

June 2025 Board Packet

Agenda



Regular Board Meeting Agenda

Wednesday, June 4, 2025 6:30 PM

This month's meeting will be held at the district office (2665 Noel Drive, Little Canada, MN) and via Zoom's video conferencing platform. Board members, staff, consultants, and the general public can join in person OR via video and/or phone. The public can listen to the meeting but not participate, with the exception of the visitor comments portion of the agenda. Instructions for joining 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: All items to be approved with one motion unless removed from the consent agenda for discussion.
 - A. Approval of Regular Meeting Minutes May 7, 2025 (pg. 8)
 - B. Treasurer's Report and Bill List (pg. 16)
 - C. Regulatory Program
 - i. 25-15 RWMWD Lake Wabasso Outlet Replacement, Shoreview (pg. 36)
 - ii. 25-18 LTS Outer Ring Fiber Optic Installation, Multiple Cities (pg. 40)
 - iii. 25-19 500 Bielenberg Phase II Hartford Site, Woodbury (pg. 43)
 - iv. 25-20 IronGate Data Center Addition, Woodbury (pg. 55)
 - v. 25-21 Proceeds Community Center, St. Paul (pg. 59)
 - D. Stewardship Grant Program
 - i. 25-22 CS St. Paul 2025 Street Sweeping (pg. 63)
 - ii. 25-24 CS Chatterton (pg. 64)
 - iii. 25-25 CS Larson (pg. 66)
 - iv. 25-26 CS Cassidy (pg. 68)
 - v. 25-29 CS Lake Place Townhomes (pg. 70)
 - vi. 25-31 CS Hildebrand (pg. 72)
 - vii. 25-33 CS Mehmel-Guiang (pg. 74)
 - E. CIP Maintenance and Repair Change Order No. 3 (pg. 76)
- 4. Visitor Comments (limited to 4 minutes each)
- 5. Regulatory Program
 - A. Applications
 - i. 25-16 RWMWD Kohlman Creek Flood Risk Reduction, North St. Paul/Maplewood (pg. 86)
 - ii. 25-17 Xcel ECL Renewal, St. Paul/Maplewood (pg. 103)
 - B. Regulatory Monthly Memorandum (pg. 108)
- 6. Stewardship Grant Program
 - A. Applications
 - i. 25-32 CS Preuss (pg. 111)
 - B. Budget Status Update (pg. 120)

7. Action Items

- A. District MS4 Stormwater Pollution Prevention Plan (pg. 122)
- B. Kohlman Creek Flood Risk Reduction Project Advertise for Bid (pg. 155)
- C. Lake Wabasso Outlet Replacement Project Advertise for Bid (pg. 179)
- 8. Attorney Report
- 9. Board Discussion Topics
- 10. New Reports and/or Presentations (pg. 196)
 - A. Minnesota Stormwater Research Council (MSRC) Annual Report Paige Ahlborg and John Bilotta, MSRC
- 11. Administrator's Report (pg. 210)
 - A. Meetings Attended
 - B. Upcoming Meetings and Dates
 - C. Staff Anniversaries
 - D. Board Action Log
 - E. New Vehicle Purchase Funding
 - F. Minnesota Watersheds Updates
- 12. Project and Program Status Reports (pg. 214)

Project Feasibility Studies

- A. Manufactured Homes Resilience Evaluation
- B. Evaluation of Compliance with South Metro Mississippi River TSS TMDL
- C. Street Sweeping
- D. Interim Emergency Response Plans
- E. Roseville Central Park Flood Risk Reduction Feasibility Study
- F. Stormwater Model Updates

Monitoring Water Quality/Project Monitoring

- G. Special Project BMP Monitoring
- H. Battle Creek and Fish Creek Monitoring

Watershed Management Plan Update

I. Watershed Management Plan Update: Phase 1- Stakeholder Engagement

Lake Studies and TMDL Reports

J. 2025 Grant Applications

Research Projects

K. Wakefield Lake Aeration Feasibility Study

Project Operations

- L. 2025 Tanners Alum Facility Monitoring
- M. Lake-level Station Operations and Maintenance and Rain Gauge Installation
- N. Lake-level Station Forecast Integration

Capital Improvements

- O. Roosevelt Homes
- P. Targeted Retrofit Projects 2025
- Q. Pioneer Park Stormwater Reuse
- R. Fish Creek Tributary Improvements
- S. Cottage Place Wetland Regeneration
- T. Kohlman Creek Improvements
- U. Lake Wabasso Outlet Replacement
- V. Kohlman Lake Alum Treatment

CIP Project Repair and Maintenance

- W. Routine CIP Inspections and Unplanned Maintenance Identification
- X. 2025 CIP Maintenance and Repairs
- Y. Beltline Long-Term Fix Near River Outfall
- Z. Beltline and Battle Creek Storm Sewer Five-Year Inspection

Program Updates

- AA. Natural Resources Program
- BB. Communications and Outreach Program
- 13. Items Handed Out at Meeting (Packet Revised 6/5/25)
 - A. 7B Change Order No. 4 Beltline Mississippi River Branch Outfall Repalcement (pg. 230)
 - B. 2025 Minnesota Watersheds Resolution No. 1 (pg. 236)
- 14. Manager Comments and Next Month's Meeting
- 15. Adjourn



NOTICE OF BOARD MEETING Wednesday, June 4, 2025 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/85694178033

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 856 9417 8033. The meeting password is 731895. If you have any questions, please contact Tina Carstens at tina.carstens@rwmwd.org.

Consent Agenda



Ramsey-Washington Metro Watershed District Minutes of Regular Board Meeting May 7, 2025

The Regular Meeting of May 7, 2025, 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/JDVYxK0ByJI. Video time stamps are included after each agenda item in minutes.

PRESENT: ABSENT:

Val Eisele, President (arrived at 7:00 pm) Ben Karp, Vice President Mark Gernes, Secretary Stephanie Wang, Treasurer Gabi Grogan, Manager

ALSO PRESENT:

Staff:

Paige Ahlborg, Assistant Administrator
Nicole Maras, Regulatory Program Manager
Eric Korte, Monitoring Program Manager
Kendra Kloth, Regulatory Technician
Mary Fitzgerald, Regulatory Specialist
Patrick Williamson, Natural Resources Specialist
David Vlasin, Project Coordinator

Consultants:

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

Visitors:

Nolan Wall, City of Vadnais Heights Blaine Barker, Real Estate Equities Travis Fristed, Braun Intertec

1. CALL TO ORDER

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

2. APPROVAL OF AGENDA (0:11)

Vice President Karp requested to move item 5B Vadnais Heights Affordable Housing Project Introduction and Discussion to item 9B Board Discussion Topics to ensure that President Eisele would be present for the discussion.

Motion: Manager Gernes moved, Manager Wang seconded, to approve the agenda as amended.

Motion carried unanimously by those present (4-0). President Eisele was absent.

3. CONSENT AGENDA (1:58)

- A. Approval of Regular Meeting Minutes from April 2, 2025
- B. Approval of Special Workshop Meeting Minutes April 2, 2025
- C. Treasurer's Report and Bill List
- D. Permit Program
 - i. <u>25-10 Maplewood 2025 SIP Prosperity Road, Maplewood</u>
 - ii. 25-11 Helmo Station Development, Oakdale

- E. <u>Stewardship Grant Program</u>
 - i. 25-15 CS Pioneer Park Stormwater Enhancements
 - ii. 25-18 CS Cherokee Hills 3
 - iii. 25-19 CS Parnell
 - iv. 25-20 CS Oakdale 2025 Street Sweeping
- F. County Road C Culvert Replacement Change Order No. 2
- G. <u>CIP Maintenance and Repair Change Order No. 2</u>

Manager Gernes questioned if Ramsey County would be reimbursing the District for the County Road C Culvert Replacement – Change Order No. 2 increase of \$1,080.

Paige Ahlborg confirmed that Ramsey County would be reimbursing the District for the additional cost.

Manager Wang requested more information on who would be responsible for maintenance for permit application 20-10 Maplewood 2025 SIP – Prosperity Road, Maplewood.

Nicole Maras stated that the property is owned by the City of Maplewood, and they would be responsible for the maintenance.

Manager Gernes questioned if the curb cut rain gardens would be eligible for maintenance grants.

Paige Ahlborg explained that maintenance grants are not typically awarded to permit sites. Paige noted that if the maintenance falls on the homeowners, there may be options to provide grants.

Manager Wang questioned if the City of Little Canada would consider reseeding with something other than residential turf grass for Stewardship Grant application 25-15 CS Pioneer Park Stormwater Enhancements.

Paige Ahlborg stated that it is something that could be brought to the city. Paige noted that the project had already gone out to bid.

Motion: Manager Gernes moved, Manager Wang seconded to approve the consent agenda.

Motion carried unanimously by those present (4-0). President Eisele was absent.

4. VISITOR COMMENTS (6:24)

No comments.

5. PERMIT PROGRAM (6:40)

A. Applications

i. 25-12 Oakdale 2025 SIP, Oakdale

Nicole Maras provided details of the Oakdale 2025 SIP street reconstruction project. Nicole explained that there was a proposed filtration bench adjacent to a wetland. Nicole noted that the wetland was currently used as a stormwater basin and had been excavated by the District in the past. Nicole went on to explain that the City of Oakdale proposed to partially meet volume reduction credits with the filtration bench and requested to defer the remainder of the volume requirement due to reconstruction of a nearby street that would take place in 2026. Nicole explained that the City of Oakdale would like to design and construct regional treatment with the 2026 reconstruction project, which would take care of the remainder of the credits. Nicole stated that due to the stormwater basin being a historical wetland there was a no loss application that had been submitted for processing. Nicole explained there was a variance request for temporary disturbance to the wetland buffer for access and grading as well as installation of the filtration bench. Nicole noted that the filtration bench would be considered a permanent impact.

Vice President Karp asked for more information on what will be used to replant the filtration bench.

Nicole Maras explained that there was no current plan to replant the filtration bench, noting that long-term weed management would be needed.

Manager Gernes asked for more information on the seeding plan.

Nicole Maras explained that the slopes that would need to be reseeded and restored as part of the temporary impacts to the wetland buffer. Nicole noted that there would be some restoration, but the bench itself would be iron enhanced sand.

Manager Genres asked for more information on the wetland. Manager Gernes noted that the wetland was identified in the District's classification management system as an 'A' wetland.

Nicole Maras explained part of the wetland was considered mitigation for the original impact in 2005. Nicole explained that any mitigation wetlands are automatically given the highest classification in terms of wetland buffer. Nicole provided more information on the classification of wetland being discussed and the details of the project.

<u>Motion:</u> Manager Wang moved, Manager Grogan seconded to approve permit application 25-12 Oakdale 2025 SIP, Oakdale with the special provisions and variance request.

Motion carried unanimously by those present(4-0). President Eisele was absent.

B. Regulatory Monthly Memorandum

Nicole Maras reviewed the monthly regulatory memorandum. Nicole discussed violations from the month of April, meetings and training attended by staff as well as staff approved permits. Nicole highlighted larger projects with inspections beginning during the 2025 construction season.

Manager Wang requested more information on the Phalen Creek Daylighting maintenance discussion.

Nicole Maras explained that a permit application had not yet been received. Nicole provided details of the discussion.

Paige Ahlborg stated a formal ask could be expected later in the summer.

6. STEWARDSHIP GRANT PROGRAM (24:07)

A. Applications – see consent agenda

B. <u>Budget Status Update</u>

Paige Ahlborg provided a review of the Stewardship Grant Program budget status update. Paige stated that there had been several staff approvals. Paige noted that the City of St. Paul would be submitting a street sweeping grant application and applications were also expected to come in from the City of White Bear Lake and Landfall, which would be brought to the Board at the June meeting.

7. ACTION ITEMS (27:03)

A. 2024 District Annual Financial Audit

Paige Ahlborg provided an overview of the 2024 District Annual Financial Audit. Paige noted that everything went well with the audit process.

Motion: Manager Gernes moved, Manager Grogan seconded to accept the 2024 Annual Audit Report.

Motion carried unanimously by those present (4-0). President Eisele was absent.

8. ATTORNEY REPORT (28:13)

Laurann Kirschner provided details of the work completed by the attorney's office over the last month which included contract document review for the projects at Cochran Recovery Services, Maplewood Toyota and Roosevelt Homes.

9. BOARD DISCUSION TOPICS

A. <u>Board Discussion</u> (29:22)

Vice President Karp discussed the CAC Watershed Management Plan update workshop that he had attended with Manager Wang. Vice President Karp provided details of the meeting and what had been discussed.

Manager Wang provided additional information on the CAC workshop.

B. Vadnais Heights Affordable Housing Project Introduction and Discussion (31:15)

Nicole Maras provided an introduction to the Vadnais Heights Affordable Housing Project. Nicole noted that representatives were present on behalf of the developer, consultants, and City of Vadnais Heights. Nicole explained details of the work that had been done to evaluate the proposed project over the last few months. Nicole noted that avoidance and minimization were at the top of mind during that time. Nicole explained that the proposed location was an undeveloped parcel and the project would call for a large permanent wetland impact. Nicole stated that no Board action was requested at that time, and the information was brought to the board for discussion. Nicole provided information on the steps that would be taken and approvals that would be needed for the plan to move forward.

Blaine Barker with Real Estate Equities, the developer of the Vadnais Heights affordable housing project began his presentation by providing background information on their previous work on affordable housing. Blaine stated that Real Estate Equities proposed to develop a 180 unit building in Vadnais Heights on the southeast corner of 694, near Highway 61. Blaine explained that over an acre of wetland would be impacted by the construction. Blaine explained that there would be plans for onsite mitigation as well as a plan to purchase credits to get to the 2-1 mitigation requirement. Blaine stated that at the time of the meeting only sequencing had been completed. Blaine explained that they wanted a discussion with the Board before going further into planning. Blaine stated that the proposed development would be a six-story building with one level of at grade parking. Blaine explained that there would also be 1.8 surface parking stalls per unit. Blaine stated that the City of Vadnais Heights required two stalls per unit, but they would be requesting a variance to that rule to minimize the wetland impact. Blaine went on to provide more details of the proposed development such as the amenities within the units, parking stalls provided, and amenities provided on the grounds. Blaine explained that other locations were looked at for their proposed development. Blaine stated the proposed location was the only location where they've been able to come to an agreement with a landowner.

Nicole Maras stated that a portion of the sequencing application had been provided in the May Board packet. Nicole explained that the information provided in the packet summarizes the avoidance, minimization and alternative sites that had been considered. Nicole stated that response to the comments from the technical review had been received and were under review. Nicole noted that a notice of decision would be forthcoming from staff. Nicole reiterated that this would only approve the sequencing and would not approve any onsite impacts.

President Eisele stated that the mapping illustrated a much larger wetland impact in the than what he had expected. President Eisele stated that he understood the priority of providing affordable housing while still protecting the wetlands. President Eisele questioned if other design alternatives had been investigated.

Nicole Maras provided information on the site and proposed location for the development. Nicole noted that design and feasibility studies for Geotech had not been completed. Nicole provided more information on the proposed design and how a future submittal would need to meet District rule E. Nicole noted that WCA would require a 2-1 replacement and any credits that would not be on site would be bank credits purchased.

Manager Gernes requested more information of the on-site wetland's locations. Manager Gernes noted that the

sequencing applications showed cases where incidental wetlands under WCA were present.

Nicole Maras explained that the wetlands were included in the sequencing application and the TEP had reviewed. Nicole provided more information on the on-site wetland locations.

Manager Gernes questioned if there had been a MNDOT setback that would not allow for the development to be built further north on the property.

Blaine Barker confirmed that the property was located against the MNDOT set back which would not allow them to build further north.

Nicole Maras noted that the site also included an easement for a sanitary sewer on the east side of the property which would not be eligible for inclusion for the wetland mitigation or buffer.

President Eisele asked for information on how frequently impacts of more than 1 ½ acres of impact were approved by the District.

Nicole Maras stated that the last time a similar impact had been approved was 9 years prior and the impact was around 1 acre. Nicole noted that the impact for that commercial site was less than what was currently being proposed but was the closest she was able to find.

Manager Gernes questioned if alternative parking solutions had been investigated.

President Eisele stated that he would also like to see alternative parking options, noting that the parking lot was what would be causing the wetland disturbance.

Blaine Barker stated that multiple alternatives had been looked at.

Manger Gernes provided ideas of what he thought would be good options for alternative parking and questioned multi-level parking had been looked at.

Blaine Barket stated that he believed multi-level parking would become cost prohibitive. Blaine stated that an alternative location for the parking lot could be looked into.

Travis Fristed provided information on why moving the location of the parking lot to the northeast may be challenging. Travis provided details of the proposed parking lot, BMP installations and overall site plans.

Manager Gernes stated that he wasn't comfortable with the size of the proposed impact.

President Eisele agreed that he was not comfortable with the size of the proposed impact. President Eisele noted that a large retrofit plan may need to be created due to water management issues that may arise. President Eisele reiterated that he would like to see more options.

Manager Grogan stated that she was aware of streams in the location and agreed that water management may become an issue, noting that there may be side effects that hadn't been accounted for.

Blaine Barket questioned if there was a number for amount of impact area that the Board would be comfortable with. Blaine noted that their intention was to follow all District rules.

President Eisele noted that the rules are intended to protect the wetlands from impact. President Eisele explained that with the current plans the replacement would be less than one acre while the impact would be more than one acre.

President Eisele stated that the current onsite replacement plan did not seem feasible in the current configuration.

Manager Gernes stated that there wasn't a magic number for what they would like to see as far as impact to the wetland. Manager Gernes reiterated that the rules are intended to protect wetlands.

Manager Karp questioned if culvert replacements would be needed. Manager Karp stated that if the rules are being met there wouldn't be a reason to say no.

The Board agreed that they would like to see more minimization efforts. The Board agreed to move forward with the sequencing decision with more discussion to come when a formal decision is needed and more site-specific investigation had been completed.

10. NEW REPORTS AND/OR PRESENTATIONS (1:35:15)

A. 2024 Water Monitoring Annual Report Presentation, Eric Korte

Eric Korte began his presentation by giving an overview of what was discussed in the 2024 Water Monitoring annual report. Eric proceeded to give details on the lake and pond water quality monitoring completed by staff. Eric gave details on the frequency and techniques used in lake and pond sampling. Eric explained that samples are taken to look for phosphorus, chloride, chlorophyll A and nitrogen. Eric provided an overview of the 2024 state standards for lakes. Eric noted that several lakes were shown as not meeting standards for phosphorus, chloride, chlorophyll A and nitrogen. Eric explained that the intense rain periods followed by periods of draught caused dips in water quality in 2024. Eric noted that things can vary from year to year, so it is best to look at 10-year trends. Eric provided details of the 10-year lake trend analysis for Battle Creek Lake, Snail Lake, Gervais Lake, Beaver Lake, Tanners Lake, Kohlman Lake and Owasso Lake. Eric moved on to discuss creek water quality monitoring. Eric provided details of the samples and measurements that are collected as well as the sample collection timeline. Eric proceeded to provide information on the 2024 state standards for creeks and details on the creeks that were not meeting the 2024 state standards. Eric went on to discuss the 10-year creek trend analysis. Eric continued on to discuss BMPs starting with the alum plant. Eric provided details of the alum plant noting that it was in the Tanners Lake subwatershed. Eric noted that the average total phosphorus (TP) removed in 2024 had been 52% while the TP reduction from 1998 to present was 70%. Eric provided information on why there was a decrease of TP removal in the last few years and explained the steps taken to fine tune the system. Eric went on to discuss the Frost Kennard spentlime chamber in the Wakefield Lake subwatershed. Eric provided details of what the spentlime chamber is and how it is utilized. Eric noted that an over TP reduction of 63%, total suspended solids (TSS) reduction of 88% and orthophosphate(ortho) removal of 27% since monitoring began in 2019. The next BMP Eric discussed was the Willow Pond continuous monitoring and adaptive control (CMAC.) Eric stated that the Willow Pond CMAC was in the Bennet Lake subwatershed. Eric explained how the CMAC system is used, noting that it is highly programable. Eric noted some hardware issues that had occurred since the installation. Eric stated that after 3 rounds of testing in 2024 there had been a 26% reduction in TP, 13% reduction on ortho and 36% reduction in TSS, showing a trend of improvement. Eric moved on to discuss the Wakefield Lake experimental iron and granite sand filter. Eric provided information on the use of the iron and granite sand filter. Eric gave details of the TP, TSS, and ortho removal, noting a larger percentage of removal was seen after a media change in 2022. Eric went on to discuss the Woodlyn Rain Garden Iron-Enhanced Sand Filter located in the Kohlman Lake subwatershed and provided details of the iron-enhanced sand filter. Eric noted over TP removal was 58%, Ortho removal was 54% and TSS removal was at 88%. Eric continued on to discuss the Arbogast CC17 filter, which was installed in 2023 with monitoring beginning in 2024. Eric stated the 2024 removal rates were 47% TP, 11% ortho, and 93% TSS. Eric noted that due to large amounts of sediment the filter would need regular cleaning. Eric went on to highlight the tree trench synthetic storm that took place at Maplewood Mall. Eric explained details of the synthetic storm noting that 15,575 gallons had been pumped into a portion of the tree trench system with calculated run off of 2,460 gallons with the system storing 13,000 gallons between two tree trenches. Eric continued on to discuss the Fish Creek and Battle Creek study. Eric reviewed the impairments and stressors found in both creeks, which included chloride, E.Coli, "non-support" of aquatic life and TSS. Eric provided details of the samples being taken and stated that the goal of the study was to find out what was causing the impairment in the creeks. Eric

went on to discuss chloride and PFAS monitoring being conducted throughout the District. Eric provided details of the monitoring process and noted how the sampling sites were chosen.

The Board expressed appreciation for the water quality monitoring update.

B. <u>RWMWD Watershed Management Tools Memo</u> (2:10:46)

No comments.

11. ADMINISTRATOR'S REPORT (2:14:42)

A. Meetings Attended

No comments.

B. Upcoming Meetings and Dates

No comments.

C. Staff Anniversaries

No comments.

D. Board Action Log

No comments.

E. Minnesota Watersheds Updates

No comments.

12. PROJECT AND PROGRAM STATUS REPORTS (2:16:45)

Project Feasibility Studies

- A. <u>Manufactured Homes Resilience Evaluation</u>
- B. Evaluation of Compliance with South Metro Mississippi River TSS TMDL
- C. <u>Street Sweeping</u>
- D. <u>Interim Emergency Response Plans</u>
- E. Roseville Central Park Flood Risk Reduction Feasibility Study
- F. Stormwater Model Updates

Monitoring Water Quality/Project Monitoring

- G. <u>Annual Water Quality Report Assistance</u>
- H. Special Project BMP Monitoring

Planning

I. <u>Watershed Management Plan Update: Phase 1- Stakeholder Engagement</u>

Lake Studies and TMDL Reports

J. 2025 Grant Applications

Research Projects

K. <u>New-Technology Mini Case Studies</u>

President Eisele stated that he found that the bio-char to be very intriguing and would like to learn more about its use. .

Manager Wang provided additional information on bio-char that she learned at the Washington County Consortium.

Project Operations

- L. <u>Lake-Level Station Maintenance and Rain Gauge Installation</u>
- M. <u>Lake-Level Station Forecast Integration</u>

Capital Improvements

- N. Roosevelt Homes
- O. Targeted Retrofit Projects 2025
- P. <u>Stewardship Grant Program</u>
- Q. Pioneer Park Stormwater Reuse
- R. Fish Creek Tributary Improvements
- S. Cottage Place Wetland Restoration

Manager Gernes requested more information on the status of the grading.

