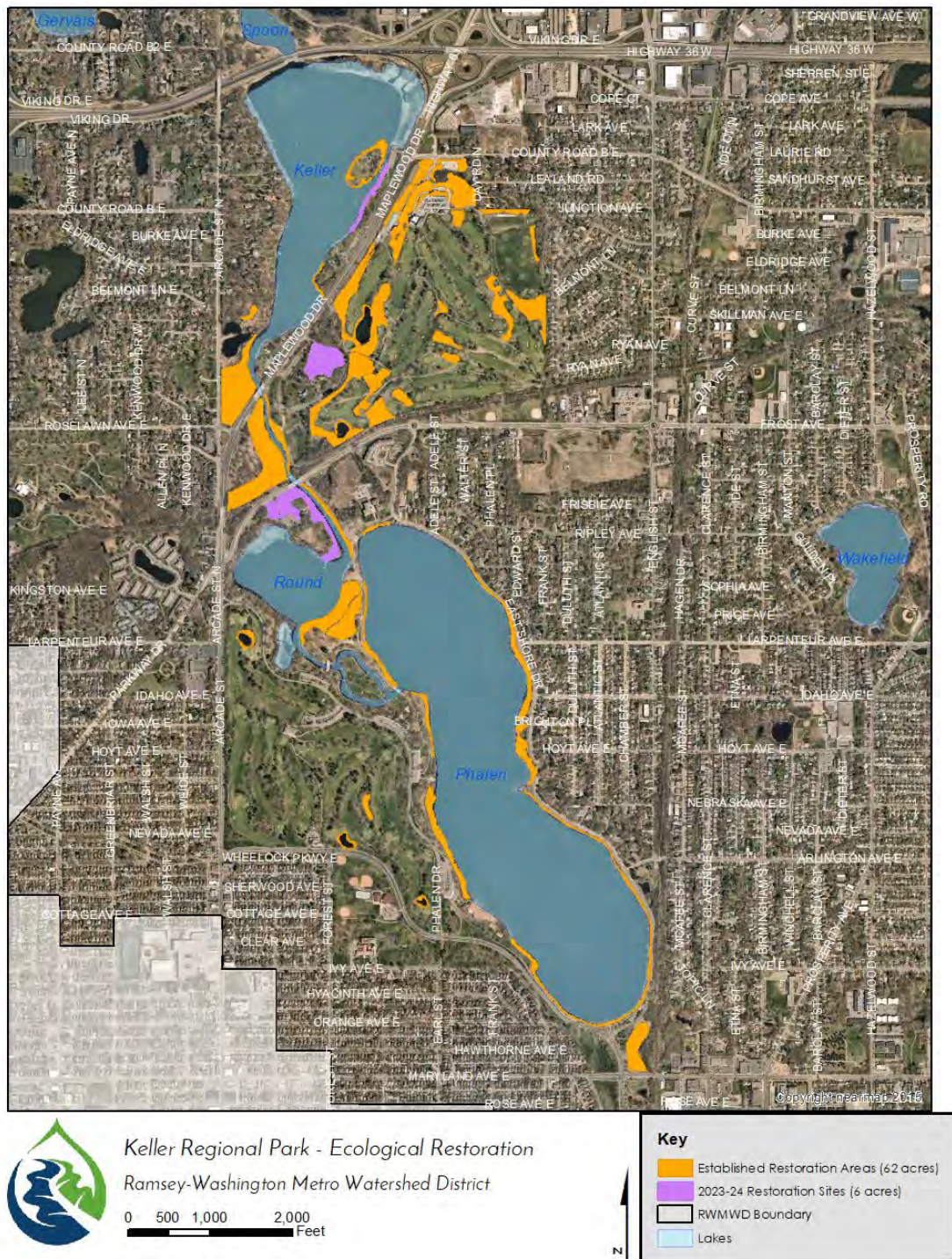
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### **Native Prairie Restoration north of Round Lake fishing pier – Before & After**







**Buckthorn was removed from the Round Lake shoreline in late winter.**

**Piles are stacked up for removal.**



## **R. Public Involvement and Education Program – Sage Passi Schools, Master Gardeners and Water Stewards Serving Community Together**