Dave Vlasin stated that black dirt would be brought in for planting with sifting and raking occurring to remove rock.

- T. <u>County Road C Culvert Replacement</u>
- U. Kohlman Creek Improvements
- V. <u>Lake Wabasso Outlet Replacement</u>

President Eisele requested more information on the foot bridge removal at Lake Wabasso.

Dave Vlasin stated that the foot bridge was located on private property and the removal had been requested by the property owner.

W. Kohlman Lake Alum Treatment

CIP Project Repair and Maintenance

- X. Routine CIP Inspections and Unplanned Maintenance Identification
- Y. <u>2025 CIP Maintenance and Repairs</u>
- Z. <u>Beltline Long-Term Fix Near River Outfall</u>

President Eisele asked if a response had been received from the St. Paul Port Authority.

Paige Ahlborg stated that a positive response had been received with a request to defer the reimbursement payment to 2026.

AA. <u>Beltline and Battle Creek Storm Sewer Five-Year Inspection</u>

Program Updates

- BB. <u>Natural Resources Program</u>
- CC. Communications and Outreach Program
- DD. <u>Citizen Advisory Committee</u>

13. MANAGER COMMENTS AND NEXT MONTH'S MEETING (2:26:41)

14. ADJOURN

Motion: Manager Karp moved, Manager Gernes seconded, to adjourn the meeting at 8:45 p.m.

Motion carried unanimously.

RWMWD BUDGET STATUS REPORT Administrative & Program Budget Fiscal Year 2025

1 100ai 10ai 202
5/31/2025
Budget Catego

5/31/2025							_	
					Current		Current	
		Account	Original	Budget	Month	Year-to-Date	Budget	Percent
Budget Category	Budget Item	Number	Budget	Transfers	Expenses	Expenses	Balance	of Budget
Manager	Per Diems	4355	\$7,000.00	-	-	1,800.00	\$7,000.00	25.71%
	Manager Expenses	4360	3,000.00	-	-	-	3,000.00	0.00%
Committees	Committee/Bd Mtg. Exp.	4365	4,000.00	-	34.83	851.54	3,148.46	21.29%
	Sub-Total: Managers/Committees:		\$14,000.00	\$0.00	34.83	2,651.54	\$13,148.46	18.94%
Employees	Staff Salary/Taxes/Benefits	4010	2,100,000.00	-	149,182.86	693,652.04	1,406,347.96	33.03%
	Employee Expenses	4020	10,000.00	-	409.22	1,023.12	8,976.88	10.23%
	District Training & Education	4350	75,000.00	-	170.00	13,040.42	61,959.58	17.39%
	Sub-Total: Employees:		\$2,185,000.00	\$0.00	149,762.08	707,715.58	\$1,477,284.42	32.39%
Administration/	Data Base/GIS Maintenance	4170	25,000.00	-	683.86	2,458.55	22,541.45	9.83%
Office	Telephone	4310	2,000.00	-	232.38	1,161.90	838.10	58.10%
	Office Supplies	4320	7,000.00	-	378.87	1,356.23	5,643.77	19.37%
	Postage/Delivery	4330	2,000.00	-	89.76	1,999.30	0.70	99.97%
	Printing/Copying	4335	5,000.00	-	425.98	2,164.12	2,835.88	43.28%
	Dues & Publications	4338	20,000.00	-	-	15,653.00	4,347.00	78.27%
	Janitorial/Trash Service	4341	30,000.00	-	1,558.17	9,218.35	20,781.65	30.73%
	Utilities	4342	20,000.00	-	237.80	2,770.03	17,229.97	13.85%
	Building Maintenance	4343	80,000.00	-	2,055.51	15,127.87	64,872.13	18.91%
	Miscellaneous	4390	5,000.00	-	· -	-	5,000.00	0.00%
	Insurance	4480	70,000.00	_	12,892.00	63,465.67	6,534.33	90.67%
	Office Equipment	4703	50,000.00	_	-	6,967.39	43,032.61	13.93%
	District Vehicles/Maintenance	4810-40	60,000.00	_	1,108.38	50,760.50	9,239.50	84.60%
	Metro INET	4325	110,000.00	_	9,886.74	44,995.16	65,004.84	40.90%
	Sub-Total: Administration/Office:		\$486,000.00	-	29,549,45	218.098.07	\$267,901.93	44.88%
Consultants/	Auditor/Accounting	4110	80,000.00	-	35,394.20	54,184.62	25,815.38	67.73%
Outside Services	Engineering-Administration	4121	122,000.00	_	7,624.00	45,572.50	76,427.50	37.35%
0 410.40	Engineering-Permit I&E	4122	10,000.00	_	1,044.00	2,682.50	7,317.50	26.83%
	Engineering-Review	4123	80,000.00	_	6,164.50	32,209.50	47,790.50	40.26%
	Engineering-Permit Application Review	4124	70,000.00	_	5,775.00	32,357.00	37,643.00	46.22%
	Project Feasibility Studies	4129	400,000.00	_	12,271.50	30,097.50	369,902.50	7.52%
	Attorney-Permits	4130	5,000.00	_	12,271.00	-	5,000.00	0.00%
	Attorney-General	4131	40,000.00	_	1,670.00	8,474.00	31,526.00	21.19%
	Outside Consulting Services	4160	40,000.00	_	1,070.00	0,474.00	40,000.00	0.00%
	Sub-Total: Consultants/Outside Services:	4100	\$847,000.00	\$0.00	69,943.20	205,577.62	\$641,422.38	24.27%
Programs	WMP/Lakes/TMDLs/Grants	4661	378,500.00	-	4,194.50	20,687.18	357,812.82	5.47%
i rogiams	Natural Resources Program	4670	161,000.00	_	26,614.88	28,644.87	132,355.13	17.79%
	Water Monitoring Program	4520-30	513,000.00		21,979.56	72,420.36	440,579.64	14.12%
	Outside Program Support	4683	42,000.00	_	4,000.00	22,325.00	19,675.00	53.15%
	Research Projects	4695	125,000.00	-	491.50	14,800.00	110,200.00	11.84%
	Project Operations	4650	150,000.00		21,220.66	47,754.56	102,245.44	31.84%
	Communication/Outreach/Events	4371	166,000.00	-	18,356.82	55,322.17	110,677.83	33.33%
	Health and Safety Program	4697	7,000.00	-	1,703.62	2,015.95	4,984.05	28.80%
	, 0	4097	,	\$0.00	,		,	
OFNEDAL FUND T	Sub-Total: Programs:		\$1,542,500.00	\$0.00	98,561.54	263,970.09	\$1,278,529.91	17.11%
GENERAL FUND T		516	\$5,074,500.00 2,180,000.00	\$0.00	347,851.10 299,737.92	1,398,012.90	3,678,287.10 428,542.40	27.55% 80.34%
CIPS	Project Repair & Maintenance			-	· ·	1,751,457.60	· ·	
	Targeted Retrofit Projects	518	1,185,000.00	-	15,331.20	171,585.55	1,013,414.45	14.48%
	Flood Risk Reduction Fund	520	1,255,000.00	-	77,877.10	235,440.42	1,019,559.58	18.76%
	Debt Services-Beltline/Maplewood Mall	526	410,459.00			281,252.55	129,206.45	68.52%
	Stewardship Grant Fund	529	1,250,000.00	-	2,196.00	94,200.86	1,155,799.14	7.54%
	Fish Creek Tributary Improvements	537	1,400,000.00	-	6,543.50	11,586.50	1,388,413.50	0.83%
015 BUD 6 == = -	Wetland Restoration Projects	540	350,000.00	-	112,528.36	124,895.46	225,104.54	35.68%
CIP BUDGET TOTA	AL .		\$8,030,459.00	-	514,214.08	2,670,418.94	\$5,360,040.06	33.25%
TOTAL BUDGET			\$13,104,959.00	\$0.00	862,065.18	4,068,431.84	\$9,036,527.16	31.04%

Current Fund Balances:						
						Unaudited
	Unaudited Beginning Fund	Fund	Year to date	Current Month	Year to Date	Fund Balance
Fund:	Balance @ 12/31/24	Transfers	Revenue	Expenses	Expense	@ 4/30/25
101 - General Fund	\$2,404,392.68	-	160,599.27	347,851.10	1,398,012.90	1,166,979.05
516 - Project Repair & Maintenance	1,067,070.34	-	8,114.97	299,737.92	1,751,457.60	(676,272.29)
518 - Targeted Retrofit Projects	207,282.11	-	0.02	15,331.20	171,585.55	35,696.58
520 - Flood Risk Reduction Fund	5,121,388.23	-	636,271.78	77,877.10	235,440.42	5,522,219.59
526 - Debt Services-Beltline/Maplewood Mall	295,132.28	-	-	-	281,252.55	13,879.73
529 - Stewardship Grant Fund	(89,787.37)	-	40,000.00	2,196.00	94,200.86	(143,988.23)
536 - Stormwater Impact Fund	528,386.61	-	46,250.00	-	9,226.75	565,409.86
537 - Fish Creek Tributary Improvements	492,497.85	-	115,091.00	6,543.50	11,586.50	596,002.35
540 - Wetland Restoration Projects	535,264.57	-	-	112,528.36	124,895.46	410,369.11
580 - Contingency Fund	1,215,487.00	-	-	-	-	1,215,487.00
Total District Fund Balance	\$11,777,114.30	\$0.00	\$ 1,006,327.04	\$ 862,065.18	\$4,077,658.59	\$8,705,782.75

Ramsey Washington Metro Watershed Dist. Check Register For the Period From May 1, 2025 to May 31, 2025

Date	Check #	Payee ID	Payee	Invoice #	Description	Amount
05/19/25	EFT	min022	MN DNR Ecological & Water Resources	2025-1279	Construction Improvements/Project Maint & Repair	\$1,500.00
05/07/25	EFT	hea002	HealthPartners	Jun-25	Employee Benefits	13,083.78
05/01/25	EFT	met008	MetLife-Group Benefits	May-25	Employee Benefits	1,852.02
05/20/25	EFT	usb002	U.S. Bank	May 2025 Statement	Various	11,181.67
05/09/25	EFT	tmo001	T-Mobile	May-25	Employee Benefits	747.02
05/23/25	EFT	qwe001	CenturyLink	May-25	Project Operations	283.63
05/05/25	EFT	nsp001	Xcel Energy	May-25	Water Monitoring Program	753.75
05/14/25	EFT	nsp001	Xcel Energy	May-25	Project Operations	10.62
05/14/25	EFT	pit002	Pitney Bowes	May-25	Postage/Delivery	53.94
05/09/25	EFT	ada002	Adam's Pest Control	May-25	Building/Site Maintenance	200.80
05/26/25	EFT	ups001	United Parcel Service	May-25	Postage/Delivery	35.82
05/01/25	75419	san003	Sandstrom Land Management	41225	Construction Improvements/Project Maint & Repair	8,512.50
05/01/25	75420	was002	Washington Conservation District	6947	Outside Program Support	4,000.00
05/17/25	75421	all006	All State Communications	350824	Building/Site Maintenance	825.00
05/17/25	75422	aws001	AWS Service Center	S1335957-050125	Janitorial/Trash/Plowing/Sweeping	360.73
05/17/25	75423	bfg001	BFG Supply Co., LLC	2930809-00	Communications/Outreach/Events	54.39
05/17/25	75424	dnr001	Dept of Natural Resources	2025-1279	Construction Improvements/Project Maint & Repair	1,500.00
05/17/25	75424V	dnr001	Dept of Natural Resources	2025-1279	Construction Improvements/Project Maint & Repair	(1,500.00)
05/17/25	75425	han008	Hanna Enterprises, LLC	3498	Janitorial/Trash/Plowing/Sweeping	210.00
05/17/25	75426	hom001	Home Depot Credit Services	04/28/25	Water Monitoring Program	215.47
05/17/25	75427	inn002	Innovative Office Solutions LLC	IN4828891	Office Supplies	182.16
05/17/25	75428	met012	Metro-INET	2663; 2664; 2665	Roseville IT Services/Web Site/Software/Licenses	9,880.82
05/17/25	75429	ncp001	NCPERS Group Life Ins.	May 1,2025	Accounting	16.00
05/17/25	75430	ons001	Onset Computer Corporation	303767	Water Monitoring Program	358.52
05/17/25	75431	pac001	Pace Analytical Services, Inc.	45802	Water Monitoring Program	3,754.00
05/17/25	75432	ram017	Ramy Turf	112550	Natural Resources Program	334.88
05/17/25	75433	rmb001	RMB Environmental Laboratories	B016768	Water Monitoring Program	140.00
05/17/25	75434	stu001	Studio Lola	2020048; 2020051-revised	Communications/Outreach/Events	3,186.91
05/17/25	75435	urb001	Urban Roots	Stage 2 payment	Construction Improvements/Project Maint & Repair	5,000.00
05/17/25	75436	usb005	US Bank Equipment Finance	554693424	Printing/Copier Lease	425.98
05/28/25	75437	att002	AT & T Mobility - ROC	287256653401X05252025	Project Operations	163.34
05/28/25	75438	bar001	Barr Engineering	April 19 through May 16, 2025	Various	133,583.74
05/28/25	75439	bat003	Batteries Plus	P82733248	Vehicle Maintenance	249.10
05/28/25	75440	car007	Carp Solutions, LLC	RWMWD 050625	Natural Resources Program	21,620.00
05/28/25	75441	dav003	Davey Resource Group, Inc.	9000109465	Construction Improvements/Project Maint & Repair	3,797.75
05/28/25	75442	dim001	Dimke Excavating, Inc.	Progress Payment #2	Construction/Improvements-Wetland Restoration Proj.	112,528.36
05/28/25	75443	edg001	Edge Ecosystems LLC	1190	Natural Resources Program	3,983.00
05/28/25	75444	fit001	Fitzgerald Excavating & Trucking, Inc.	Progress Payment #4	Construction Improvements/Project Maint & Repair	89,145.50
05/28/25	75445	fit002	Mary Fitzgerald	45802	Employee Expenses	513.00
05/28/25	75446	fit003	Emily F. Kamin	105	Janitorial/Trash/Plowing/Sweeping	525.00
05/28/25	75447	gal001	Galowitz Olson, PLLC	May 22, 2025	Attorney-General	1,670.00
05/28/25	75448	haw001	Hawkins, Inc.	7077529	Project Operations	9,024.40
05/28/25	75449	hea003	Heartquest Trainers, LLC	3468	Health & Safety Program	1,601.32
05/28/25	75450	her002	Sally J. Herman	April/May 2025	Employee Expenses	88.69
05/28/25	75451	inn002	Innovative Office Solutions LLC	IN4840005; IN4846126	Building/Site Maintenance	319.23
05/28/25	75452	int001	Office of MN IT Services	W25040543	Telephone	59.38
05/28/25	75453	lea001	League of MN Cities Ins. Trust WC	05/02/2025	Insurance	12,892.00
05/28/25	75454	lea003	L. Tracy Leavenworth	17-1006	Communications/Outreach/Events	7,636.01
05/28/25	75455	mel001	Michelle L. Melser	May 2025	Employee Expenses	81.82
05/28/25	75456	met005	Metro Blooms	3056	Communications/Outreach/Events	2,000.00
05/28/25	75457	mil005	Jule C. Miley	May-25	Employee Expenses	102.76
05/28/25	75458	min003	Minger Construction Co., Inc.	Progress Payment #5	Construction Improvements/Project Maint & Repair	162,800.31
05/28/25	75459	ols004	Nicholas E. Olson	April 2025	Employee Expenses	70.09
05/28/25	75460	pac001	Pace Analytical Services, Inc.	25100486014; 86396; 82585	Water Monitoring Program	3,457.00
05/28/25	75461	pre003	Premium Waters, Inc.	310768400	Utilities/Building Services Contracts	37.00
05/28/25	75462	red002	Redpath & Company	150497292	Accounting	35,187.50
05/28/25	75463	rou003	Tyler R. Routhe	April 2025	Employee Expenses	21.70
05/28/25	75464	sai001	Saint Paul Media	06/01/2025	Communications/Outreach/Events	100.00
05/28/25	75465	sch009	Schlomka Services, LLC	34567	Construction Improvements/Project Maint & Repair	912.50
05/28/25	75466	sel001	Tim Melser	1528	Building/Site Maintenance	150.00
05/28/25		sho004	Shoreline Landscaping	Pay Application #1	Construction-Flood Damage Reduction Fund	54,721.98
05/28/25	75467 75468		Nicole Maras			18.90
U2/40/43	75468 75469	sod001	Uline	May-25 192689816	Employee Expenses Communications/Outreach/Events	
		uli001	UIIIC	192089810	Communications/Outreach/EVents	46.60
05/28/25			HC Douls Voyagon Elect Con-	0602024222521	Vahiala Eval	526.02
	75470 75471	voy001 was002	US Bank Voyager Fleet Sys. Washington Conservation District	8692934232521 7002	Vehicle Fuel Stewardship Grant Program	526.03 2,143.50

Total <u>\$728,937.92</u>

Ramsey Washington Metro Watershed Dist. Check Register For the Period From May 1, 2025 to May 31, 2025

Date	Check #	Payee ID	Payee	Invoice #	Description	Amount
05/09/25	EFT	myp001	May 9th Payroll	04/11/25	4110-101-000	94.15
05/23/25	EFT	myp001	May 23rd Payroll	04/25/25	4110-101-000	96.55
05/09/25	Dir.Dep.		May 9th Payroll	Payroll Expense-Net	4010-101-000	36,386.29
05/09/25	EFT	int002	May 9th Federal Withholding	Internal Rev.Serv.	2001-101-000	12,965.18
05/09/25	EFT	mnd001	May 9th State Withholding	MN Revenue	2003-101-000	2,221.67
05/09/25	EFT	per001	May 9th PERA	PERA	2011-101-000	7,239.77
05/09/25	EFT	emp002	Employee Def. Comp. Contributions	Empower Retirement	2016-101-000	1,843.00
05/09/25	EFT	emp002	Employee IRA Contributions	Empower Retirement	2018-101-000	2,149.00
05/23/25	Dir.Dep.		May 9th Payroll	Payroll Expense-Net	4010-101-000	36,334.15
05/23/25	EFT.	int002	May 9th Federal Withholding	Internal Rev.Serv.	2001-101-000	12,918.55
05/23/25	EFT	mnd001	May 9th State Withholding	MN Revenue	2003-101-000	2,207.42
05/23/25	EFT	per001	May 9th PERA	PERA	2011-101-000	7,081.12
05/23/25	EFT	emp002	Employee Def. Comp. Contributions	Empower Retirement	2016-101-000	1,843.00
05/23/25	EFT	emp002	Employee IRA Contributions	Empower Retirement	2018-101-000	2,149.00
					Payroll/Benefits:	\$125,528.85
	Total				Accounts Payable/Payroll/Benefits:	\$854,466.77

Cash Disbursements Journal

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Date	Check #	Vendor ID	Name	Account ID	Description	Amount	
05/19/25	EFT	min022	MN DNR Ecological & Water Resources	4630-516-000	Construction Improvements/Project Maint & Repair	\$1,500.00	
05/07/25	EFT	hea002	HealthPartners	4040-101-000	Employee Benefits	13,083.78	
05/01/25	EFT	met008	MetLife-Group Benefits	4040-101-000	Employee Benefits	1,852.02	
05/20/25	EFT	usb002	U.S. Bank			11,181.67	
				4650-101-000	Project Operations	•	163.74
				4343-101-000	Building and Site Maintenance		8.20
				4343-101-000	Building and Site Maintenance		28.87
				4343-101-000	Building and Site Maintenance		21.75
				4325-101-000	Roseville IT Services/Web Site/Software/License		78.93
				4320-101-000	Office Supplies		(7.83)
				4670-101-000	Natural Resources Program		(65.67)
				4670-101-000	Natural Resources Program		(68.90)
				4350-101-000	Training and Education		170.00
				4650-101-000	Project Operations		9.49
				4040-101-000	Employee Benefits		160.65
				4530-101-000	Water Monitoring Program		473.00
				4530-101-000	Water Monitoring Program		356.00
				4371-101-000	Communications/Outreach/Events		9.67
				4840-101-000	Vehicle Miscellaneous Expense		39.95
				4170-101-000	Data Base/GIS Maintenance		168.00
				4840-101-000	Vehicle Miscellaneous Expense		216.73
				4040-101-000	Employee Benefits		172.85
				4341-101-000	Janitorial/Trash/Plowing/Sweeping		12.44
				4325-101-000	Roseville IT Services/Web Site/Software/License:		99.99 5.39
				4840-101-000	Vehicle Miscellaneous Expense		10.99
				4840-101-000 4371-101-000	Vehicle Miscellaneous Expense Communications/Outreach/Events		2,020.00
				4670-101-000	Natural Resources Program		39.95
				4320-101-000	Office Supplies		9.00
				4650-101-000	Project Operations		23.97
				4343-101-000	Building and Site Maintenance		145.00
				4650-101-000	Project Operations		112.99
				4040-101-000	Employee Benefits		103.90
				4670-101-000	Natural Resources Program		15.33
				4670-101-000	Natural Resources Program		240.00
				4371-101-000	Communications/Outreach/Events		139.98
				4530-101-000	Water Monitoring Program		19.15
				4530-101-000	Water Monitoring Program		688.29
				4371-101-000	Communications/Outreach/Events		66.00
				4530-101-000	Water Monitoring Program		398.00
				4371-101-000	Communications/Outreach/Events		884.56
				4320-101-000	Office Supplies		7.83
				4840-101-000	Vehicle Miscellaneous Expense		37.99
				4343-101-000	Building and Site Maintenance		34.46
				4371-101-000	Communications/Outreach/Events		319.99
				4670-101-000	Natural Resources Program		120.00
				4530-101-000	Water Monitoring Program		218.44
					5 5		

Cash Disbursements Journal

Date	Check #	Vendor ID	Name	Account ID	Description	Amount	
					F		
				4371-101-000	Communications/Outreach/Events		188.05
				4371-101-000	Communications/Outreach/Events		450.00
				4320-101-000	Office Supplies		8.97
				4371-101-000	Communications/Outreach/Events		23.99
				4040-101-000	Employee Benefits		103.90
				4371-101-000	Communications/Outreach/Events		32.99
				4371-101-000	Communications/Outreach/Events		151.00
				4371-101-000	Communications/Outreach/Events		11.99
				4530-101-000	Water Monitoring Program		264.05
				4371-101-000	Communications/Outreach/Events		37.09
				4670-101-000	Natural Resources Program		134.57
				4670-101-000	Natural Resources Program		134.57
				4320-101-000	Office Supplies		188.34
				4371-101-000	Communications/Outreach/Events		79.96
				4371-101-000	Communications/Outreach/Events		89.99
				4530-101-000	Water Monitoring Program		162.50
				4371-101-000	Communications/Outreach/Events		60.00
				4371-101-000	Communications/Outreach/Events		45.00
				4371-101-000	Communications/Outreach/Events		34.99
				4371-101-000	Communications/Outreach/Events		189.99
				4650-101-000	Project Operations		174.48
				4371-101-000	Communications/Outreach/Events		308.72
				4342-101-000	Utilitieis/Building Services Contracts		200.80
				4371-101-000	Communications/Outreach/Events		129.99
				4697-101-000	Health & Safety Program		55.74
				4697-101-000	Health & Safety Program		46.56
				4371-101-000	Communications/Outreach/Events		58.96
				4343-101-000	Building and Site Maintenance		40.26
				4365-101-000	Committee/Board Meeting Expenses		34.83
				4840-101-000	Vehicle Miscellaneous Expense		10.00
				4343-101-000	Building and Site Maintenance		4.38
				4320-101-000	Office Supplies		12.58
				4170-101-000	Data Base/GIS Maintenance		3.36
05/09/25	EFT	tmo001	T-Mobile	4040-101-000	Employee Benefits	747.02	3.50
05/23/25	EFT	gwe001	CenturyLink	4650-101-000	Project Operations	283.63	
05/05/25	EFT	nsp001	Xcel Energy	4030-101-000	Toject Operations	753.75	
03/03/23	LIT	пъроот	Acci Energy	4343-101-000	Building and Site Maintenance	133.13	252.02
				4530-101-000	Water Quality Monitoring Program		305.11
				4650-101-000	Project Operations		196.62
05/14/25	EET	nan001	Xcel Energy	4650-101-000	Project Operations Project Operations	10.62	190.02
05/14/25	EFT EFT	nsp001	Pitney Bowes	4330-101-000	3 1	53.94	
05/09/25	EF I EFT	pit002 ada002	Adam's Pest Control	4343-101-000	Postage/Delivery Building/Site Maintenance	200.80	
05/26/25	EF I EFT		United Parcel Service	4330-101-000		35.82	
		ups001			Postage/Delivery Construction Improvements/Project Maint & Panair		
05/01/25	75419 75420	san003	Sandstrom Land Management	4630-516-000	Construction Improvements/Project Maint & Repair	8,512.50	
05/01/25	75420 75421	was002	Washington Conservation District	4683-101-000	Outside Program Support	4,000.00	
05/17/25	75421 75422	all006	All State Communications	4343-101-000	Building/Site Maintenance	825.00	
05/17/25	75422	aws001	AWS Service Center	4341-101-000	Janitorial/Trash/Plowing/Sweeping	360.73	

Cash Disbursements Journal

Date	Check #	Vendor ID	Name	Account ID	Description	Amount	
Date	CHCK#	, chaoi 1D	- I WHILE	Account ID	Description	mount	_
05/17/25	75423	bfg001	BFG Supply Co., LLC	4371-101-000	Communications/Outreach/Events	54.39	
05/17/25	75424	dnr001	Dept of Natural Resources	4630-516-000	Construction Improvements/Project Maint & Repair	1,500.00	
05/17/25	75424V	dnr001	Dept of Natural Resources	4630-516-000	Construction Improvements/Project Maint & Repair	(1,500.00)	
05/17/25	75425	han008	Hanna Enterprises, LLC	4341-101-000	Janitorial/Trash/Plowing/Sweeping	210.00	
05/17/25	75426	hom001	Home Depot Credit Services			215.47	
				4530-101-000	Water Monitoring Program		88.32
				4670-101-000	Natural Resources Program		127.15
05/17/25	75427	inn002	Innovative Office Solutions LLC			182.16	
				4040-101-000	Employee Benefits		22.18
				4320-101-000	Office Supplies		159.98
05/17/25	75428	met012	Metro-INET			9,880.82	40 707 00
				4325-101-000	Roseville IT Services/Web Site/Software/License		\$9,707.82
				4310-101-000	Telephone		\$173.00
05/17/25	75429	ncp001	NCPERS Group Life Ins.	4110-101-000	Accounting	16.00	
05/17/25	75430	ons001	Onset Computer Corporation	4530-101-000	Water Monitoring Program	358.52	
05/17/25	75431	pac001	Pace Analytical Services, Inc.	4530-101-000	Water Monitoring Program	3,754.00	
05/17/25	75432	ram017	Ramy Turf	4670-101-000	Natural Resources Program	334.88	
05/17/25	75433	rmb001	RMB Environmental Laboratories	4530-101-000	Water Monitoring Program	140.00	
05/17/25	75434	stu001	Studio Lola	4630-516-000	Communications/Outreach/Events	3,186.91	
05/17/25	75435	urb001	Urban Roots	4371-101-000	Construction Improvements/Project Maint & Repair	5,000.00	
05/17/25	75436	usb005	US Bank Equipment Finance	4335-101-000	Printing/Copier Lease	425.98	
05/28/25	75437	att002	AT & T Mobility - ROC	4650-101-000	Project Operations	163.34	
05/28/25	75438	bar001	Barr Engineering	4121 101 000	Tariar da Alada	133,583.74	7 (24 00
				4121-101-000	Engineering Admin		7,624.00
				4123-101-000 4129-101-000	Engineering Review Project Feasability		6,164.50 2,040.00
				4129-101-000	Project Feasability Project Feasability		1,896.00
				4129-101-000	Project Feasability		297.50
				4129-101-000	Project Feasability		825.50
				4129-101-000	Project Feasability		4,997.50
				4129-101-000	Project Feasability		2,215.00
				4170-101-000	Data Base/GIS Maintenance		512.50
				4520-101-000	WOM-Engineering		1,419.00
				4520-101-000	WQM-Engineering		1,393.50
				4520-101-000	WQM-Engineering		4,518.00
				4520-101-000	WQM-Engineering		78.60
				4520-101-000	WQM-Engineering		3,888.08
				4122-101-000	Engineering Permit I&E		1,044.00
				4124-101-000	Eng. Permit Review		5,775.00
				4661-101-000	SLMP/TMDL Studies		4,194.50
				4695-101-000	Research Projects		327.50
				4695-101-000	Research Projects		164.00
				4650-101-000	Project Operations		7,583.50
				4650-101-000	Project Operations		750.00
				4650-101-000	Project Operations		2,920.50
				4128-518-000	Engineering -Targeted Retrofit		3,579.70
				4128-518-000	Engineering -Targeted Retrofit		5,898.50
					-		

Cash Disbursements Journal

Date	Check #	Vendor ID	Name	Account ID	Description	Amount	
				4682-529-000	Stewardship Grant Program		52.50
				4128-518-000	Engineering -Targeted Retrofit		673.10
				4129-537-000	Driveway Fish Creek Tributary		6,543.50
				4128-518-000	Engineering -Targeted Retrofit		4,303.90
				4128-520-000	Engineering -Flood Damage		165.00
				4128-520-000	Engineering -Flood Damage		12,125.50
				4128-520-000	Engineering -Flood Damage		10,668.00
				4128-518-000	Engineering -Targeted Retrofit		570.00
				4128-518-000	Engineering -Targeted Retrofit		306.00
				4128-516-000	Eng. Projects-Maint & Repair		2,546.88
				4128-516-000	Eng. Projects-Maint & Repair		6,512.10
				4128-516-000	Eng. Projects-Maint & Repair		5,350.00
				4128-516-000	Eng. Projects-Maint & Repair		13,660.38
05/28/25	75439	bat003	Batteries Plus	4820-101-000	Vehicle Maintenance	249.10	
05/28/25	75440	car007	Carp Solutions, LLC	4670-101-000	Natural Resources Program	21,620.00	
05/28/25	75441	dav003	Davey Resource Group, Inc.	4630-516-000	Construction Improvements/Project Maint & Repair	3,797.75	
05/28/25	75442	dim001	Dimke Excavating, Inc.	4630-540-000	Construction/Improvements-Wetland Restoration Projects	112,528.36	
05/28/25	75443	edg001	Edge Ecosystems LLC	4670-101-000	Natural Resources Program	3,983.00	
05/28/25	75444	fit001	Fitzgerald Excavating & Trucking, Inc.	4630-516-000	Construction Improvements/Project Maint & Repair	89,145.50	
05/28/25	75445	fit002	Mary Fitzgerald			513.00	
				4020-101-000	Employee Expenses		63.00
				4341-101-000	Janitorial/Trash/Plowing/Sweeping		450.00
05/28/25	75446	fit003	Emily F. Kamin	4341-101-000	Janitorial/Trash/Plowing/Sweeping	525.00	
05/28/25	75447	gal001	Galowitz Olson, PLLC	4131-101-000	Attorney-General	1,670.00	
05/28/25	75448	haw001	Hawkins, Inc.	4650-101-000	Project Operations	9,024.40	
05/28/25	75449	hea003	Heartquest Trainers, LLC	4697-101-000	Health & Safety Program	1,601.32	
05/28/25	75450	her002	Sally J. Herman	4020-101-000	Employee Expenses	88.69	
05/28/25	75451	inn002	Innovative Office Solutions LLC	4343-101-000	Building/Site Maintenance	319.23	
05/28/25	75452	int001	Office of MN IT Services	4310-101-000	Telephone	59.38	
05/28/25	75453	lea001	League of MN Cities Ins. Trust WC	4480-101-000	Insurance	12,892.00	
05/28/25	75454	lea003	L. Tracy Leavenworth	4371-101-000	Communications/Outreach/Events	7,636.01	
05/28/25	75455	mel001	Michelle L. Melser	4020 101 000	F 1 F	81.82	56.20
				4020-101-000	Employee Expenses Building/Site Maintenance		56.28 25.54
05/28/25	75456	met005	Metro Blooms	4343-101-000 4371-101-000	Communications/Outreach/Events	2,000.00	23.34
05/28/25	75450 75457	mil005	Jule C. Miley	4020-101-000	Employee Expenses	102.76	
05/28/25	75457 75458	min003	Minger Construction Co., Inc.	4630-516-000	Construction Improvements/Project Maintenance & Repair	162,800.31	
05/28/25	75459	ols004	Nicholas E. Olson	4030-310-000	Construction improvements/1 roject Maintenance & Repair	70.09	
03/26/23	13439	015004	Nicholas E. Olson	4840-101-000	Vehicle Miscellaneous Expense	70.09	12.20
				4020-101-000	Employee Expenses		57.89
05/28/25	75460	pac001	Pace Analytical Services, Inc.	4530-101-000	Water Monitoring Program	3,457.00	31.09
05/28/25	75461	pre003	Premium Waters, Inc.	4342-101-000	Utilities/Building Services Contracts	37.00	
05/28/25	75462	red002	Redpath & Company	4110-101-000	Accounting	35,187.50	
05/28/25	75463	rou003	Tyler R. Routhe	4020-101-000	Employee Expenses	21.70	
05/28/25	75464	sai001	Saint Paul Media	4371-101-000	Communications/Outreach/Events	100.00	
05/28/25	75465	sch009	Schlomka Services, LLC	4630-516-000	Construction Improvements/Project Maintenance & Repair	912.50	
05/28/25	75466	sel001	Tim Melser	4343-101-000	Building/Site Maintenance	150.00	
	, 5 . 5 5	55.001			6		

Ramsey Washington Metro Watershed Dist. Cash Disbursements Journal

Date	Check #	Vendor ID	Name	Account ID	Description	Amount
05/28/25	75467	sho004	Shoreline Landscaping	4630-520-000	Construction-Flood Damage Reduction Func	54,721.98
05/28/25	75468	sod001	Nicole Maras	4020-101-000	Employee Expenses	18.90
05/28/25	75469	uli001	Uline	4371-101-000	Communications/Outreach/Events	46.60
05/28/25	75470	voy001	US Bank Voyager Fleet Sys.	4830-101-000	Vehicle Fuel	526.03
05/28/25	75471	was002	Washington Conservation District	4682-529-000	Stewardship Grant Program	2,143.50
	Total					<u>\$728,937.92</u>
05/09/25	EFT	myp001	May 9th Payroll	4110-101-000	May 9th Payroll	94.15
05/23/25	EFT	myp001	May 23rd Payroll	4110-101-000	May 23rd Payroll	96.55
05/09/25	Dir.Dep.		May 9th Payroll		May 9th Payroll	36,386.29
05/09/25	EFT	int002	May 9th Federal Withholding		May 9th Federal Withholding	12,965.18
05/09/25	EFT	mnd001	May 9th State Withholding	2003-101-000	May 9th State Withholding	2,221.67
05/09/25	EFT	per001	May 9th PERA		May 9th PERA	7,239.77
05/09/25	EFT	emp002	Employee Def. Comp. Contributions	2016-101-000	Employee Def. Comp. Contributions	1,843.00
05/09/25	EFT	emp002	Employee IRA Contributions	2018-101-000	Employee IRA Contributions	2,149.00
05/23/25	Dir.Dep.		May 23rd Payroll	4010-101-000	May 23rd Payroll	36,334.15
05/23/25	EFT	int002	May 23rd Federal Withholding	2001-101-000	May 23rd Federal Withholding	12,918.55
05/23/25	EFT	mnd001	May 23rd State Withholding	2003-101-000	May 23rd State Withholding	2,207.42
05/23/25	EFT	per001	May 23rd PERA		May 23rd PERA	7,081.12
05/23/25	EFT	emp002	Employee Def. Comp. Contributions	2016-101-000	Employee Def. Comp. Contributions	1,843.00
05/23/25	EFT	emp002	Employee IRA Contributions	2018-101-000	Employee IRA Contributions	2,149.00
					Payroll/Benefits:	\$125,528.85
	Total				Accounts Payable/Payroll/Benefits:	\$854,466.77



Summary of Professional Engineering Services During the Period April 19 through May 16, 2025