May has been a very action packed month with “Spring Cleaning” in early May at rain gardens at Central Park Elementary, Weaver Elementary and at the Boys and Girls Club pollinator gardens. These activities are becoming a yearly tradition. Thank you to fifth and sixth graders, Ramsey County Master Gardeners and Water Stewards in Roseville, St. Paul and Maplewood for cutting down last year’s growth, cleaning out inlets, weeding out dandelions, and watering trees. Thanks to our water quality team and two of our Water Stewards, Bette Danielsen and Phyllis Webster for taking the cuttings to the compost sites in Roseville and St. Paul. Thank you to the 50 fifth graders and their teachers at L’Etoile du Nord for your hard work in tidying up the Boys and Girls Club gardens, hauling mulch, assisting watershed staff and working with Bette Danielsen to install edging on the hillside garden and for “rescuing earthworms!” This site is beautiful and has exceeded our many expectations! Great teamwork made it happen!



**L’Etoile du Nord fifth graders and Bette Danielsen in action at the Boys and Girls Club.**

This month we finished up with transplanting sessions at schools, practiced water quality tests in preparation for the upcoming planting field trips at Battle Creek Regional Park and Round Lake and distributed WaterFest cards for classes to take home to advertise the event. We collected the artwork for the seed packets from various classes. Thank you to classes and teachers at Weaver, Lionsgate, and L’Etoile du Nord for growing plants that we will give away at WaterFest this year and use in various projects around our Watershed District.

## Preparing for the Round Lake Restoration, Mounds Park Academy and the Wilderness in the City Projects



### Practicing water quality measurements with the pH pens, the dissolved oxygen kits and clarity tubes

We spent the last week in April and the first two weeks in May getting students oriented for the upcoming Round Lake restoration, Wilderness in the City and Mounds Park hillside projects. We provided background about two of the sites with slide shows and hands-on practices in water quality monitoring for 17 classes at Weaver Elementary, Farnsworth Aerospace, American Indian Magnet, Hazel Park Preparatory Academy, L'Etoile du Nord and Lionsgate Academy. We also practiced the water quality tests we would implement at the lake. Tracy interacted with a Mounds Park Academy science class sharing a live video experience for them about the large scale Sonde water quality testing on a ship in the Great Lakes, similar to experience she had many years ago as a participant in a week-long teacher training in this program. We also did prep and planting on the hillside within the new restoration/rain garden project area at Mounds Park Academy.





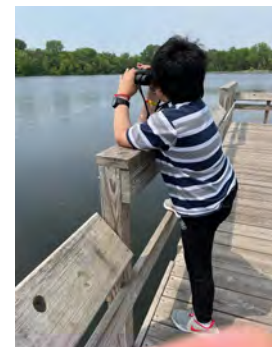
## Scenes from the Round Lake Restoration Project in Keller Regional Park

This large-scale upland restoration project in Keller Regional Park adjacent to Round Lake is engaging 22 classrooms grades third through 12<sup>th</sup> grade from May 17 through June 9. Thank you to the Watershed District's National Resources team (including interns) for prepping the site and supervising the plantings with the help of Ramsey County Master Gardeners, two Minnesota Water Stewards and Watershed education staff, Sage Passi and Tracy Leavenworth. Schools involved include 3 American Indian Magnet's fifth grade classes, 4 Weaver Elementary fifth grade classes, 3 Farnsworth Aerospace's 4<sup>th</sup> grade classes, one Hazel Park Academy's 7<sup>th</sup> grade Avid science class, 2 L'Etoile du Nord French Immersion third/4<sup>th</sup> grade classes, 6 Lionsgate classes and 3 Mounds Park Academy high school classes.



We alternated planting with experiences in water quality monitoring on the dock and shore next to Round Lake. We also did bird watching in the area around the lake and up Keller Creek with some of the classes. Thank you to the Ramsey County Master Gardener and several of our Water Stewards who helped and/or will be helping next week with classes with this project.

A special big thanks to Water Steward and CAC member Stuart Knappmiller who assisted classes with planting shifts at Round Lake. He runs to this lake most days from his home by Lake Phalen and culminated his runs by helping seven classes plant at the lake over the span of the restoration project! **Below photos left to right:** macro invertebrate chart, birdwatching on Keller Creek and looking at birds with binoculars at the boardwalk on Round Lake.





**Below are more photos from the planting, bird watching and water quality experiences at the Round Lake restoration site this spring:**