	1					
	Total Engineering Budget (2025)	Total Fees to Date (2025)	Budget Balance (2025)	Fees During Period	District Accounting Code	Plan Implementation Task Number
	(2020)	(2020)	(2020)	101100		rask Humber
Engineering Administration						
General Engineering Administration	\$96,600.00	\$45,473.50	\$51,126.50	\$7,624.00	4121-101	DW-13
RWMWD Health and Safety/ERTK Program (Training)	\$2,000.00 \$20,000.00	\$0.00 \$0.00	\$2,000.00	\$0.00 \$0.00	4697-101	DW-13 DW-11, DW-13
Education Assistance Targeted Retrofit Outreach, Assessment and Planning	\$20,000.00	\$99.00	\$20,000.00	\$0.00	4129-101 4121-101	DW-11, DW-13 DW-6, DW-13, DW-20
Talgeted Notion Cardaon, Accessment and Fallining	\$25,555.55	\$55.55	ΨΣ1,501.00	ψ0.00	4121 101	511 0, 511 10, 511 20
Engineering Review						
Engineering Review	\$78,750.00	\$32,209.50	\$46,540.50	\$6,164.50	4123-101	DW-13
Project Feasibility Studies						
Manufactured Homes Resilience Evaluation	\$20,000.00	\$3,004.50	\$16,995.50	\$2,040.00	4129-101	GC-3
Phalen Village Improvements	\$5,000.00	\$0.00	\$5,000.00	\$0.00	4129-101	DW-9
Evaluate compliance with South Metro Mississippi River TSS TMDL Street Sweeping	\$25,000.00 \$20,000.00	\$3,126.50 \$4,072.00	\$21,873.50 \$15,928.00	\$1,896.00 \$297.50	4129-101 4129-101	MR-2 DW-6, DW-15
Tanners, Battle Creek Lake, McKnight Basin outlet operation plan	\$35,000.00	\$0.00	\$35,000.00	\$0.00	4129-101	DW-9, DW-15
Interim Emergency Response Plans (Non-Beltline Areas)	\$30,000.00	\$1,032.00	\$28,968.00	\$825.50	4129-101	DW-19
Flood Risk Reduction feasibility study - 4th street North and 4th Street Place N (N of ABI)	\$75,000.00	\$0.00	\$75,000.00	\$0.00	4129-101	DW-9
Flood Risk Reduction feasibility study - Roseville Central Park	\$50,000.00	\$10,575.50	\$39,424.50	\$4,997.50	4129-101	DW-9
Stormwater Model Updates Studios Stormwing From Crock Wolks	\$50,000.00 \$30,000.00	\$8,287.00 \$0.00	\$41,713.00 \$30,000.00	\$2,215.00 \$0.00	4129-101 4129-101	DW-9 DW-1
Studies Stemming From Creek Walks Shoreline Assessment Assistance	\$30,000.00	\$0.00	\$20,000.00	\$0.00	4129-101 4129-101	DW-1 DW-8
Wetland Restoration Planning	\$20,000.00	\$0.00	\$20,000.00	\$0.00	4129-101	DW-8
Contingency*	\$20,000.00	\$0.00	\$20,000.00	\$0.00	4129-101	
GIS Maintenance						
GIS Maintenance	\$5,000.00	\$512.50	\$4,487.50	\$512.50	4170-101	DW-13
Manitoring Water Cuality/Drainet Manitoring						
Monitoring Water Quality/Project Monitoring Lake Water Quality Monitoring (Misc QA/QC)	\$10,000.00	\$3,003.50	\$6,996.50	\$1,419.00	4520-101	DW-2
Annual WQ Report Assistance	\$20,000.00	\$16,940.00	\$3,060.00	\$1,393.50	4520-101	DW-2
Special Project BMP Monitoring	\$30,000.00	\$11,915.50	\$18,084.50	\$4,518.00	4520-101	DW-12
Grass Lake Berm Wetland Monitoring	\$5,000.00	\$1,727.10	\$3,272.90	\$78.60	4520-101	DW-5, DW-8
Battle Creek and Fish Creek Monitoring	\$20,000.00	\$5,461.08	\$14,538.92	\$3,888.08	4520-101	DW-1, DW-2
Permit Processing, Inspection and Enforcement						
Permit Application Inspection and Enforcement Permit Application Review	\$10,000.00 \$70,000.00	\$2,682.50 \$32,357.00	\$7,317.50 \$37,643.00	\$1,044.00 \$5,775.00	4122-101 4124-101	DW-7
	ψ10,000.00	\$02,007.00	ψον,σ-ισ.σσ	ψο, 110.00	4124-101	511 7
Watershed Management Plan Update Ecosystem Restoration Plan (or "Ecosystem Health Action Plan") Placeholder	\$50,000.00	\$0.00	\$50,000.00	\$0.00	4661-101	DW-8, DW-14
WMP Update Phase 1- Stakeholder Engagement	\$47,000.00	\$22,043.00	\$24,957.00	\$4,194.50	4661-101	DW-13
WMP Update Phase 2- Complex Pre-Work	\$30,000.00	\$0.00	\$30,000.00	\$0.00	4661-101	D14/ 40
	\$30,000.00	ψ0.00			4001-101	DW-13
WMP Update Phase 3- Draft Plan Development	\$37,000.00	\$0.00	\$37,000.00	\$0.00	4661-101	DW-13
·			\$37,000.00			
Lake Studies/TMDL Reports	\$37,000.00	\$0.00		\$0.00	4661-101	DW-13
·			\$37,000.00 \$19,208.00 \$22,500.00			
Lake Studies/TMDL Reports 2025 Grant Applications	\$37,000.00 \$20,000.00	\$0.00 \$792.00	\$19,208.00	\$0.00 \$0.00	4661-101 4661-101	DW-13
Lake Studies/TMDL Reports 2025 Grant Applications Contingency for Lake Studies Research Projects	\$37,000.00 \$20,000.00 \$22,500.00	\$0.00 \$792.00 \$0.00	\$19,208.00 \$22,500.00	\$0.00 \$0.00 \$0.00	4661-101 4661-101 4661-101	DW-13
Lake Studies/TMDL Reports 2025 Grant Applications Contingency for Lake Studies Research Projects New Technology Mini Case Studies (average 6 per year)	\$37,000.00 \$20,000.00 \$22,500.00 \$15,750.00	\$0.00 \$792.00 \$0.00 \$10,489.00	\$19,208.00 \$22,500.00 \$5,261.00	\$0.00 \$0.00 \$0.00	4661-101 4661-101	DW-13
Lake Studies/TMDL Reports 2025 Grant Applications Contingency for Lake Studies Research Projects	\$37,000.00 \$20,000.00 \$22,500.00	\$0.00 \$792.00 \$0.00	\$19,208.00 \$22,500.00	\$0.00 \$0.00 \$0.00	4661-101 4661-101 4661-101 4695-101	DW-13
Lake Studies/TMDL Reports 2025 Grant Applications Contingency for Lake Studies Research Projects New Technology Mini Case Studies (average 6 per year)	\$37,000.00 \$20,000.00 \$22,500.00 \$15,750.00	\$0.00 \$792.00 \$0.00 \$10,489.00	\$19,208.00 \$22,500.00 \$5,261.00	\$0.00 \$0.00 \$0.00	4661-101 4661-101 4661-101 4695-101	DW-13
Lake Studies/TMDL Reports 2025 Grant Applications Contingency for Lake Studies Research Projects New Technology Mini Case Studies (average 6 per year) Wakefield Lake Aeration Feasibility Study Project Operations	\$37,000.00 \$20,000.00 \$22,500.00 \$15,750.00 \$50,000.00	\$0.00 \$792.00 \$0.00 \$10,489.00 \$4,311.00	\$19,208.00 \$22,500.00 \$5,261.00 \$45,689.00	\$0.00 \$0.00 \$0.00 \$327.50 \$164.00	4661-101 4661-101 4661-101 4695-101 4695-101	DW-13 DW-13 DW-12
Lake Studies/TMDL Reports 2025 Grant Applications Contingency for Lake Studies Research Projects New Technology Mini Case Studies (average 6 per year) Wakefield Lake Aeration Feasibility Study Project Operations 2025 Tanners Alum Facility Monitoring	\$37,000.00 \$20,000.00 \$22,500.00 \$15,750.00 \$50,000.00	\$0.00 \$792.00 \$0.00 \$10,489.00 \$4,311.00	\$19,208.00 \$22,500.00 \$5,261.00 \$45,689.00 \$9,386.50	\$0.00 \$0.00 \$0.00 \$327.50 \$164.00 \$7,583.50	4661-101 4661-101 4661-101 4695-101 4695-101	DW-13 DW-13 DW-12 Tal-3
Lake Studies/TMDL Reports 2025 Grant Applications Contingency for Lake Studies Research Projects New Technology Mini Case Studies (average 6 per year) Wakefield Lake Aeration Feasibility Study Project Operations	\$37,000.00 \$20,000.00 \$22,500.00 \$15,750.00 \$50,000.00	\$0.00 \$792.00 \$0.00 \$10,489.00 \$4,311.00	\$19,208.00 \$22,500.00 \$5,261.00 \$45,689.00	\$0.00 \$0.00 \$0.00 \$327.50 \$164.00	4661-101 4661-101 4661-101 4695-101 4695-101	DW-13 DW-13 DW-12
Lake Studies/TMDL Reports 2025 Grant Applications Contingency for Lake Studies Research Projects New Technology Mini Case Studies (average 6 per year) Wakefield Lake Aeration Feasibility Study Project Operations 2025 Tanners Alum Facility Monitoring Phalen/Keller and Twin Operations Support & Communications	\$37,000.00 \$20,000.00 \$22,500.00 \$15,750.00 \$50,000.00 \$17,850.00 \$5,000.00	\$0.00 \$792.00 \$0.00 \$10,489.00 \$4,311.00 \$5,463.50 \$122.00	\$19,208.00 \$22,500.00 \$5,261.00 \$45,689.00 \$9,386.50 \$4,878.00	\$0.00 \$0.00 \$0.00 \$327.50 \$164.00 \$7,583.50 \$0.00	4661-101 4661-101 4661-101 4695-101 4695-101 4650-101	DW-13 DW-13 DW-12 Tal-3 DW-5, DW-13, DW-18
Lake Studies/TMDL Reports 2025 Grant Applications Contingency for Lake Studies Research Projects New Technology Mini Case Studies (average 6 per year) Wakefield Lake Aeration Feasibility Study Project Operations 2025 Tanners Alum Facility Monitoring Phalen/Keller and Twin Operations Support & Communications Lake Level Station Operation and Maintenance Lake Level Station Forecast Integration	\$37,000.00 \$20,000.00 \$22,500.00 \$15,750.00 \$50,000.00 \$17,850.00 \$5,000.00	\$0.00 \$792.00 \$0.00 \$10,489.00 \$4,311.00 \$8,463.50 \$122.00 \$13,353.60	\$19,208.00 \$22,500.00 \$5,261.00 \$45,689.00 \$9,386.50 \$4,878.00 \$36,646.40	\$0.00 \$0.00 \$0.00 \$327.50 \$164.00 \$7,583.50 \$0.00 \$750.00	4661-101 4661-101 4661-101 4695-101 4695-101 4650-101 4650-101	DW-13 DW-13 DW-12 Tal3 DW-5, DW-13, DW-18 DW-5, DW-18
Lake Studies/TMDL Reports 2025 Grant Applications Contingency for Lake Studies Research Projects New Technology Mini Case Studies (average 6 per year) Wakefield Lake Aeration Feasibility Study Project Operations 2025 Tanners Alum Facility Monitoring Phalen/Keller and Twin Operations Support & Communications Lake Level Station Operation and Maintenance	\$37,000.00 \$20,000.00 \$22,500.00 \$15,750.00 \$50,000.00 \$17,850.00 \$5,000.00	\$0.00 \$792.00 \$0.00 \$10,489.00 \$4,311.00 \$8,463.50 \$122.00 \$13,353.60	\$19,208.00 \$22,500.00 \$5,261.00 \$45,689.00 \$9,386.50 \$4,878.00 \$36,646.40	\$0.00 \$0.00 \$0.00 \$327.50 \$164.00 \$7,583.50 \$0.00 \$750.00	4661-101 4661-101 4661-101 4695-101 4695-101 4650-101 4650-101	DW-13 DW-13 DW-12 Tal3 DW-5, DW-13, DW-18 DW-5, DW-18
Lake Studies/TMDL Reports 2025 Grant Applications Contingency for Lake Studies Research Projects New Technology Mini Case Studies (average 6 per year) Wakefield Lake Aeration Feasibility Study Project Operations 2025 Tanners Alum Facility Monitoring Phalen/Keller and Twin Operations Support & Communications Lake Level Station Operation and Maintenance Lake Level Station Forecast Integration Capital Improvements	\$37,000.00 \$20,000.00 \$22,500.00 \$15,750.00 \$50,000.00 \$17,850.00 \$5,000.00 \$50,000.00 \$55,000.00 \$22,000.00 \$22,000.00	\$0.00 \$792.00 \$0.00 \$10,489.00 \$4,311.00 \$8,463.50 \$122.00 \$1,353.60 \$7,671.00	\$19,208.00 \$22,500.00 \$45,689.00 \$45,689.00 \$9,386.50 \$4,878.00 \$47,329.00 \$47,329.00	\$0.00 \$0.00 \$0.00 \$327.50 \$164.00 \$7,583.50 \$0.00 \$750.00 \$2,920.50 \$3,579.70 \$5,898.50	4661-101 4661-101 4661-101 4695-101 4695-101 4695-101 4650-101 4650-101 4650-101	DW-13 DW-13 DW-12 TaL-3 DW-5, DW-13, DW-18 DW-5, DW-18 DW-5, DW-18 DW-6, DW-9 DW-6
Lake Studies/TMDL Reports 2025 Grant Applications Contingency for Lake Studies Research Projects New Technology Mini Case Studies (average 6 per year) Wakefield Lake Aeration Feasibility Study Project Operations 2025 Tanners Alum Facility Monitoring Phalen/Keller and Twin Operations Support & Communications Lake Level Station Operation and Maintenance Lake Level Station Forecast Integration Capital Improvements Roosevelt Homes Phase III Targeted Retrofit Projects 2025 Stewardship Grant Program	\$37,000.00 \$20,000.00 \$22,500.00 \$15,750.00 \$50,000.00 \$50,000.00 \$5,000.00 \$5,000.00 \$55,000.00 \$55,000.00 \$150,000.00 \$75,000.00	\$0.00 \$792.00 \$0.00 \$10,489.00 \$4,311.00 \$4,311.00 \$122.00 \$13,353.60 \$7,671.00 \$45,566.20 \$79,015.00 \$4,500.00	\$19,208.00 \$22,500.00 \$5,261.00 \$45,689.00 \$9,386.50 \$4,878.00 \$36,646.40 \$47,329.00 \$70,985.00 \$70,500.00	\$0.00 \$0.00 \$0.00 \$327.50 \$164.00 \$7,583.50 \$0.00 \$750.00 \$2,920.50 \$3,579.70 \$5,898.50 \$52.50	4661-101 4661-101 4661-101 4695-101 4695-101 4650-101 4650-101 4650-101 4128-518 4128-518	DW-13 DW-13 DW-12 Tal-3 DW-5, DW-13, DW-18 DW-5, DW-18 DW-6, DW-18 DW-6, DW-9 DW-6 DW-6
Lake Studies/TMDL Reports 2025 Grant Applications Contingency for Lake Studies Research Projects New Technology Mini Case Studies (average 6 per year) Wakefield Lake Aeration Feasibility Study Project Operations 2025 Tanners Alum Facility Monitoring Phalen/Keller and Twin Operations Support & Communications Lake Level Station Operation and Maintenance Lake Level Station Forecast Integration Capital Improvements Roosevelt Homes Phase III Targeted Retrofit Projects 2025 Stewardship Grant Program Pioneer Park Stormwater Reuse*	\$37,000.00 \$20,000.00 \$22,500.00 \$15,750.00 \$50,000.00 \$17,850.00 \$5,000.00 \$5,000.00 \$5,000.00 \$5,000.00 \$5,000.00 \$5,000.00 \$5,000.00 \$5,000.00 \$5,000.00 \$5,000.00 \$5,000.00 \$5,000.00 \$5,000.00	\$0.00 \$792.00 \$0.00 \$10,489.00 \$4,311.00 \$4,311.00 \$122.00 \$13,353.60 \$7,671.00 \$45,500.00 \$2,967.10	\$19,208.00 \$22,500.00 \$5,261.00 \$45,689.00 \$4,878.00 \$36,646.40 \$47,329.00 \$70,985.00 \$70,500.00 \$7,032.90	\$0.00 \$0.00 \$0.00 \$327.50 \$164.00 \$7.583.50 \$0.00 \$750.00 \$2,920.50 \$3,579.70 \$5,898.50 \$673.10	4661-101 4661-101 4661-101 4661-101 4695-101 4695-101 4650-101 4650-101 4650-101 4128-518 4682-529 4128-518	DW-13 DW-13 DW-12 Tal3 DW-5, DW-13, DW-18 DW-5, DW-18 DW-6, DW-18 DW-6, DW-6 DW-6 DW-6
Lake Studies/TMDL Reports 2025 Grant Applications Contingency for Lake Studies Research Projects New Technology Mini Case Studies (average 6 per year) Wakefield Lake Aeration Feasibility Study Project Operations 2025 Tanners Alum Facility Monitoring Phalen/Keller and Twin Operations Support & Communications Lake Level Station Operation and Maintenance Lake Level Station Forecast Integration Capital Improvements Roosevelt Homes Phase III Targeted Retrofit Projects 2025 Stewardship Grant Program Pioneer Park Stormwater Reuse* Double Driveway and Fish Creek Tributary Improvements	\$37,000.00 \$20,000.00 \$22,500.00 \$15,750.00 \$50,000.00 \$5,000.00 \$5,000.00 \$5,000.00 \$5,000.00 \$5,000.00 \$10,000.00 \$150,000.00 \$22,000.00 \$150,000.00 \$235,000.00	\$0.00 \$792.00 \$0.00 \$10,489.00 \$4,311.00 \$4,311.00 \$1122.00 \$13,353.60 \$7,671.00 \$46,566.20 \$79,015.00 \$4,500.00 \$2,967.10 \$11,586.50	\$19,208.00 \$22,500.00 \$45,261.00 \$45,689.00 \$4,678.00 \$36,646.40 \$47,329.00 \$70,985.00 \$70,500.00 \$7,032.90 \$223,413.50	\$0.00 \$0.00 \$0.00 \$327.50 \$164.00 \$7,583.50 \$0.00 \$750.00 \$2,920.50 \$3,579.70 \$5,888.50 \$62.50 \$673.10	4661-101 4661-101 4661-101 4661-101 4695-101 4695-101 4650-101 4650-101 4650-101 4650-101 4650-101 4650-101 4128-518 4128-518 4128-518	DW-13 DW-13 DW-12 Tal3 DW-5, DW-13, DW-18 DW-5, DW-18 DW-6, DW-9 DW-6 DW-6 DW-6 DW-6
Lake Studies/TMDL Reports 2025 Grant Applications Contingency for Lake Studies Research Projects New Technology Mini Case Studies (average 6 per year) Wakefield Lake Aeration Feasibility Study Project Operations 2025 Tanners Alum Facility Monitoring Phalen/Keller and Twin Operations Support & Communications Lake Level Station Operation and Maintenance Lake Level Station Forecast Integration Capital Improvements Roosevelt Homes Phase III Targeted Retrofit Projects 2025 Stewardship Grant Program Pioneer Park Stormwater Reuse* Double Driveway and Fish Creek Tributary Improvements Cottage Place Wetland*	\$37,000.00 \$20,000.00 \$22,500.00 \$15,750.00 \$50,000.00 \$17,850.00 \$5,000.00 \$5,000.00 \$5,000.00 \$5,000.00 \$5,000.00 \$5,000.00 \$5,000.00 \$5,000.00 \$5,000.00 \$5,000.00 \$5,000.00 \$5,000.00 \$5,000.00	\$0.00 \$792.00 \$0.00 \$10,489.00 \$4,311.00 \$4,311.00 \$122.00 \$13,353.60 \$7,671.00 \$45,500.00 \$2,967.10	\$19,208.00 \$22,500.00 \$5,261.00 \$45,689.00 \$4,878.00 \$36,646.40 \$47,329.00 \$70,985.00 \$70,500.00 \$7,032.90	\$0.00 \$0.00 \$0.00 \$327.50 \$164.00 \$7.583.50 \$0.00 \$750.00 \$2,920.50 \$3,579.70 \$5,898.50 \$673.10	4661-101 4661-101 4661-101 4661-101 4695-101 4695-101 4650-101 4650-101 4650-101 4128-518 4128-518 4128-518 4128-518	DW-13 DW-13 DW-12 Tal3 DW-5, DW-13, DW-18 DW-5, DW-18 DW-6, DW-18 DW-6, DW-6 DW-6 DW-6
Lake Studies/TMDL Reports 2025 Grant Applications Contingency for Lake Studies Research Projects New Technology Mini Case Studies (average 6 per year) Wakefield Lake Aeration Feasibility Study Project Operations 2025 Tanners Alum Facility Monitoring Phalen/Keller and Twin Operations Support & Communications Lake Level Station Operation and Maintenance Lake Level Station Forecast Integration Capital Improvements Roosevelt Homes Phase III Targeted Retrofit Projects 2025 Stewardship Grant Program Pioneer Park Stormwater Reuse* Double Driveway and Fish Creek Tributary Improvements	\$37,000.00 \$20,000.00 \$22,500.00 \$15,750.00 \$50,000.00 \$50,000.00 \$55,000.00 \$55,000.00 \$55,000.00 \$150,000.00 \$22,000.00 \$150,000.00 \$23,000.00 \$30,000.00	\$0.00 \$792.00 \$0.00 \$10,489.00 \$4,311.00 \$4,311.00 \$12.00 \$13,353.60 \$7,671.00 \$46,566.20 \$79,015.00 \$4,500.00 \$1,966.50 \$12,961.50	\$19,208.00 \$22,500.00 \$45,689.00 \$45,689.00 \$9,386.50 \$4,878.00 \$36,646.40 \$47,329.00 \$70,908.00 \$70,500.00 \$70,302.90 \$223,413.50 \$17,438.50	\$0.00 \$0.00 \$0.00 \$327.50 \$164.00 \$7,583.50 \$0.00 \$750.00 \$2,920.50 \$3,579.70 \$5,898.50 \$673.10 \$6,543.50 \$4,303.90	4661-101 4661-101 4661-101 4661-101 4695-101 4695-101 4650-101 4650-101 4650-101 4650-101 4650-101 4650-101 4128-518 4128-518 4128-518	DW-13 DW-13 DW-12 Tal3 DW-5, DW-13, DW-18 DW-5, DW-18 DW-6, DW-9 DW-6 DW-6 DW-6 FC-2 DW-8, DW-14, LE-3
Lake Studies/TMDL Reports 2025 Grant Applications Contingency for Lake Studies Research Projects New Technology Mini Case Studies (average 6 per year) Wakefield Lake Aeration Feasibility Study Project Operations 2025 Tanners Alum Facility Monitoring Phalen/Keller and Twin Operations Support & Communications Lake Level Station Operation and Maintenance Lake Level Station Forecast Integration Capital Improvements Capital Improvements Itargeted Retrofit Projects 2025 Stewardship Grant Program Pioneer Park Stormwater Reuse* Double Driveway and Fish Creek Tributary Improvements Cottage Place Wetland* Ames Lake improvements	\$37,000.00 \$20,000.00 \$22,500.00 \$15,750.00 \$50,000.00 \$50,000.00 \$55,000.00 \$55,000.00 \$55,000.00 \$22,000.00 \$23,000.00 \$30,000.00 \$235,000.00 \$30,000.00 \$235,000.00 \$30,000.00 \$250,000.00	\$0.00 \$792.00 \$0.00 \$10,489.00 \$4,311.00 \$4,311.00 \$122.00 \$13,353.60 \$7,671.00 \$4,500.00 \$4,500.00 \$11,566.50 \$12,561.50 \$0.00	\$19,208.00 \$22,500.00 \$45,689.00 \$45,689.00 \$4,878.00 \$36,646.40 \$47,329.00 \$70,500.00 \$7,032.90 \$223,413.50 \$17,438.50 \$250,000.00	\$0.00 \$0.00 \$0.00 \$164.00 \$164.00 \$7,583.50 \$0.00 \$750.00 \$2,920.50 \$3,579.70 \$5,898.50 \$62.50 \$673.10 \$6,543.50 \$4,303.90 \$0.00	4661-101 4661-101 4661-101 4661-101 4695-101 4695-101 4650-101 4650-101 4650-101 4128-518 4128-518 4128-529 4128-518 4128-518 4128-518	DW-13 DW-13 DW-12 Tal-3 DW-5, DW-13, DW-18 DW-5, DW-18 DW-6, DW-9 DW-6 DW-6 DW-6 DW-6 DW-6 DW-6 DW-6 DW-6 DW-8 DW-8 FC-2 DW-8, DW-14, LE-3 DW-9, BELT-1
Lake Studies/TMDL Reports 2025 Grant Applications Contingency for Lake Studies Research Projects New Technology Mini Case Studies (average 6 per year) Wakefield Lake Aeration Feasibility Study Project Operations 2025 Tanners Alum Facility Monitoring Phalen/Keller and Twin Operations Support & Communications Lake Level Station Operation and Maintenance Lake Level Station Forecast Integration Capital Improvements Capital Improvements ITargeted Retrofit Projects 2025 Stewardship Grant Program Pioneer Park Stormwater Reuse* Double Driveway and Fish Creek Tributary Improvements Cottage Place Wetland* Ames Lake Improvements County Road C Culvert Capacity*	\$37,000.00 \$20,000.00 \$22,500.00 \$15,750.00 \$50,000.00 \$17,850.00 \$5,000.00 \$5,000.00 \$5,000.00 \$5,000.00 \$150,000.00 \$25,000.00 \$25,000.00 \$10,000.00 \$235,000.00 \$255,000.00 \$255,000.00	\$0.00 \$792.00 \$0.00 \$10,489.00 \$4,311.00 \$4,311.00 \$122.00 \$13,353.60 \$7,671.00 \$46,566.20 \$79,015.00 \$4,500.00 \$2,967.10 \$11,586.50 \$12,561.50 \$0.00 \$2,009.00	\$19,208.00 \$22,500.00 \$45,689.00 \$45,689.00 \$9,386.50 \$4,878.00 \$36,646.40 \$47,329.00 \$70,500.00 \$7,032.90 \$22,413.50 \$250,000.00 \$7,991.00	\$0.00 \$0.00 \$0.00 \$327.50 \$164.00 \$7.583.50 \$0.00 \$750.00 \$2,920.50 \$3,579.70 \$5,898.50 \$673.10 \$6,543.50 \$4,033.90 \$0.00 \$165.00	4661-101 4661-101 4661-101 4661-101 4661-101 4695-101 4695-101 4650-101 4650-101 4650-101 4128-518 4128-518 4128-518 4128-518 4128-518 4128-520 4128-520	DW-13 DW-13 DW-13 DW-12 Tal3 DW-5, DW-13, DW-18 DW-5, DW-18 DW-6, DW-9 DW-6 DW-6 DW-6 DW-6 DW-6 DW-6 DW-6 DW-9 DW-6 DW-9 DW-
Lake Studies/TMDL Reports 2025 Grant Applications Contingency for Lake Studies Research Projects New Technology Mini Case Studies (average 6 per year) Wakefield Lake Aeration Feasibility Study Project Operations 2025 Tanners Alum Facility Monitoring Phalen/Keller and Twin Operations Support & Communications Lake Level Station Operation and Maintenance Lake Level Station Forecast Integration Capital Improvements Roosevelt Homes Phase III Targeted Retrofit Projects 2025 Stewardship Grant Program Pioneer Park Stormwater Reuse* Double Driveway and Fish Creek Tributary Improvements Cottage Place Wetland* Ames Lake improvements County Road C Culvert Capacity* Kohlman Creek Improvements* Wabasso Outlet Replacement Kohlman Lake Alum Treatment*	\$37,000.00 \$20,000.00 \$22,500.00 \$15,750.00 \$50,000.00 \$50,000.00 \$55,000.00 \$55,000.00 \$55,000.00 \$55,000.00 \$22,000.00 \$23,000.00 \$235,000.00 \$30,000.00 \$30,000.00 \$30,000.00 \$30,000.00 \$30,000.00 \$40,000.00 \$30,000.00 \$40,000.00 \$40,000.00 \$40,000.00 \$40,000.00 \$50,000.00 \$50,000.00 \$50,000.00 \$50,000.00	\$0.00 \$792.00 \$0.00 \$10,489.00 \$4,311.00 \$4,311.00 \$122.00 \$13,353.60 \$7,671.00 \$46,566.20 \$79,015.00 \$2,967.10 \$11,561.50 \$0.00 \$2,099.00 \$2,099.00 \$2,099.00 \$2,099.00 \$2,099.00 \$2,099.00 \$2,099.00 \$2,099.00 \$2,099.00 \$2,099.00	\$19,208.00 \$22,500.00 \$45,689.00 \$45,689.00 \$45,689.00 \$36,646.40 \$47,329.00 \$70,500.00 \$70,500.00 \$7,302.90 \$223,413.50 \$223,413.50 \$7,430.35 \$7,430.35 \$7,018.66 \$51,097.00	\$0.00 \$0.00 \$0.00 \$1.00	4661-101 4661-101 4661-101 4661-101 4665-101 4650-101 4650-101 4650-101 4650-101 4128-518 4128-518 4128-518 4128-518 4128-520 4128-520 4128-520 4128-520 4128-520	DW-13 DW-13 DW-13 DW-12 Tal3 DW-5, DW-13, DW-18 DW-5, DW-18 DW-6, DW-9 DW-6 DW-6 DW-6 DW-6 FC-2 DW-8, DW-14, LE-3 DW-9, BELT-1 DW-9, KC-2 DW-9, KC-2 DW-5 KL-2
Lake Studies/TMDL Reports 2025 Grant Applications Contingency for Lake Studies Research Projects New Technology Mini Case Studies (average 6 per year) Wakefield Lake Aeration Feasibility Study Project Operations 2025 Tanners Alum Facility Monitoring Phalen/Keller and Twin Operations Support & Communications Lake Level Station Operation and Maintenance Lake Level Station Forecast Integration Capital Improvements Roosevelt Homes Phase III Targeted Retrofit Projects 2025 Stewardship Grant Program Pioneer Park Stormwater Reuse* Double Driveway and Fish Creek Tributary Improvements Cottage Place Wetland* Ames Lake improvements County Road C Culvert Capacity* Kohlman Creek Improvements* Wabasso Outlet Replacement	\$37,000.00 \$20,000.00 \$22,500.00 \$15,750.00 \$50,000.00 \$50,000.00 \$55,000.00 \$55,000.00 \$150,000.00 \$150,000.00 \$150,000.00 \$150,000.00 \$10,000.00 \$235,000.00 \$30,000.00 \$30,000.00 \$40,000.00 \$40,000.00	\$0.00 \$792.00 \$0.00 \$10.489.00 \$4,311.00 \$4,311.00 \$13,353.60 \$7,671.00 \$46,566.20 \$79,015.00 \$4,500.00 \$2,967.10 \$11,586.50 \$12,561.50 \$0.00 \$2,009.00 \$2,009.00 \$2,009.00	\$19,208.00 \$22,500.00 \$45,689.00 \$45,689.00 \$4,478.00 \$36,646.40 \$47,329.00 \$70,985.00 \$70,985.00 \$71,438.50 \$25,000.00 \$7,991.00 \$7,991.00 \$7,991.00 \$7,991.00 \$7,991.00	\$0.00 \$0.00 \$0.00 \$327.50 \$164.00 \$7,583.50 \$0.00 \$750.00 \$2,920.50 \$3,579.70 \$5,898.50 \$673.10 \$6,543.50 \$4,303.90 \$0.00 \$165.00 \$12,125.50 \$10,668.00	4661-101 4661-101 4661-101 4661-101 4661-101 4695-101 4695-101 4650-101 4650-101 4650-101 4650-101 4128-518 4128-518 4128-529 4128-518 4128-520 4128-520 4128-520 4128-520	DW-13 DW-13 DW-13 DW-12 Tal3 DW-5, DW-13, DW-18 DW-5, DW-18 DW-6, DW-9 DW-6 DW-6 DW-6 DW-6 DW-6 DW-6 DW-6 DW-9 EC-2 DW-9, BCLT-1 DW-9, KC-2 DW-9, KC-2 DW-5
Lake Studies/TMDL Reports 2025 Grant Applications Contingency for Lake Studies Research Projects New Technology Mini Case Studies (average 6 per year) Wakefield Lake Aeration Feasibility Study Project Operations 2025 Tanners Alum Facility Monitoring Phalen/Keller and Twin Operations Support & Communications Lake Level Station Operation and Maintenance Lake Level Station Forecast Integration Capital Improvements Roosevelt Homes Phase III Targeted Retrofit Projects 2025 Stewardship Grant Program Pioneer Park Stormwater Reuse* Double Driveway and Fish Creek Tributary Improvements Cottage Place Wetland* Ames Lake improvements County Road C Culvert Capacity* Kohlman Creek Improvements* Wabasso Outlet Replacement Kohlman Lake Alum Treatment*	\$37,000.00 \$20,000.00 \$22,500.00 \$15,750.00 \$50,000.00 \$50,000.00 \$55,000.00 \$55,000.00 \$55,000.00 \$55,000.00 \$22,000.00 \$23,000.00 \$235,000.00 \$30,000.00 \$30,000.00 \$30,000.00 \$30,000.00 \$30,000.00 \$40,000.00 \$30,000.00 \$40,000.00 \$40,000.00 \$40,000.00 \$40,000.00 \$50,000.00 \$50,000.00 \$50,000.00 \$50,000.00	\$0.00 \$792.00 \$0.00 \$10,489.00 \$4,311.00 \$4,311.00 \$122.00 \$13,353.60 \$7,671.00 \$46,566.20 \$79,015.00 \$2,967.10 \$11,561.50 \$0.00 \$2,099.00 \$2,099.00 \$2,099.00 \$2,099.00 \$2,099.00 \$2,099.00 \$2,099.00 \$2,099.00 \$2,099.00 \$2,099.00	\$19,208.00 \$22,500.00 \$45,689.00 \$45,689.00 \$45,689.00 \$36,646.40 \$47,329.00 \$70,500.00 \$70,500.00 \$7,302.90 \$223,413.50 \$223,413.50 \$7,430.35 \$7,430.35 \$7,018.66 \$51,097.00	\$0.00 \$0.00 \$0.00 \$1.00	4661-101 4661-101 4661-101 4661-101 4665-101 4650-101 4650-101 4650-101 4650-101 4128-518 4128-518 4128-518 4128-518 4128-520 4128-520 4128-520 4128-520 4128-520	DW-13 DW-13 DW-13 DW-12 Tal3 DW-5, DW-13, DW-18 DW-5, DW-18 DW-6, DW-9 DW-6 DW-6 DW-6 DW-6 FC-2 DW-8, DW-14, LE-3 DW-9, BELT-1 DW-9, KC-2 DW-9, KC-2 DW-5 KL-2
Lake Studies/TMDL Reports 2025 Grant Applications Contingency for Lake Studies Research Projects New Technology Mini Case Studies (average 6 per year) Wakefield Lake Aeration Feasibility Study Project Operations 2025 Tanners Alum Facility Monitoring Phalen/Keller and Twin Operations Support & Communications Lake Level Station Operation and Maintenance Lake Level Station Forecast Integration Capital Improvements Roosevelt Homes Phase III Targeted Retrofit Projects 2025 Stewardship Grant Program Pioneer Park Stormwater Reuse* Double Driveway and Fish Creek Tributary Improvements Cottage Place Wetland* Ames Lake improvements County Road C Culvert Capacity* Kohlman Creek Improvements* Wabasso Outlet Replacement Kohlman Lake Alum Treatment* Woodbury Target* CIP Project Repair & Maintenance Routine CIP Inspection and Unplanned Maintenance Identification	\$37,000.00 \$20,000.00 \$22,500.00 \$15,750.00 \$50,000.00 \$50,000.00 \$55,000.00 \$55,000.00 \$55,000.00 \$55,000.00 \$150,000.00 \$225,000.00 \$235,000.00 \$235,000.00 \$10,000.00 \$10,000.00 \$10,000.00 \$10,000.00 \$10,000.00 \$10,000.00 \$10,000.00 \$10,000.00 \$10,000.00 \$10,000.00 \$10,000.00	\$0.00 \$792.00 \$0.00 \$10,489.00 \$4,311.00 \$4,311.00 \$122.00 \$13,353.60 \$7,671.00 \$45,500.00 \$2,967.10 \$11,586.50 \$12,561.50 \$0.00 \$2,009.00 \$32,698.64 \$20,203.00 \$742.50	\$19,208.00 \$22,500.00 \$45,689.00 \$45,689.00 \$45,689.00 \$4,878.00 \$47,329.00 \$70,500.00 \$70,500.00 \$70,500.00 \$71,438.50 \$223,413.50 \$17,438.50 \$7,018.66 \$51,097.00 \$9,257.50	\$0.00 \$0.00 \$0.00 \$327.50 \$164.00 \$7.583.50 \$0.00 \$750.00 \$2,920.50 \$3,579.70 \$6,543.50 \$6,543.50 \$10,668.00 \$12,125.50 \$306.00 \$306.00	4661-101 4661-101 4661-101 4661-101 4661-101 4695-101 4695-101 4650-101 4650-101 4650-101 4128-518 4128-518 4128-518 4128-520 4128-520 4128-520 4128-520 4128-518 4128-518	DW-13 DW-13 DW-13 DW-12 Tal3 DW-5, DW-13, DW-18 DW-5, DW-18 DW-6, DW-9 DW-6 DW-6 DW-6 DW-6 DW-6 DW-6 DW-9
Lake Studies/TMDL Reports 2025 Grant Applications Contingency for Lake Studies Research Projects New Technology Mini Case Studies (average 6 per year) Wakefield Lake Aeration Feasibility Study Project Operations 2025 Tanners Alum Facility Monitoring Phalen/Keller and Twin Operations Support & Communications Lake Level Station Operation and Maintenance Lake Level Station Forecast Integration Capital Improvements Roosevelt Homes Phase III Targeted Retrofit Projects 2025 Stewardship Grant Program Ploneer Park Stormwater Reuse* Double Driveway and Fish Creek Tributary Improvements Cottage Place Wetland* Ames Lake improvements County Road C Culvert Capacity* Kohlman Creek Improvements Wabasso Outlet Replacement Kohlman Lake Alum Treatment* Woodbury Target* CIP Project Repair & Maintenance Routine CIP Inspection and Unplanned Maintenance Identification 2025 CIP Maintenance and Repairs	\$37,000.00 \$20,000.00 \$22,500.00 \$15,750.00 \$50,000.00 \$50,000.00 \$50,000.00 \$50,000.00 \$55,000.00 \$55,000.00 \$55,000.00 \$55,000.00 \$55,000.00 \$75,000.00 \$10,000.00 \$2250,000.00 \$10,000.00 \$10,000.00 \$10,000.00 \$10,000.00 \$10,000.00 \$10,000.00 \$10,000.00 \$10,000.00 \$10,000.00 \$10,000.00 \$10,000.00 \$10,000.00 \$10,000.00	\$0.00 \$792.00 \$0.00 \$10,489.00 \$4,311.00 \$4,311.00 \$122.00 \$13,353.60 \$7,671.00 \$4,500.00 \$4,500.00 \$2,967.10 \$11,561.50 \$0.00 \$2,009.00 \$2,009.00 \$2,009.00 \$2,009.00 \$4,500.00 \$2,009.00 \$2,009.00 \$4,500.00 \$2,009.00	\$19,208.00 \$22,500.00 \$45,689.00 \$45,689.00 \$45,689.00 \$4,878.00 \$4,878.00 \$4,878.00 \$70,500.00 \$70,500.00 \$70,500.00 \$73,438.50 \$17,438.50 \$7,018.66 \$51,097.00 \$9,257.50	\$0.00 \$0.00 \$0.00 \$0.00 \$327.50 \$164.00 \$164.00 \$750.00 \$750.00 \$2,920.50 \$5,898.50 \$673.10 \$6,543.50 \$4,303.90 \$165.00 \$11,125.50 \$10,668.00 \$570.00 \$306.00	4661-101 4661-101 4661-101 4661-101 4661-101 4695-101 4695-101 4650-101 4650-101 4650-101 4450-101 4128-518 4128-518 4128-518 4128-520 4128-520 4128-520 4128-520 4128-520 4128-520 4128-520 4128-518	DW-13 DW-13 DW-13 DW-12 Tal3 DW-5, DW-13, DW-18 DW-5, DW-18 DW-6, DW-6 DW-6 DW-6 DW-6 DW-6 DW-6 DW-6 DW-9 DW-9 DW-9 DW-9 EC2 DW-9, KC-2 DW-9, KC-2 DW-9, KC-2 DW-9 DW-6 KI2 DW-6 DW-6
Lake Studies/TMDL Reports 2025 Grant Applications Contingency for Lake Studies Research Projects New Technology Mini Case Studies (average 6 per year) Wakefield Lake Aeration Feasibility Study Project Operations 2025 Tanners Alum Facility Monitoring Phalen/Keller and Twin Operations Support & Communications Lake Level Station Operation and Maintenance Lake Level Station Forecast Integration Capital Improvements Roosevelt Homes Phase III Targeted Retrofit Projects 2025 Stewardship Grant Program Pioneer Park Stormwater Reuse* Double Driveway and Fish Creek Tributary Improvements Cottage Place Wetland* Ames Lake improvements County Road C Culvert Capacity* Kohlman Creek Improvements* Wabasso Outlet Replacement Kohlman Lake Alum Treatment* Woodbury Target* CIP Project Repair & Maintenance Routine CIP Inspection and Unplanned Maintenance Identification	\$37,000.00 \$20,000.00 \$22,500.00 \$15,750.00 \$50,000.00 \$50,000.00 \$55,000.00 \$55,000.00 \$55,000.00 \$55,000.00 \$150,000.00 \$225,000.00 \$235,000.00 \$235,000.00 \$10,000.00 \$10,000.00 \$10,000.00 \$10,000.00 \$10,000.00 \$10,000.00 \$10,000.00 \$10,000.00 \$10,000.00 \$10,000.00 \$10,000.00	\$0.00 \$792.00 \$0.00 \$10,489.00 \$4,311.00 \$4,311.00 \$122.00 \$13,353.60 \$7,671.00 \$45,500.00 \$2,967.10 \$11,586.50 \$12,561.50 \$0.00 \$2,009.00 \$32,698.64 \$20,203.00 \$742.50	\$19,208.00 \$22,500.00 \$45,689.00 \$45,689.00 \$45,689.00 \$4,878.00 \$47,329.00 \$70,500.00 \$70,500.00 \$70,500.00 \$71,438.50 \$223,413.50 \$17,438.50 \$7,018.66 \$51,097.00 \$9,257.50	\$0.00 \$0.00 \$0.00 \$327.50 \$164.00 \$7.583.50 \$0.00 \$750.00 \$2,920.50 \$3,579.70 \$6,543.50 \$6,543.50 \$10,668.00 \$12,125.50 \$306.00 \$306.00	4661-101 4661-101 4661-101 4661-101 4661-101 4695-101 4695-101 4650-101 4650-101 4650-101 4128-518 4128-518 4128-518 4128-520 4128-520 4128-520 4128-520 4128-518 4128-518	DW-13 DW-13 DW-13 DW-12 Tal3 DW-5, DW-13, DW-18 DW-5, DW-18 DW-6, DW-9 DW-6 DW-6 DW-6 DW-6 DW-6 DW-6 DW-9

*For these CIP projects, only the 2025 portion of the total budget is shown.

Barr declares under the penalties of Law that this Account, Claim, or Demand is just and that no part has been paid. \$133,583.74

BILL

Bradley J. Lindaman, Vice President

ROOSEVELT HOMES PHASE 3 RAMSEY-WASHINGTON METRO WATERSHED DISTRICT

Progress Payment Application No. 1

1.	Completed	l to Date:		\$	60,802.20			
2.	Less Previo	ously Billed:				\$ -		
3.	Amount Co	ompleted This Period:					-	\$ 60,802.20
4.	Amount Pr	eviously Retained:				\$ -		
5.	Amount Re	etained This Period (Se	ee Note 1):				_	\$ (6,080.22)
6.	Total Amo	unt Retained (See Not	e 2):			\$ (6,080.	22)	
7.	Retainage	Released Through This	s Period:				-	\$ -
8.	Less Total	Retainage Remaining:				\$ (6,080.	22)	
9.		nts Previously Paid cation Nos)		\$	_			
10.	Amount D	ue This Period:					=	\$ 54,721.98
Note SUBN Name Title:	2: Maximu //ITTED BY: e:	mum amount is 5% of m amount is 5% of cur Stephan McLafferty Project Manager Shoreline Landscapin	rrent Contrac		e (Original Co			13)
Signa	oture: Sa OMMENDED e:	tephan McLa	fferty Date:	<u>5</u> ,	/21/2025			
Signa	ture:	Mary R/	Blan_	_				
Name Title:	e:	Val Eisele President Ramsey-Washington	Date: Metro Wate	rshed	District			
Signa	ture:							

ROOSEVELT HOMES PHASE 3 CONSTRUCTION CONTRACT AMOUNT FOR PROGRESS PAYMENT

5/20/2025

BID TOTAL TOTAL COMPLETED THROUGH THIS PERIOD

				L					OUGH THIS P		
Bid Item	Description	Unit	Estimated Quantity		Unit Price	E	xtended Cost	Unit Price	Actual Quantity*	Ext	tended Cos
	Mobilization	LS	1	\$	28,000.00	\$	28,000.00	\$ 28,000.0		\$	14,000.0
	Traffic and Pedestrian Safety Control Measures	LS	1	\$	3,000.00	\$	3,000.00	\$ 3,000.00		\$	3,000.0
	Electrical Utility Relocation (Modifications, UE Conduits and Wiring)	LS	1	\$	14,000.00	\$	14,000.00	\$ 14,000.0		\$	-
	Construction Layout and Staking	LS	1	\$	4,500.00	\$	4,500.00	\$ 4,500.00		\$	4,500.0
	Temporary Construction Fencing (P)	LF	1,195	\$	10.00	\$	11,950.00	\$ 10.00		\$	11,950.0
	Tree Protection Fencing (P)	LF	190	\$	4.00	4	760.00	\$ 4.00	,	\$	760.0
	Construction Entrance Rumble Mat	EA	1.0	\$	1,500.00	\$	1,500.00	\$ 1,500.00	_	\$	700.0
	Inlet Protection (P)	EA	10.00	\$	200.00	٥	2,000.00	\$ 200.00		\$	2,000.0
	Sediment Control Log	LF	911.00	\$	3.00	\$	2,733.00	\$ 3.00		\$	2,733.0
	Sawcut Existing Pavement (P)	LF	418	\$	5.00	\$	2,090.00	\$ 5.00		\$	2,090.0
	Remove and Dispose of Bituminous Pavement (P)	SY	121	\$	5.80	\$	701.80	\$ 5.80		\$	2,030.0
	Remove and Dispose of Concrete Pavement (P)	SY	273	\$	12.00	\$	3,276.00	\$ 12.0		\$	3,276.0
		LF	104		43.00	-	4,472.00	\$ 43.00		\$	3,276.0
	Remove and Dispose Existing Storm Pipes (all sizes)	EA	104	\$	2,840.00	\$	2,840.00	\$ 2,840.00		\$	
	Remove and Dispose of Existing Storm Sewer Manhole			_		\$					-
	Remove and Dispose Sod (P)	SY	749	\$	1.80	\$	1,348.20	\$ 1.80		\$	1,348.2
	Remove, Salvage and Stockpile Topsoil (P)	BCY	83	\$	15.00	\$	1,245.00	\$ 15.00		\$	1,245.0
	Remove, Salvage and Replace Existing Casting	EA	2	\$	1,170.00	\$	2,340.00	\$ 1,170.00		٠.	-
	Remove, Salvage, and Reinstall Fencing (Black)	LS	1	\$	1,570.00	\$	1,570.00	\$ 1,570.00		\$	-
	Remove and Dispose of Chain Link Fence	LS	1	\$	1,520.00	\$	1,520.00	\$ 1,520.00		\$	1,520.0
	Remove and Dispose of Retaining Wall (Timber)	LS	1	\$	2,200.00	\$	2,200.00	\$ 2,200.00		\$	2,200.0
	Remove and Dispose of Existing Playground Surfacing & Equipment	LS	1	\$	4,830.00	\$	4,830.00	\$ 4,830.00		\$	4,830.0
	City of St. Paul Approved Contractor (Required for R.O.W. work)	LS	1	\$	11,400.00	\$	11,400.00	\$ 11,400.00			-
W	Traffic Safety Signs (All Types)	EA	2	\$	1,300.00	\$	2,600.00	\$ 1,300.00	0	\$	-
Х	Bituminous Pavement (P)	SY	210	\$	65.00	\$	13,650.00	\$ 65.00	0	\$	-
Y	Painted Pavement Marking	LS	1	\$	1,310.00	\$	1,310.00	\$ 1,310.00	0	\$	-
Z	Concrete Curb & Gutter B612	LF	55	\$	54.00	\$	2,970.00	\$ 54.00	0	\$	-
AA	Concrete Sidewalk (P)	SY	310	\$	98.00	\$	30,380.00	\$ 98.00	0	\$	-
BB	Pedestrian Ramp w/ Truncated Domes	EA	1	\$	4,120.00	\$	4,120.00	\$ 4,120.00	0	\$	-
CC	Common Excavation and Embankment (P)	CY	298	\$	20.00	\$	5,960.00	\$ 20.00	149	\$	2,980.0
DD	Dispose of Excess Excavated Material Offsite (P)	CY	158	\$	15.00	\$	2,370.00	\$ 15.00	158	\$	2,370.
EE	Trench Drain #1, Complete	LF	13	\$	586.00	\$	7,618.00	\$ 586.00) 0	\$	-
	Trench Drain #2, Complete	LF	7	\$	586.00	\$	4,102.00	\$ 586.00			_
	Concrete Valley Gutter	SY	30	\$	118.00	\$	3,540.00	\$ 118.00		\$	-
	Storm Sewer Structure (72" RCP Manhole at Hazelwood)	EA	1	\$	18,250.00	\$	18,250.00	\$ 18,250.00		Ś	-
	Storm Sewer Structure (48" RCP Catch Basin)	EA	1	\$	5,830.00	\$	5,830.00	\$ 5,830.00		\$	
	Modify Storm Sewer Structure (Existing Catch Basin at Parking Lot)	EA	1	\$	6,870.00	\$	6,870.00	\$ 6,870.00		\$	
	Modify Storm Sewer Structure (Existing Catch Basin at North Flume/Swale)	EA	1	\$	5,430.00	\$	5,430.00	\$ 5,430.00		\$	-
	Storm Sewer Pipe (18" RCP CL V)	LF	36	\$	108.00	\$	3,888.00	\$ 5,430.00		\$	
	Storm Sewer Pipe (16 RCP CL V)	LF	102	\$	168.00	\$	17,136.00	\$ 168.00			
	Storm Sewer Pipe (24 RCP CL V) Storm Sewer Pipe (15" DIP CL54)	LF	25	\$	225.00	\$	5,625.00	\$ 225.00		-	
		EA EA	25		1,175.00			\$ 225.00		\$	
	Storm Sewer End Section (FES at 15" DIP)			\$		\$	2,350.00				-
	Connect Existing Storm Sewer to Storm Sewer Structure (at Hazelwood)	EA	4	\$	3,210.00	\$	12,840.00	\$ 3,210.00		\$	
	Boulder Gravity Wall, Complete	LS	1	\$	13,830.00	\$	13,830.00	\$ 13,830.00		\$	-
	Energy Dissipation Apron, Riprap	EA	2	\$	830.00	\$	1,660.00	\$ 830.00		\$	-
	French Drain with Pea Gravel, Complete (Perforated Pipe Underdrain) (P)	LF	112	\$	48.00	\$	5,376.00	\$ 48.00		\$	-
	Chain Link Fence with Concrete Maintenance Strip	LF	135	\$	105.00	\$	14,175.00	\$ 105.00		- 7	-
	Chain Link Fence with Concrete Maintenance Strip (thickened base)	LF	80	\$	131.00	\$	10,480.00	\$ 131.00		-	-
	Soil Loosening (P)	SY	985	\$	8.00	\$	7,880.00	\$ 8.00		\$	-
	Reinstall Salvaged Topsoil	CY	83	\$	15.00	\$	1,245.00	\$ 15.00		\$	-
	Seeding	AC	0.2	\$	3,800.00	\$	760.00	\$ 3,800.00		\$	-
	Erosion Control Blanket (Type 2S, 100% Biodegradable)	SY	985	\$	2.85	\$	2,807.25	\$ 2.8		\$	-
TT	Perennial (4" Plug) (P)	EA	46	\$	8.33	\$	383.18	\$ 8.33	0	\$	-
	TOTAL				BID TOTAL		323,711.43		TOTAL		60,802.20

^{*} NOTE: Items noted as **BOLD** indicate a change from original bid quantities.

Cottage Place Wetland Restoration Progress Payment Number 2 - Dimke Excavating

1.0	Total Com	pleted Through Th	is Perio	d:	\$176,997.90			
2.0	Total Prev	iously Completed:		_		\$	58,547.00	
3.0	Total Com	pleted This Period					3	\$118,450.90
4.0	Amount P	reviously Retained	:				\$2,927.35	().
5.0	Amount R	etained This Period	l (See N	lote 1):		4		\$5,922.55
6.0	Total Amo	unt Retained (See	Note 1)):			\$8,849.90	
7.0	Retainage	Released Through	This Pe	eriod:			-	\$0.00
8.0	Total Reta	inage Remaining:					\$8,849.90	Χ-
9.0	Amount P	reviously Paid:			\$55,619.65			
10.0	Amount D	ue This Estimate:						\$112,528.36
	a rate of 5%							
Note 2:	_	ontract price:	\$	314,197.25				
	Change Or		\$	1,419.00				
	Current co	ontract price:	\$	315,616.25				
SUBMITTE	D BA:						5 /2 /2 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	
Name:		Brandon Donova	<u>1</u>	Date: _			5/2/2025	
Title:		Project Manager	- 16					
Contractor	:	Dimke Excavating	inc.	Yê				
Signature:		Brandon S	Dono	van			<u> </u>	
RECOMME	ENDED BY:							
Name:		Brendan Doughe	rty	Date:			5/2/2025	
Title:		Project Engineer	200	-			**	
Engineer:		Barr Engineering	Compa	ny				
Signature:		Brende L	Tough	henty				
		-		-				
APPROVED	BY:							
Name:		Val Eisele		Date: _				
Title:		President						
Owner:		Ramsey-Washing	ton Me	tro Watershed	District	_		
Signature:								

Cottage Place Wetland Restoration Ramsey-Washington Metro Watershed District Summary of Work Completed Through May 2, 2025 for Progress Payment Number 2

						Total Completed	d Through this Period	Total Complete Previous Pe	-	Complete	Period	
ltem	Description	Unit	Bidding Estimated Quantity	Unit Price	Extension	Quantity	Amount	Quantity	Amount	Quantity		Amount
Α	Mobilization	LS	1	\$29,875.00	\$ 29,875.00			0.0	\$ -	0.8	\$	23,900.00
В	Vehicle and Pedestrian Traffic Control	LS	1	\$5,500.00	\$ 5,500.00	1	\$ 5,500.00	0.0	\$ -	1.0	\$	5,500.00
С	Construction Layout and Staking	LS	1	\$5,750.00	\$ 5,750.00	0.8	\$ 4,312.50	0.0	\$ ==	0.8	\$	4,312.50
D	Rock Construction Exit	EA	1	\$1,725.00	\$ 1,725.00	0.8	\$ 1,380.00	0.8	\$ 1,380.00	0.0	\$	
E	Rock Filter Dike	EA	2	\$2,650.00	\$ 5,300.00	9.8	\$	0.0	\$ -	0.0	\$	1
F	Inlet Protection	EA	5	\$265.00	\$ 1,325.00	4	\$ 1,060.00	0.0	\$ -	4.0	\$	1,060.00
G	Silt Fence	LF	2255	\$3.35	\$ 7,554.25	527	\$	0.0	\$ -	0.0	\$	20:
н	Sediment Control Log	LF	767	\$3.45	\$ 2,646.15	2,715	\$ 9,366.75	260.0	\$ 897.00	2455.0	\$	8,469.75
	Tree Protection Fencing	LF	501	\$8.00	\$ 4,008.00	15 E	\$	0.0	\$	0.0	\$	ಚ
J	Clearing and Grubbing (<8" Caliper Trees and Shrubs)	LS	1	\$12,875.00	\$ 12,875.00	1	\$ 12,875.00	1.0	\$ 12,875.00	0.0	\$	5.
K	Remove and Dispose Tree (>8" Caliper)	EA	263	\$165.00	\$ 43,395.00	263	\$ 43,395.00	263.0	\$ 43,395.00	0.0	\$	25
L	Remove Storm Sewer Pipe	LF	36	\$63.00	\$ 2,268.00	36	\$ 2,268.00	0.0	\$ =	36.0	\$	2,268.00
М	Remove and Replace Trash Grate	EA	1	\$1,185.00	\$ 1,185.00	1	\$ 1,185.00	0.0	\$ -	1.0	\$	1,185.00
N	Storm Sewer Pipe - 18" RCP	LF	75	\$165.00	\$ 12,375.00	75	\$ 12,375.00	0.0	\$	75.0	\$	12,375.00
0	18" RC Flared End Section	EA	4	\$2,650.00	\$ 10,600.00	4	\$ 10,600.00	0.0	\$ -	4.0	\$	10,600.00
P	Riprap - MnDOT Class III	CY	41	\$175.00	\$ 7,175.00	37	\$ 6,475.00	0.0	\$	37.0	\$	6,475.00
Q	Test Trenching	HOUR	8	\$200.00	\$ 1,600.00	5	\$ 1,000.00	0.0	\$ -	5.0	\$	1,000.00
R	Salvage and Respread Existing Topsoil (P)	CY	1841	\$7.00	\$ 12,887.00	1,841	\$ 12,887.00	0.0	\$	1841.0	\$	12,887.00
S	Common Excavation (P)	CY	1194	\$5.75	\$ 6,865.50	1,194	\$ 6,865.50	0.0	\$ 5	1194.0	\$	6,865.50
т	Haul and Dispose of Clean Debris Offsite (P)	CY	197	\$51.00	\$ 10,047.00	59	\$ 3,029.40	0.0	\$ -	59.4	\$	3,029.40
U	Common Embankment (P)	CY	997	\$5.75	\$ 5,732.75	997	\$ 5,732.75	0.0	\$ -	997.0	\$	5,732.75
v	Grade 2 Compost	CY	123	\$64.00	\$ 7,872.00	123	\$ 7,872.00	0.0	\$ -	123.0	\$	7,872.00
w	Invasive Species Removal and Control	EA	2	\$3,500.00	\$ 7,000.00	1	\$ 3,500.00	0.0	\$ -	1.0	\$	3,500.00
х	Soil Bed Preparation - Fine Grading and Power Rototilling (P)	AC	5	\$620.00	\$ 3,100.00	2±3	\$	0.0	\$ -	0.0	\$	*
γ	Herbaceous Plug	EA	1224	\$7.50	\$ 9,180.00	928	\$	0.0	\$	0.0	\$	85
Z	Shrub (#2 Gallon Container)	EA	85	\$83.00	\$ 7,055.00	573	\$ -	0.0	\$ -	0.0	\$	*.
AA	Shrub (#5 Gallon Container)	EA	137	\$87.50	\$ 11,987.50	340	\$	0.0	\$ -	0.0	\$	25
ВВ	Deciduous Tree (#10, Cont.)	EA	55	\$400.00	\$ 22,000.00	276	\$	0.0	\$ -	0.0	\$	
cc	Native Seeding (Mesic) (P)	AC	1.9	\$3,100.00	\$ 5,890.00	243	\$ -	0.0	\$ -	0.0	\$	8
DD	Native Seeding (Upland) (P)	AC	0.4	\$2,475.00	\$ 990.00	(E)	\$	0.0	\$	0.0	\$	8
EE	Native Seeding (Wetland) (P)	AC	2.7	\$3,100.00	\$ 8,370.00	580	\$	0.0	\$ -	0.0	\$	8
FF	Erosion Control Blanket	SY	1855	\$3.60	\$ 6,678.00	524	\$	0.0	\$	0.0	\$	-
GG	Straw Mulch	AC	4.6	\$916.00	\$ 4,213.60	S76	\$ -	0.0	\$ -	0.0	\$	*
НН	Twice Shredded Hardwood Mulch (P)	СУ	9	\$87.50	\$ 787.50	8-2	\$	0.0	\$	0.0	\$	= = =
II	Vegetation Establishment Year 1	LS	1	\$9,785.00	\$ 9,785.00	23	\$ 58.5	0.0	\$ 5	0.0	\$	Rž.
L	Vegetation Establishment Year 2	LS	1	\$9,300.00	\$ 9,300.00	3+3	\$ ===	0.0	\$ -	0.0	\$	20
KK	Vegetation Establishment Year 3	LS	1	\$9,300.00	\$ 9,300.00	250	\$	0.0	\$ -	0.0	\$	70
CO1	Removal of Tree House and Disposal of Materials	LS	1	\$ 1,419.00	\$ 1,419.00	1	\$ 1,419.00	0.0	\$ -	1.0	\$	1,419.00
		тот	AL BASE BID		\$ 314,197.25	1	\$ 176,997.90		\$ 58,547.00		\$	118,450.90

2 of 2 PayApp_2_CP_Dimke.xlsx

2025 Capital Improvement Project (CIP) Progress Payment Number 4

1.0	Total Completed Through This Period:		\$788,223.37		
2.0	Total Completed Previously Completed:			\$694,386.00	
3.0	Total Completed This Period:				\$93,837.3
4.0	Amount Previously Retained:			\$34,719.30	
5.0	Amount Retained This Period:				\$4,691.8
6.0	Total Amount Retained:			\$39,411.17	
7.0	Retainage Released Through This Period:				\$0.0
8.0	Total Retainage Remaining:			\$39,411.17	
9.0	Amounts Previously Paid:	•	\$659,666.70		
10.0	Amount Due This Estimate:				\$89,145.5
Retainage	shall be 5 percent of the value of the Work	complet	ed.		
SUBMITTE	ED BY:				
Name:	Jason Fitzgerald	Date:	5/22/20	25	
Title:	President				
Contracto	r: Fitzgerald Excavating Inc.				
	1				
Signature:	h				
25001414					
	ENDED BY: /				
Name:	Brad Lindaman	Date:	2025.05	5.20	
Title:	Project Engineer				
Engineer:	Barr Engineering Company	***************************************			
Signature:	Bellil			and a second	
APPROVE	D BY:				
Name:	Val Eisele	Date:			
Title:	President				
Owner:	Ramsey-Washington Metro W	atershed	District	_	
Signature:					

								(3) Total Completed This Period			
Item	Description	Unit	Estimated Quantity	Unit Price	Extension	Quantity	Amount	Quantity	Amount	Quantity	Amount
General											
А	Mobilization/Demobilization	L.S.	1	\$205,000.00	\$205,000.00	1.0	\$205,000.00	0.8	\$164,000.00	0.2	\$41,000.00
В	Control of Water	L.S.	1	\$25,000.00	\$25,000.00	1.0	\$25,000.00	0.8	\$20,000.00		\$5,000.00
С	Traffic Control	L.S.	1	\$25,000.00	\$25,000.00	1.0	\$25,000.00		\$20,000.00	 	\$5,000.00
Site 1 - Ta	marack Swamp, Woodbury (PFS Basins Cleaning/Sweeping)								. ,		
D	Sediment/Muck Cleanout Excavation, Loading, Hauling and Offsite Delivery of Unregulated Material (SRV Level 1)	Ton	92	\$20.00	\$1,840.00	92	\$1,840.00	o	\$0.00	92	\$1,840.00
E	Disposal Only Fee for Regulated Material (SRV Level 2 and 3)	Ton	92	\$13.00	\$1,196.00	92	\$1,196.00	0	\$0.00	92	\$1,196.00
F	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	100	\$4.00	\$400.00	0	\$0.00		\$0.00		\$0.00
G	Sediment Log (9-Inch Diameter)	L.F.	60	\$3.00	\$180.00	θ	\$0.00	0	\$0.00		\$0.00
Н	Paver Sweeping	S.Y.	1,400	\$10.00	\$14,000.00	1,400	\$14,000.00	700	\$7,000.00		\$7,000.00
Site 2 - Lo	wer Afton Road, Maplewood (Drainageway Sediment Removal)								10.00		
D	Sediment/Muck Cleanout Excavation, Loading, Hauling and Offsite Delivery of Unregulated Material (SRV Level 1)	Ton	127	\$20.00	\$2,540.00	60	\$1,200.00	60	\$1,200.00	o	\$0.00
E	Disposal Only Fee for Regulated Material (SRV Level 2 and 3)	Ton	127	\$13.00	\$1,651.00	60	\$780.00	60	\$780.00	o	\$0.00
F	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	200	\$1.00	\$200.00	0	\$0.00	0	\$0.00	0	\$0.00
1	Composite Mud Mats	S.Y.	45	\$15.00	\$675.00	9	\$0.00	o	\$0.00	0	\$0.00
Site 3 - Ro	oseville Middle School Splash Block Repair				1000						
J	Repair Existing Splashblock Assembly	S.F.	25	\$200.00	\$5,000.00	25	\$5,000.00	25	\$5,000.00	l ol	\$0.00
Site 4 - Ge	ervais Creek Maintenance						11 March 19 10 10 10 10 10 10 10 10 10 10 10 10 10				
D	Sediment/Muck Cleanout Excavation, Loading, Hauling and Offsite Delivery of Unregulated Material (SRV Level 1)	Ton	480	\$20.00	\$9,600.00	358	\$7,160.00	358	\$7,160.00	o	\$0.00
Ε	Disposal Only Fee for Regulated Material (SRV Level 2 and 3)	Ton	480	\$13.00	\$6,240.00	0	\$0.00	0	\$0.00	0	\$0.00
F	Site Restoration (Seeding and Erosion Control Blanket)	5.Y.	800	\$4.00	\$3,200.00	499	\$1,996.00	499	\$1,996.00	0	\$0.00
K	Remove and Dispose of Existing 1 ½" to 2" Filter Rock	L.S.	1	\$25,000.00	\$25,000.00	1	\$25,000.00	1	\$25,000.00		\$0.00
L	Clear Washed Filter Rock	Ton	50	\$75.00	\$3,750.00	53	\$3,975.00	53	\$3,975.00	0	\$0.00
M	Flotation Silt Curtain	L.F.	45	\$25.00	\$1,125.00	95	\$2,375.00	95	\$2,375.00	0	\$0.00
ı	Composite Mud Mats	S.Y.	100	\$15.00	\$1,500.00	0	\$0.00	0	\$0.00	0	\$0.00
G	Sediment Log (9-Inch Diameter)	L.F.	40	\$4.00	\$160.00	272	\$1,088.00	272	\$1,088.00	0	\$0.00
Р	Inlet Protection	Each	2	\$250.00	\$500.00	0	\$0.00	0	\$0.00	o	\$0.00
Site 5 - M	cKnight Basin Pond Maintenance										
N	Construction Entrance	Each	1	\$3,000.00	\$3,000.00	1	\$3,000.00	1	\$3,000.00	ol	\$0.00
D	Sediment/Muck Cleanout Excavation, Loading, Hauling and Offsite Delivery of Unregulated Material (SRV Level 1)	Ton	7,853	\$20.00	\$157,060.00	4,721	\$94,420.00	4,721	\$94,420.00	0	\$0.00
E	Disposal Only Fee for Regulated Material (SRV Level 2 and 3)	Ton	7,853	\$13.00	\$102,089.00	θ	\$0.00	0	\$0.00	o	\$0.00
F	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	1,000	\$4.00	\$4,000.00	3,363	\$13,452.00	3,363	\$13,452.00	o	\$0.00
G	Sediment Log (9-Inch Diameter)	L.F.	200	\$4.00	\$800.00	0	\$0.00	0	\$0.00	0	\$0.00
ŀ	Composite Mud Mats	S.Y.	30	\$15.00	\$450.00	9	\$0.00	0	\$0.00	0	\$0.00
Р	Inlet Protection	Each	2	\$250.00	\$500.00	9	\$0.00	0	\$0.00	0	\$0.00

		,				(1) Total Com Through This	•	(2) Total Co Previous Pe	-	(3) Total Comp This Period	·	
item	Description	Unit	Estimated Quantity	Unit Price	Extension	Quantity	Amount	Quantity	Amount	Quantity	Amount	
Site 6 - M	aple Hills. Pond Maintenance								100 mg (100 mg)			
N	Construction Entrance	Each	1	\$3,000.00	\$3,000.00	1	\$3,000.00	1	\$3,000.00	0	\$0.00	
D	Sediment/Muck Cleanout Excavation, Loading, Hauling and Offsite Delivery of Unregulated Material (SRV Level 1)	Ton	1,074	\$20.00	\$21,480.00	582	\$11,640.00	582	\$11,640.00	0	\$0.00	
Е	Disposal Only Fee for Regulated Material (SRV Level 2 and 3)	Ton	1,074	\$13.00	\$13,962.00	9	\$0.00	0	\$0.00	0	\$0.00	
F	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	500	\$4.00	\$2,000.00	653	\$2,612.00	653	\$2,612.00	o	\$0.00	
М	Flotation Silt Curtain	L.F.	175	\$25.00	\$4,375.00	0	\$0.00	0	\$0.00	o	\$0.00	
G	Sediment Log (9-Inch Diameter)	L.F.	40	\$4.00	\$160.00	0	\$0.00	o	\$0.00	o	\$0.00	
0	MN/DOT Class III Riprap (Field Stone) with Geotextile Filter Fabric	Ton	20	\$120.00	\$2,400.00	20	\$2,400.00	20	\$2,400.00	o	\$0.00	
Site 7 - Po	nd 9 Maintenance											
N	Construction Entrance	Each	1	\$1,000.00	\$1,000.00	1	\$1,000.00	1	\$1,000.00	ol	\$0.00	
D	Sediment/Muck Cleanout Excavation, Loading, Hauling and Offsite Delivery of Unregulated Material (SRV Level 1)	Ton	1,470	\$20.00	\$29,400.00	1,218	\$24,360.00	1,218	\$24,360.00	0	\$0.00	
Ε	Disposal Only Fee for Regulated Material (SRV Level 2 and 3)	Ton	1,470	\$13.00	\$19,110.00	0	\$0.00	0	\$0.00	o	\$0.00	
F	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	200	\$4.00	\$800.00	150	\$600.00	150	\$600.00	o	\$0.00	
G	Sediment Log (9-Inch Diameter)	L.F.	60	\$4.00	\$240.00	θ	\$0.00	0	\$0.00	o	\$0.00	
0	MN/DOT Class III Riprap (Field Stone) with Geotextile Filter Fabric	Ton	10	\$120.00	\$1,200.00	10	\$1,200.00	10	\$1,200.00	0	\$0.00	
P	Inlet Protection	Each	2	\$250.00	\$500.00	2	\$500.00		\$500.00	0	\$0.00	
Site 8 - Ma	spie Leaf Pond Maintenance	<u>-</u>						<u> </u>				
D	Sediment/Muck Cleanout Excavation, Loading, Hauling and Offsite Delivery of Unregulated Material (SRV Level 1)	Ton	342	\$20.00	\$6,840.00	366	\$7,320.00	366	\$7,320.00	o	\$0.00	
E	Disposal Only Fee for Regulated Material (SRV Level 2 and 3)	Ton	342	\$13.00	\$4,446.00	426	\$5,538.00	426	\$5,538.00	0	\$0.00	
F	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	100	\$4.00	\$400.00	158	\$632.00	158	\$632.00	0	\$0.00	
G	Sediment Log (9-Inch Diameter)	L.F.	40	\$4.00	\$160.00	9	\$0.00	0	\$0.00	0	\$0.00	
1	Composite Mud Mats	S.Y.	130	\$15.00	\$1,950.00	130	\$1,950.00	130	\$1,950.00	0	\$0.00	
0	MN/DOT Class III Riprap (Field Stone) with Geotextile Filter Fabric	Ton	10	\$120.00	\$1,200.00	10	\$1,200.00	10	\$1,200.00	0	\$0.00	
Р	Inlet Protection	Each	2	\$250.00	\$500.00	1	\$250.00	1	\$250.00	0	\$0.00	
Site 9 - Ha	rbor Place Pond Maintenance			0000 0 400			-11					
N	Construction Entrance	Each	1	\$1,000.00	\$1,000.00	1	\$1,000.00	1	\$1,000.00	0	\$0.00	
D	Sediment/Muck Cleanout Excavation, Loading, Hauling and Offsite Delivery of Unregulated Material (SRV Level 1)	Ton	45	\$20.00	\$900.00	40	\$800.00	40	\$800.00	o	\$0.00	
E	Disposal Only Fee for Regulated Material (SRV Level 2 and 3)	Ton	45	\$13.00	\$585.00	40	\$520.00	40	\$520.00	o	\$0.00	
F	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	150	\$4.00	\$600.00	31	\$124.00	 	\$124.00	0	\$0.00	
G	Sediment Log (9-Inch Diameter)	L.F.	20	\$4.00	\$80.00	0	\$0.00	0	\$0.00	0	\$0.00	
Q	Remove Select Tree	Each	1	\$300.00	\$300.00	6	\$0.00	0	\$0.00	o	\$0.00	
0	MN/DOT Class III Riprap (Field Stone) with Geotextile Filter Fabric	Ton	10	\$120.00	\$1,200.00	0	\$0.00	0	\$0.00	0	\$0.00	
Site 10 - A	rlington Ave. & Drie St. Pond Maintenance			,						-		
N	Construction Entrance	Each	1	\$1,000.00	\$1,000.00	1	\$1,000.00	1	\$1,000.00	o	\$0.00	
D	Sediment/Muck Cleanout Excavation, Loading, Hauling and Offsite Delivery of Unregulated Material (SRV Level 1)	Ton	816	\$20.00	\$16,320.00	818	\$16,360.00	818	\$16,360.00	0	\$0.00	

						(1) Total Comp Through This F		1' ' '		(3) Total Compl This Period	eted
ltem	Description	Unit	Estimated Quantity	Unit Price	Extension	Quantity	Amount	Quantity	Amount	Quantity	Amount
Ε	Disposal Only Fee for Regulated Material (SRV Level 2 and 3)	Ton	816	\$13.00	\$10,608.00	818	\$10,634.00	818	\$10,634.00	0	\$0.00
F	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	400	\$4.00	\$1,600.00	197	\$788.00	197	\$788.00	0	\$0.00
G	Sediment Log (9-Inch Diameter)	L.F.	40	\$4.00	\$160.00	θ	\$0.00	0	\$0.00	0	\$0.00
Q	Remove Select Tree	Each	3	\$300.00	\$900.00	3	\$900.00	3	\$900.00	0	\$0.00
0	MN/DOT Class III Riprap (Field Stone) with Geotextile Filter Fabric	Ton	10	\$120.00	\$1,200.00	10	\$1,200.00	10	\$1,200.00	0	\$0.00
Site 11 - Ko	owalski Ponds Maintenance					7. F. L. (2017) A. L.					
N	Construction Entrance	Each	2	\$3,000.00	\$6,000.00	1	\$3,000.00	1	\$3,000.00	o	\$0.00
D	Disposal Only Fee for Regulated Material (SRV Level Sediment/Muck Cleanout Excavation, Loading, Hauling and Offsite Delivery of Unregulated Material (SRV Level 1)	Ton	1,400	\$20.00	\$28,000.00	1,495	\$29,900.00	1,495	\$29,900.00	o	\$0.00
E	Disposal Only Fee for Regulated Material (SRV Level 2 and 3)	Ton	1,400	\$13.00	\$18,200.00	1,495	\$19,435.00	1,495	\$19,435.00	О	\$0.00
F	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	1,500	\$4.00	\$6,000.00	670	\$2,680.00	670	\$2,680.00	0	\$0.00
G	Sediment Log (9-Inch Diameter)	L.F.	1	\$4.00	\$4.00	0	\$0.00	0	\$0.00	o	\$0.00
Q	Remove Select Tree	Each	2	\$300.00	\$600.00	6	\$1,800.00	6	\$1,800.00	0	\$0.00
0	MN/DOT Class III Riprap (Field Stone) with Geotextile Filter Fabric	Ton	30	\$120.00	\$3,600.00	0	\$0.00	0	\$0.00		\$0.00
Р	Inlet Protection	Each	2	\$250.00	\$500.00	1	\$250.00	1	\$250.00		\$0.00
Site 12 - Ko	ohlman Lake Maintenance			0.0470 (0.0000)						-	7
N	Construction Entrance	Each	1	\$2,000.00	\$2,000.00	9	\$0.00	0	\$0.00	ol	\$0.00
D	Sediment/Muck Cleanout Excavation, Loading, Hauling and Offsite Delivery of Unregulated Material (SRV Level 1)	Ton	371	\$20.00	\$7,420.00	632	\$12,640.00	632	\$12,640.00		\$0.00
Ε	Disposal Only Fee for Regulated Material (SRV Level 2 and 3)	Ton	371	\$13.00	\$4,823.00	0	\$0.00	0	\$0.00	0	\$0.00
F	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	300	\$4.00	\$1,200.00	74	\$296.00	74	\$296.00	o	\$0.00
G	Sediment Log (9-Inch Diameter)	L.F.	120	\$4.00	\$480.00	9	\$0.00	0	\$0.00	· · · · · · · · · · · · · · · · · · ·	\$0.00
М	Flotation Silt Curtain	L.F.	380	\$25.00	\$9,500.00	250	\$6,250.00	250	\$6,250.00		\$0.00
N	Composite Mud Mats	S.Y.	200	\$15.00	\$3,000.00	200	\$3,000.00	200	\$3,000.00		\$0.00
Р	Inlet Protection	Each	2	\$250.00	\$500.00	0	\$0.00	0	\$0.00	0	\$0.00
0	MN/DOT Class III Riprap (Field Stone) with Geotextile Filter Fabric	Ton	10	\$120.00	\$1,200.00	0	\$0.00	0	\$0.00	0	\$0.00
R	Remove and Dispose of Existing Catch Basin Manhole	L.S.	1	\$1,500.00	\$1,500.00	1	\$1,500.00	1	\$1,500.00	o	\$0.00
S	60" Precast Catch Basin Manhole with 4' Sump, Complete	L.S.	1	\$25,000.00	\$25,000.00	1	\$25,000.00	0	\$0.00	1	\$25,000.00
Site 13 - SC	220 Pond Maintenance							<u> </u>	70.00	-	723,000.00
N	Construction Entrance	Each	1	\$3,000.00	\$3,000.00	ø	\$0.00	ol	\$0.00	ol	\$0.00
D	Sediment/Muck Cleanout Excavation, Loading, Hauling and Offsite Delivery of Unregulated Material (SRV Level 1)	Ton	742	\$20.00	\$14,840.00	990	\$19,800.00	990	\$19,800.00	0	\$0.00
E	Disposal Only Fee for Regulated Material (SRV Level 2 and 3)	Ton	742	\$13.00	\$9,646.00	990	\$12,870.00	990	\$12,870.00	ol	\$0.00
F	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	800	\$4.00	\$3,200.00	1,356	\$5,424.00	491	\$1,964.00	865	\$3,460.00
G	Sediment Log (9-Inch Diameter)	L.F.	80	\$4.00	\$320.00	9	\$0.00	0	\$0.00	0	\$0.00
Q	Remove Select Tree	Each	1	\$300.00	\$300.00	1	\$300.00	1	\$300.00	o	\$0.00
M	Flotation Silt Curtain	L.F.	30	\$25.00	\$750.00	30	\$750.00	30	\$750.00	0	\$0.00
			30								
P	Inlet Protection	Each	4	\$250.00	\$1,000.00	2	\$500.00	2	\$500.00	ol	\$0.00

						(1) Total Com Through This	•	(2) Total Co Previous Pe	•	(3) Total Comp This Period	eted
Item	Description	Unit	Estimated Quantity	Unit Price	Extension	Quantity	Amount	Quantity	Amount	Quantity	Amount
Site 14 - SC	235 Pond Maintenance					- 4					
N	Construction Entrance	Each	1	\$1,000.00	\$1,000.00	1	\$1,000.00	1	\$1,000.00	o	\$0.0
D	Sediment/Muck Cleanout Excavation, Loading, Hauling and Offsite Delivery of Unregulated Material (SRV Level 1)	Ton	1,526	\$20.00	\$30,520.00	2,303	\$46,060.00		\$46,060.00	<u> </u>	\$0.0
E	Disposal Only Fee for Regulated Material (SRV Level 2 and 3)	Ton	1,526	\$13.00	\$19,838.00	2,303	\$29,939.00	2,303	\$29,939.00	0	\$0.0
F	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	1,000	\$4.00	\$4,000.00	457	\$1,828.00	457	\$1,828.00	0	\$0.0
G	Sediment Log (9-Inch Diameter)	L.F.	100	\$4.00	\$400.00	0	\$0.00	0	\$0.00	0	\$0.0
Q	Remove Select Tree	Each	1	\$300.00	\$300.00	1	\$300.00	1	\$300.00	0	\$0.0
М	Flotation Silt Curtain	L.F.	30	\$25.00	\$750.00	50	\$1,250.00	50	\$1,250.00	0	\$0.00
P	Inlet Protection	Each	2	\$250.00	\$500.00	2	\$500.00	2	\$500.00	0	\$0.0
0	MN/DOT Class III Riprap (Field Stone) with Geotextile Filter Fabric	Ton	20	\$120.00	\$2,400.00	θ	\$0.00	0	\$0.00	0	\$0.00
			Contract Base	e Extensions =	\$969,123.00	\$969,123.00 \$758,882.0		0 \$669,386.00			\$89,496.00
Change Or	der 1						and the second		100		
C.O.1.A	Woodbury Ponds - Overflow Structure Replacement	Each	2	\$12,500.00	\$25,000.00	2	\$25,000.00	2	\$25,000.00	l ol	\$0.00
C.O.3.A	County Rd C E - Structure Connection Modifications	L.S.	1	\$3,341.37	\$3,341.37	1	\$3,341.37	0	\$0.00	1	\$3,341.3
C.O.3.B	Woodbury Pond SC220 - Structure Connection Modifications	L.S.	1	\$1,000.00	\$1,000.00	1	\$1,000.00	0	\$0.00	1	\$1,000.0
			Change Orde	r Extensions =	\$29,341.37		\$29,341.37		\$25,000.00		\$4,341.3
		Contract Grand Total = \$					\$788,223.37		\$694,386.00		\$93,837.37

Beltline Mississippi River Branch Outfall Replacement Progress Payment 5

1.0	Total Com	pleted Through This Period	d: _	\$1,054,943.75		
2.0	Total Com	pleted Previously Complet	ed:		\$883,575.00	
3.0	Total Com	pleted This Period:				\$171,368.75
4.0	Amount P	reviously Retained:			\$44,178.75	
5.0	Amount R	etained This Period:				\$8,568.44
6.0	Total Amo	unt Retained:			\$52,747.19	
7.0	Retainage	Released Through This Per	riod:			\$0.00
8.0	Total Reta	inage Remaining:			\$52,747.19	
9.0	Amounts F	Previously Paid:	3-	\$586,838.75		
10.0	Amount D	ue This Estimate:				\$162,800.31
Retainage s	shall be 5 po	ercent of the value of the \	Work complet	ed.		
SUBMITTE	D BY:					
Name:		Josh Phleger	Date:_			
Title:		Project Manager				
Contractor		Minger Construction Com	panies, Inc.			
Signature:		Joshua M. Phl	Digitally sig DN: C=12: CN=Joshua Date: 2025.	ned by Joshua M. Phileger E=joshg@mingercorst.com, O="Minger Construction In M. Phileger J. 14 13:00:56-0500"	c." ,	
RECOMME	NDED BY:					
Name:		Joe Welna	Date:_	5/13/202	25	
Title:		Project Manager				
Engineer:		Barr Engineering Co.				
Signature:		Ca/Weba				
APPROVED	BY:					
Name:		Val Eisele	Date:			
Title:		President	* t .=			
Owner:		Ramsey-Washington Met	ro Watershed	District	_	
Signature:						

Beltline Mississippi River Branch Outfall Replacement Ramsey-Washington Metro Watershed District Summary of Work Completed Through April 21, 2025 for Progress Payment Number 5

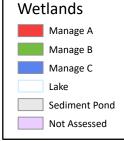
						(1) Total Com	•	(2) Total Comple	ted	(3) Total Com	pleted
						Through This	Period	Previous Period		This Period	
			Estimated			1					
Item	Description	Unit	Quantity	Unit Price	Extension	Quantity	Amount	Quantity	Amount	Quantity	Amount
1/	Mobilization - Permits, Bonds, Exploratory	LS	1	\$7,725.00	\$7,725.00	1.00	\$7,725.00	1.00	\$7,725.00	0.00	\$0.00
16	Mobilization - River Cofferdam	LS	1	\$19,275.00	\$19,275.00	1.00	\$19,275.00	1.00	\$19,275.00	0.00	\$0.00
10	Mobilization - Pipe and MH Shoring	LS	1	\$20,000.00	\$20,000.00	1.00	\$20,000.00	1.00	\$20,000.00	0.00	\$0.00
10	Mobilization - Clean Up	LS	1	\$4,500.00	\$4,500.00	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00
	Construction Layout and Staking	LS	1	\$5,000.00	\$5,000.00	0.70	\$3,500.00	0.70	\$3,500.00	0.00	\$0.00
;	Traffic Control	LS	1	\$1,500.00	\$1,500.00	1.00	\$1,500.00	0.85	\$1,275.00	0.15	\$225.00
4	4 Sediment Control Log	LF	250	\$5.00	\$1,250.00	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00
	Flotation Silt Curtain	LF	40	\$20.00	\$800.00	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00
(Temporary Construction Entrance	EA	1	\$2,500.00	\$2,500.00	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00
7,4	A Dewatering and Control of Water - Deep Wells	LS	1	\$150,000.00	\$150,000.00	1.00	\$150,000.00	0.85	\$127,500.00	0.15	\$22,500.00
7E	B Dewatering and Control of Water - Storm Bulkhead & Bypass	LS	1	\$63,000.00	\$63,000.00	1.00	\$63,000.00	1.00	\$63,000.00	0.00	\$0.00
70	Dewatering and Control of Water - Cofferdam Dewatering	LS	1	\$15,000.00	\$15,000.00	1.00	\$15,000.00	0.85	\$12,750.00	0.15	\$2,250.00
8.8	Temporary Excavation Support - River Cofferdam	LS	1	\$200,000.00	\$200,000.00	0.70	\$140,000.00	0.70	\$140,000.00	0.00	\$0.00
88	Temporary Excavation Support - RCP Shoring	LS	1	\$150,000.00	\$150,000.00	1.00	\$150,000.00	0.95	\$142,500.00	0.05	\$7,500.00
80	Temporary Excavation Support - MH Shoring	LS	1	\$100,000.00	\$100,000.00	1.00	\$100,000.00	0.95	\$95,000.00	0.05	\$5,000.00
Ç	Common Excavation (P)	CY	600	\$25.00	\$15,000.00	600.00	\$15,000.00	600.00	\$15,000.00	0.00	\$0.00
10	Removal and Disposal of 9' Dia. Steel Pipe and Transition Section	LF	52	\$75.00	\$3,900.00	52.00	\$3,900.00	52.00	\$3,900.00	0.00	\$0.00
1.	1 Saw Cut Existing 9' Dia. RCP	LS	1	\$5,500.00	\$5,500.00	1.00	\$5,500.00	1.00	\$5,500.00	0.00	\$0.00
12	Removal and Disposal of Storm Vault	LS	1	\$9,000.00	\$9,000.00	1.00	\$9,000.00	1.00	\$9,000.00	0.00	\$0.00
13	Modify Existing Sheet Pile Wall	LS	1	\$9,000.00	\$9,000.00	1.00	\$9,000.00	0.75	\$6,750.00	0.25	\$2,250.00
14	1 Crushed Stone Bedding	TON	60	\$85.00	\$5,100.00	60.00	\$5,100.00	60.00	\$5,100.00	0.00	\$0.00
15	Construct Manhole Structure	LS	1	\$120,000.00	\$120,000.00	1.00	\$120,000.00	0.45	\$54,000.00	0.55	\$66,000.00
16	9' Dia. Class III RCP	LF	51	\$1,900.00	\$96,900.00	51.00	\$96,900.00	51.00	\$96,900.00	0.00	\$0.00
17	Connect Existing 9' Dia. RCP to Manhole Structure	LS	1	\$10,000.00	\$10,000.00	1.00	\$10,000.00	0.00	\$0.00	1.00	\$10,000.00
18	Connect 9' Dia. RCP to Manhole Structure	LS	1	\$10,000.00	\$10,000.00	1.00	\$10,000.00	0.00	\$0.00	1.00	\$10,000.00
19	RCP Collar and Sheet Pile Wall Interface	LS	1	\$17,500.00	\$17,500.00	1.00	\$17,500.00	0.00	\$0.00	1.00	\$17,500.00
20	Lean Concrete Backfill	CY	110	\$475.00	\$52,250.00	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00
2	1 Timber Bumper	LF	20	\$225.00	\$4,500.00	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00
22	Common Backfill (P)	CY	230	\$20.00	\$4,600.00	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00
23	Class 5 Aggregate	TON	70	\$70.00	\$4,900.00	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00
	Common Excavation, Stockpile and Dispose of Regulated Material (P)	TON	528	\$60.00	\$31,680.00	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00
			Contract P	ase Extensions =	¢1 140 380 00		\$971,900.00		\$828,675.00		\$143,225.00
Change Or	der 1		Contract B	ase Extensions =	\$1,140,380.00		77,1,500.00		\$020,075.00		\$145,225.00
CO	01.A Additional Site Investigation	LS	1	\$6,000.00	\$6,000.00	1.00	\$6,000.00	1	\$6,000.00	0.00	\$0.00
	01B Access Hatch Replacement	LS	1	\$6,900.00	\$6,900.00	1.00	\$6,900.00	1	\$6,900.00	0.00	\$0.00
CO	Excavation Support Modifications	LS	1	\$60,000.00	\$60,000.00	1.00	\$60,000.00	1	\$42,000.00	0.30	\$18,000.00
CO	Tie-rod and Deadmen Repairs	LS	1	\$67,625.00	\$67,625.00	0.15	\$10,143.75	0	\$0.00	0.15	\$10,143.75
			Change Or	der Extensions =	\$140,525.00		\$83,043.75		\$54,900.00		\$28,143.75
			Contra	ct Grand Total =	\$1,280,905.00		\$1,054,943.75		\$883,575.00		\$171,368.75

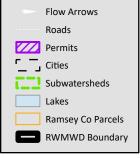
Permit Application Coversheet

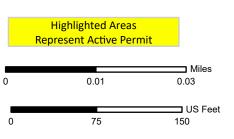
Date June 04, 2025
Project Name RWMWD Lake Wabasso Outlet Replacement Project Number 25-15
Applicant Name Paige Ahlborg, RWMWD
Type of Development Maintenance
Property Description This project is located on the north side of Lake Wabasso in the City of Shoreview. The proposed RWMWD-led project includes removal and replacement of the existing lake outlet to prevent seepage and avoid averse impacts to floodplain elevations. The current outlet was constructed in 1971 and has reached the end of its design life. An existing foot bridge structure will be removed at the request of one of the adjacent property owners due to trespassing concerns. RWMWD staff will continue to have access to the new outlet structure to allow for monitoring of water levels in the lake. The total disturbed area is 0.21 acre, thus permanent stormwater management is not required. Work is being conducted in the 100-year floodplain, however there is no net fill being proposed. A DNR Public Waters permit for work below the Ordinary High Water Level (OHWL) has been submitted for processing.
Watershed District Policies or Standards Involved:
☐ Wetlands
☐ Stormwater Management 🗹 Floodplain
Water Quantity Considerations
There are no water quantity concerns.
Water Quality Considerations Short Term The proposed erosion and sediment control plan is sufficient to protect adjacent and downstream water resources during construction.
Long Term
There are no long-term water quality concerns.
Staff Recommendation Staff recommends approval of this permit with the special provisions.
Attachments:
✓ Project Location Map
✓ Project Grading Plan

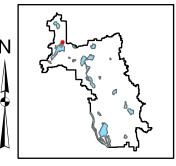
#25-15 RWMWD Lake Wabasso Outlet Replacement





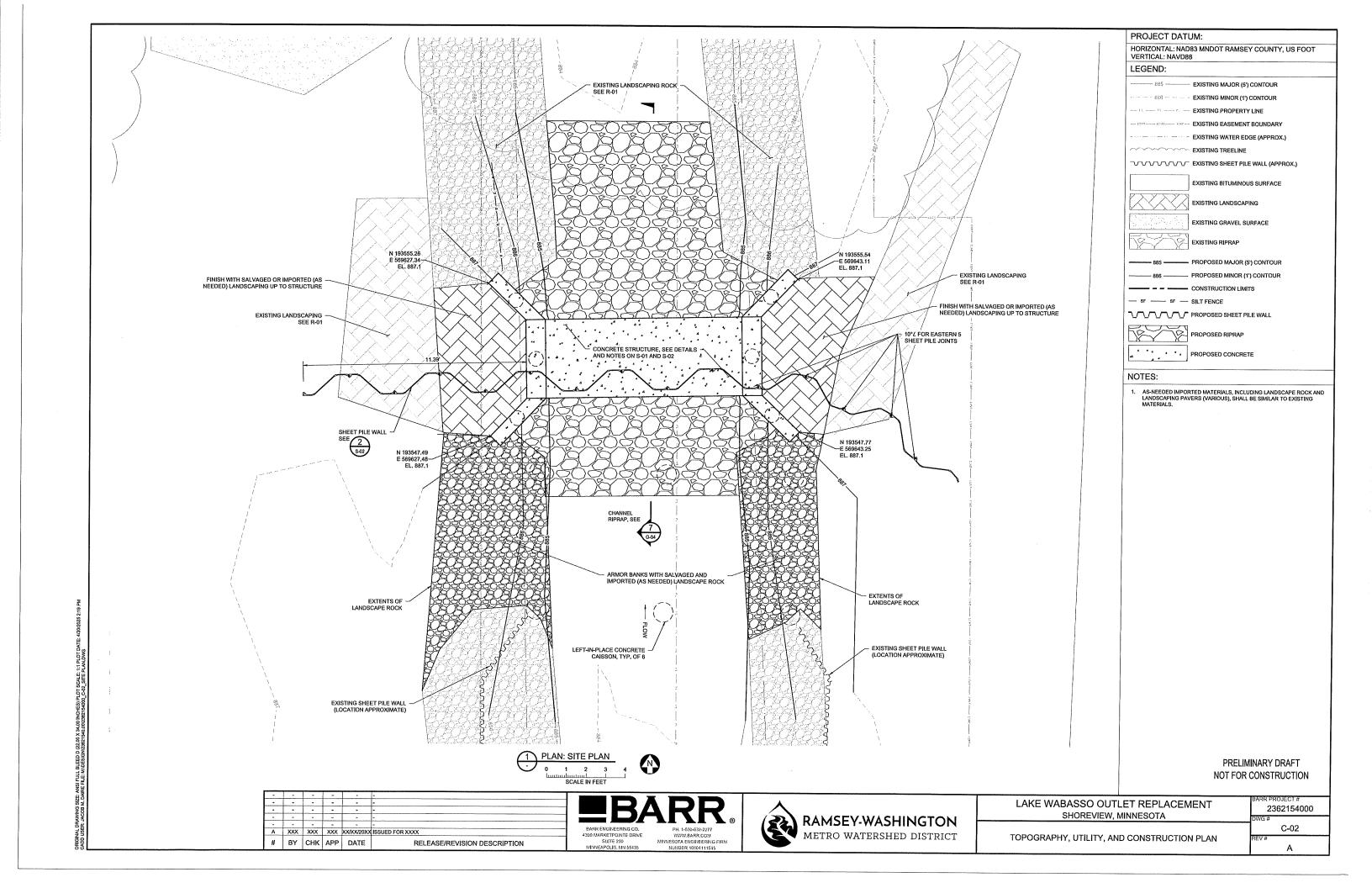






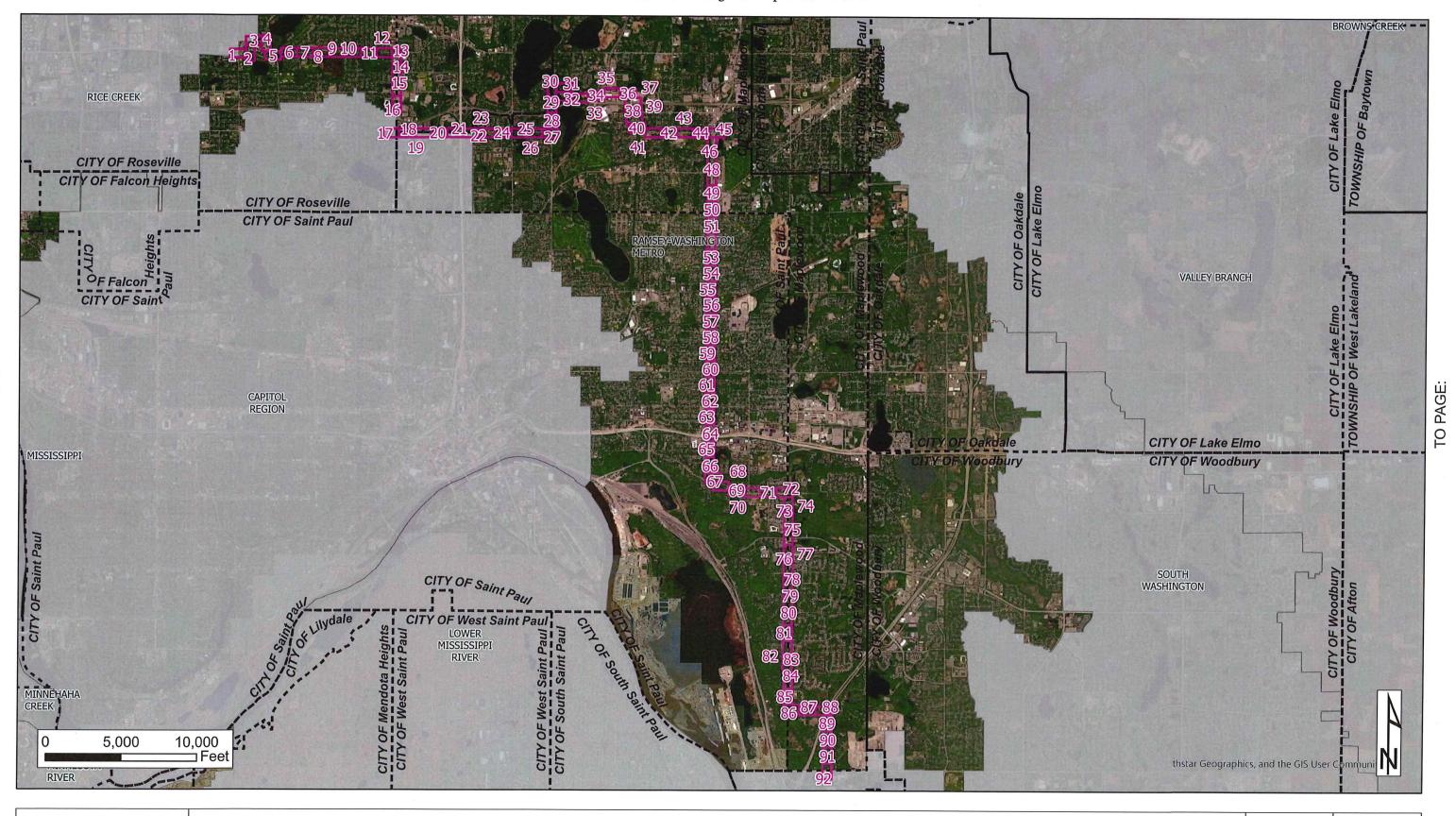
Special Provisions

- 1. The applicant shall submit contact information for the erosion control coordinator responsible for implementing the Stormwater Pollution Prevention Plan (SWPPP).
- 2. The applicant shall submit the final, signed plans set for construction.



Permit Application Coversheet

Date June 04, 2025
Project Name LTS Outer Ring Fiber Optic Installation Project Number 25-18
Applicant Name
Type of Development Utility Maintenance
Property Description
This project crosses the length of the watershed district (and also includes areas outside RWMWD). Those areas are being permitted by separate entities. Within RWMWD, the applicant is proposing to install approximately 18.35 miles of underground fiber optic utilities and due to directional boring methods the estimated disturbance area is relatively small at 0.3 acre. The small excavations for bore pits will be restored to existing conditions post-construction with any excess material hauled offsite. A Wetland Conservation Act (WCA) noloss permit was submitted for processing. No impacts to wetlands or their associated buffers are anticipated, however the directional drilling will be taking place beneath and adjacent to a number of water resources within RWMWD including Fish Creek, Battle Creek, Spoon Lake, Gervais Lake, and various wetlands. No fill within floodplain areas are proposed.
Watershed District Policies or Standards Involved:
✓ Wetlands ✓ Erosion and Sediment Control
☐ Stormwater Management ☐ Floodplain
Water Quantity Considerations There are no water quantity concerns.
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 concerns.
Staff Recommendation Staff recommends approval of this permit with the special provisions.
Attachments:
✓ Project Location Map
☐ Project Grading Plan



Mi-Tech Services, Inc. 4901 Stewart Ave. Wausau, WI 54401 715-359-9400 www.mi-tech.us

LTS - Outer Ring MSP-RG2 Ramsey-Washington Metro WD Permit Overview

Project # 12688	MSP-RG2
Data	

Date: 5/1/2025

OVERVIEW

Special Provisions

- 1. The applicant shall submit the escrow payment of \$600.
- 2. The applicant shall submit the final, signed plans set for construction.

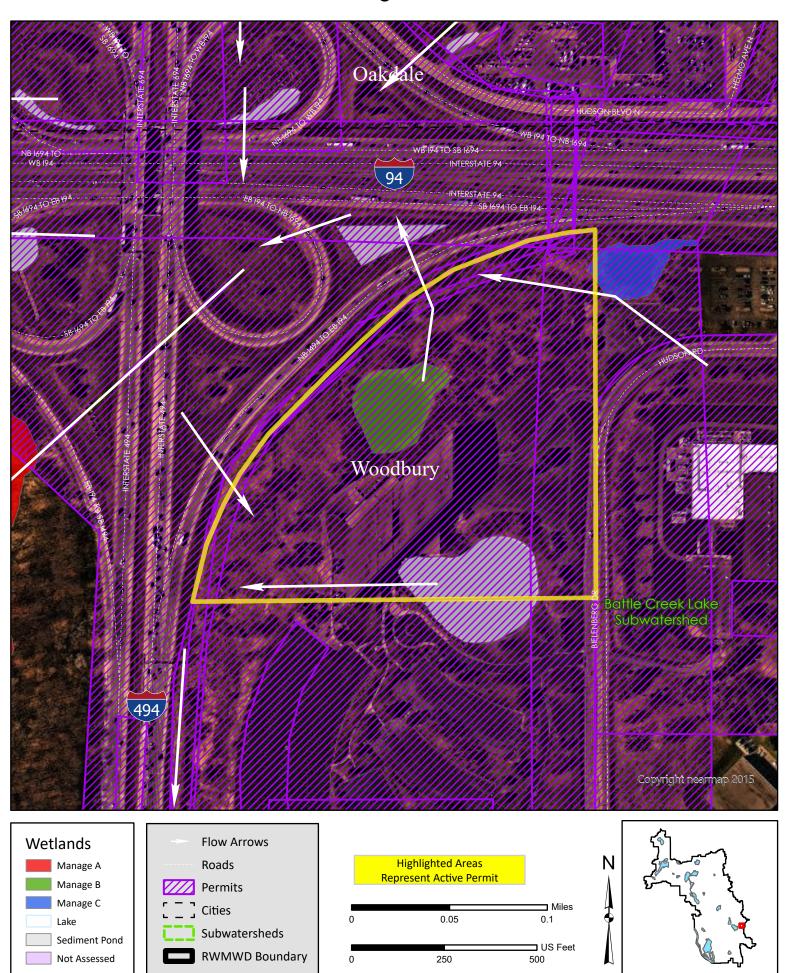
Permit Application Coversheet

Date June 04, 2025
Project Name 500 Bielenberg Phase II- Hartford Site Project Number 25-19
Applicant Name Ned Abdul, Eden Ventures, LLC
Type of Development Office
Property Description This project is located at 500 Bielenberg Drive, east of I-494 in the City of Woodbury. The applicant is proposing to redevelop the northern portion of a vacant office campus as a second phase of a larger redevelopment. The first phase was permitted separately by RWMWD (Permit #23-26). The total disturbed area for this portion of the development is approximately 8 acres. One new filtration basin (as well as the expansion of an existing second basin) are proposed to meet stormwater treatment requirements. Pretreatment will include a sediment forebay. Filtration is being proposed due to poor soils. Four wetlands were delineated with boundaries approved in July 2023 (#23-08 WCA). A subsequent Wetland Conservatoin Act (WCA) decision designated two of the wetlands as constructed/incidental (#23-16 WCA). The proposed grading plan meets District buffer requirements for the Manage B wetland on the northern end of the site. A portion of the site is located in the 100-year floodplain, however it is isolated from upstream and downstream properties. The applicant has submitted calculations to demonstrate that while a portion of the floodplain will be impacted, the proposed project will slightly reduce flood elevations on the site, achieving no adverse flood impacts.
Watershed District Policies or Standards Involved:
✓ Wetlands
✓ Stormwater Management ✓ Floodplain
Water Quantity Considerations The proposed stormwater management plan is sufficient to handle the runoff form 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

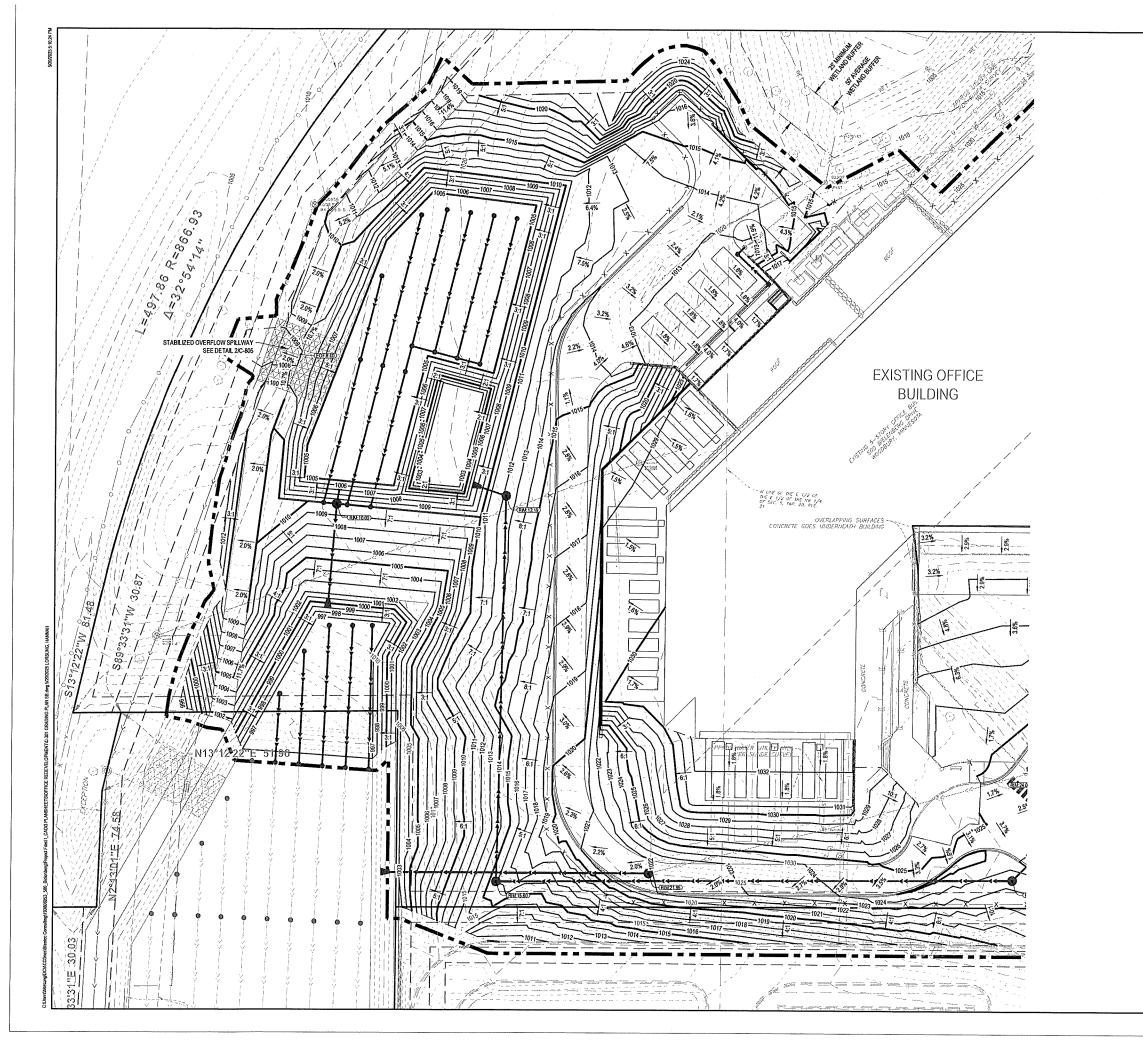
✓ Project Grading Plan

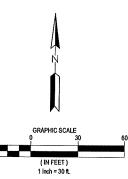
#25-19 500 Bielenberg Phase II - Hartford Site



Special Provisions

- 1. The applicant shall submit an executed stormwater maintenance agreement for the proposed (north) filtration basin.
- 2. The applicant shall submit a site-specific BMP Operations & Maintenance Plan for the proposed (north) filtration basin. The O&M Plan should include sufficient explanation in plain language for long-term inspection and maintenance purposes:
 - A. Include a narrative description of the proposed facilities.
- B. Include a labeled figure that calls out inspection and maintenance locations.
- C. Include examples of companies that complete maintenance on stormwater basins.
- 3. The applicant shall submit the final, signed geotechnical report.
- 4. The applicant shall submit the escrow payment of \$41,100.
- 5. The applicant shall submit the final, signed plans set including details/specs for final restoration/landscaping.
- 6. The applicant shall submit a copy of the approved Minnesota Pollution Control Agency's NPDES Construction Permit coverage for the project.
- 7. The applicant shall submit contact information for the trained/certified erosion control coordinator responsible for implementing the Stormwater Pollution Prevention Plan (SWPPP).





LEGEND

	PROPERTY BOUNDARY
	LOT LINE
	EASEMENT LINE
	SETBACK LINE
	RIGHT OF WAY LINE
	SECTION/QUARTER LINE
	EXISTING PROPERTY LINE
901	EXISTING MINOR CONTOUR
— — 900 — —	EXISTING MAJOR CONTOUR
901	PROPOSED MINOR CONTOUR
900 —	PROPOSED MAJOR CONTOUR
	GRADING LIMITS
	CONSTRUCTION LIMITS
(FG=9XX XX) ▼	FINISHED GRADE ELEVATION
(₩5:9XXXX) -	MATCH EXISTING ELEVATION
(EOF=9XX XX)—×	EMERGENCY OVERFLOW ELEVATION
(<u>INY=9XXXX</u>)—∗	TOP OF WALL ELEVATION
(BW=9XXXX)—▼	BOTTOM OF WALL ELEVATION (AT GRADE)
(RIVI=9XXXXX)—-■	STRUCTURE RIM SPOT ELEVATION
1.00%	SURFACE GRADE & FLOW DIRECTION
3.0:1	SURFACE SLOPE (H:V) & FLOW DIRECTION

NOTES

- SEE SHEET G-002 FOR ADDITIONAL PROJECT NOTES.
- CONTRACTOR MUST IMMEDIATELY NOTIFY THE OWNER AND ENGINEER OF DISCREPANCIES OR
 CONFLICTS IN THE CONTRACT DOCUMENTS BEFORE COMMENCING WORK. NO FIELD CHANGES OR
 DEVARTIONS ARE TO BE MADE WITHOUT PRIOR APPROVAL FROM THE OWNER AND ENGINEER.
 FAILURE TO NOTIFY OWNER AND ENGINEER OF AN IDENTIFIABLE CONFLICT BEFORE PROCEEDING
 WITH INSTALLATION RELIEVES OWNER AND ENGINEER OF ANY OBLIGATION TO PAY FOR A RELATED
 CHANGE ORDER.
- 3. EXISTING SPOT ELEVATIONS AT MATCH POINTS ARE BASED ON INTERPOLATED POINT TO POINT SURVEY DATA. CONTRACTOR IS RESPONSIBLE FOR VERIFYING CONNECTION POINTS PRIOR TO INSTALLATION OF IMPROVEMENTS. CONTRACTOR SHALL NOTIFY ENGINEER IN WIRTING IMMEDIATELY OF ANY FIELD DISCREPANCIES. CONTRACTOR IS RESPONSIBLE FOR MAKING NECESSARY ADJUSTMENTS IN THE FILED FOR CONSTRUCTABILITY, REGULATORY COMPLIANCE (ADA), POSITIVE DRAINAGE, AND TO ENSURE SMOOTH TRANSITIONS TO FIELD CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR REWORK OF A DISCREPANCY THAT IS NOT COMMUNICATED TO THE ENGINEER IN WIRTING.
- 4. PROPOSED IMPROVEMENTS ON LOTS 1, 2, AND 3 ARE SHOWN FOR REFERENCE, PER THE GOLD LINE DEVELOPMENT PUD DESIGN.
- GRADES SHOWN IN STORMMATER BASIN, ON AND NEAR ACCESS ROUTE, AT RETAINING WALLS, AND ON PROPOSED PAVEMENT ARE TO FINISHED GRADE, GRADES SHOWN ACROSS THE REMAINDER OF THE DEVELOPMENT ARE TO SUBGRADE (MASS-GRADED) ELEVATION.
- NOTIFY MARY FITZGERALD, RAMSEY-WASHINGTON METRO WATERSHED DISTRICT, AT 651-792-7956
 PRIOR TO BEGINNING CONSTRUCTION ACTIVITY TO SCHEDULE AN INITIAL EROSION CONTROL
 RISPECTION
- NOTIFY MARY FITZGERALD, RAMSEY-WASHINGTON METRO WATERSHED DISTRICT, AT 651-792-7968
 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION OF THE STORMWATER TREATMENT AREAS.
- F SOLD ISTURBANCE IS ANTICIPATED WITHIN 50 OF THE STORMWATER IREALIZED REAL REAL SET SPECIFY REDUNDANT PERIMETER CONTROL TO PROTECT WETLAND AREA.

WARNING:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING FOR LOCATIONS OF ALL EXISTING UTILITIES. THEY SHALL COOPERATE WITH ALL UTILITY COMPANIES IN MAINTAINING THEIR SERVICE ANDIOR RELOCATION OF LINES.

THE CONTRACTOR SHALL CONTACT GOPHER STATE ONE CALL AT 651-454-0002 AT LEAST 48 HOURS IN ADVANCE FOR THE LOCATIONS OF ALL UNDERGROUND WRES, CABLES, CONDUCTS, PIPES, MANHOLES, VALVES OR OTHER BURIED STRUCTURES BEFORE DIGGING. THE CONTRACTOR SHALL REPAIR OR REPLACE THE ABOVE WHEN DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.

ALL BEFORE YOU DIG

GOPHER STATE ONE CALL
TWIN CITY AREA 651-454-0002
TOLL FREE 1-400-222-1466

Stantec
733 MARQUETTE AVE
SUITE 1000
MINNEAPOLIS, MINSSH02
WWW STANTEC.COM
(612) 712-2000

EDEN VENTURES, LLC.

GOLD LINE DEVELOPMENT
HARTFORD SITE IMPROVEMENTS
CITY OF WOODBURY,
WASHINGTON COUNTY, MINNESOTA

CITY SUBMITAL 1

CERTIFICATION

PROJECT NO.: 1938050633

DWN BY: CHKD BY: APPO BY:
SRB MDH JRA

ISSUE DATE: 04/10/2025

 DYN BY:
 CHKD BY:
 APPD BY:

 SRB
 MDH
 JRA

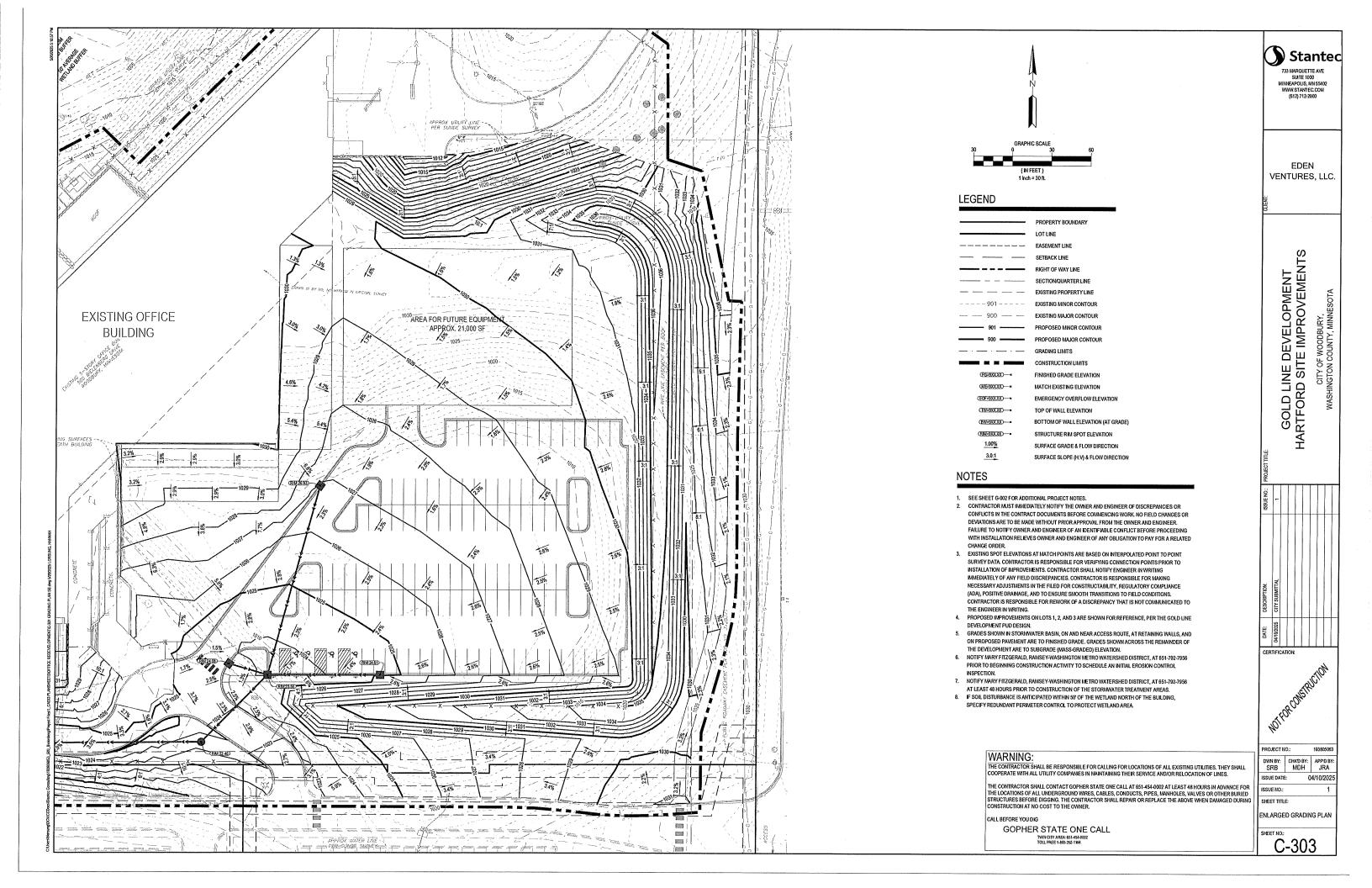
 ISSUE DATE:
 04/10/2025

 ISSUE NO:
 1

 SHEET TITLE:

ENLARGED GRADING PLAN

C-302



Permit Application Coversheet

Date Novembe	er 01, 2023			
Project Name 50	00 Bielenberg Rede	velopment	Project Number	23-26
Applicant Name	Ned Abdul, Eden \	Ventures, LLC		
Type of Developr	ment <u>Commercial</u>	I/Retail		
applicant is prop phase of a larger of three commer on the northern papproximately 30 requirements. Produce to poor soils 08 WCA). A subse- wetlands as considerate buffer re- site. A portion of upstream and do demonstrate tha	cated at 500 Bielen cosing to redevelopment. The redevelopment. The redail buildings, and apportion is proposed acres. Two filtrations are the structed ponds/incipal to the site is located by while a portion of	the southern portion his permit includes reressociated parking/ut to include residentia on basins are proposeds will include sumperedelineated with bonservation Act (WCA) dental (#23-16 WCA). jurisdictional wetland in the 100-year floodles. The applicant has the floodplain will be	494 in the City of Woodk of a vacant office camp movals, mass grading, collities. An expected futual buildings. The total site of to meet stormwater to inlets. Filtration is being undaries approved in Judecision designated two The proposed grading pod on the southwest corn plain, however it is isolated submitted calculations impacted, the proposed adverse flood impacts.	us as a first construction re Phase 2 e area is treatment ng proposed uly 2023 (#23-c) of the olan meets her of the ated from to
Watershed Distri	ct Policies or Stanc	dards Involved:		
☑ Wetlands		✓ Erosion and Sedia	ment Control	
✓ Stormwater	Management	▼ Floodplain		
Water Quantity C The proposed sto		nent plan is sufficient	to handle the runoff fro	om the site.
Water Quality Co				
resources during		control plan is suffic	ient to protect downstr	eam water
Long Term				
The proposed sto downstream wat	_	nent plan is sufficient	to protect the long terr	n quality of
Staff Recommen			al proviolons	
Attachments:	approvar or this i	permit with the speci	ai pi uvisiuris.	
ALIACHIHEHILS.				

✔ Project Location Map

✓ Project Grading Plan



Minnesota Wetland Conservation Act Notice of Decision

Local Government Unit: Ramsey-Washington N	•	
Applicant Name: Ned Abdul (Swervo Developm	ent Corporation) Applicant Repr	r esentative: Tony Kaster
(Stantec)		
<u> </u>	J Project No. (if any): 23-08 WCA	·
Date Complete Application Received by LGU: 6	/12/2023	
Date of LGU Decision: 7/10/2023		
Date this Notice was Sent: 7/10/2023		
WCA Decision Type - check all that apply		
Wetland Boundary/Type □ Sequencing	☐ Replacement Plan ☐ Ba	ank Plan (not credit purchase)
□ No-Loss (8420.0415)	-	eption (8420.0420)
•		•
Part: ABBCDDEFGGH	Subpart: 🗆 2 🗀	3 🗆 4 🗆 5 🗆 6 🗆 7 🗆 8 🗆 9
Replacement Plan Impacts (replacement plan de	ecisions only)	
Total WCA Wetland Impact Area:		
Wetland Replacement Type: Project Specif	fic Credits:	
☐ Bank Credits:		
Bank Account Number(s):		
Technical Evaluation Panel Findings and Recomm		
oxtimes Approve $oxtimes$ Approve w/Conditions $oxtimes$ De	eny 🔲 No TEP Recommendat	ion
	,	
	•	
TEP members Nicole Soderholm (RWMWD- LG	•	onservation District)
TEP members Nicole Soderholm (RWMWD- LG completed a field review of the site on 6/27/23	U) and Jay Riggs (Washington Co	
	U) and Jay Riggs (Washington Co	
completed a field review of the site on 6/27/23 changes were made to the delineation report.	U) and Jay Riggs (Washington Co	
completed a field review of the site on 6/27/23 changes were made to the delineation report. LGU Decision	U) and Jay Riggs (Washington Co 3 with Tony Kaster (Stantec). No	comments or requested
completed a field review of the site on 6/27/23 changes were made to the delineation report. LGU Decision Approved with Conditions (specify below) ¹	U) and Jay Riggs (Washington Co	
completed a field review of the site on 6/27/23 changes were made to the delineation report. LGU Decision	U) and Jay Riggs (Washington Co 3 with Tony Kaster (Stantec). No	comments or requested
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completed a field review of the site on 6/27/23 changes were made to the delineation report. LGU Decision Approved with Conditions (specify below) ¹ List Conditions:	U) and Jay Riggs (Washington Co 3 with Tony Kaster (Stantec). No ⊠ Approved¹	comments or requested □ Denied
completed a field review of the site on 6/27/23 changes were made to the delineation report. LGU Decision Approved with Conditions (specify below) ¹	U) and Jay Riggs (Washington Co 3 with Tony Kaster (Stantec). No ⊠ Approved¹	comments or requested □ Denied
completed a field review of the site on 6/27/23 changes were made to the delineation report. LGU Decision □ Approved with Conditions (specify below)¹ List Conditions: Decision-Maker for this Application: ☑ Staff	U) and Jay Riggs (Washington Co 3 with Tony Kaster (Stantec). No Approved ¹	comments or requested □ Denied
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¹ Findings must consider any TEP recommendations.

Attached Project Documents	
$oxed{\boxtimes}$ Site Location Map $\oxed{\square}$ Project Plan(s)/Descriptions/Reports (spec	cify):
Appeals of LGU Decisions	
If you wish to <u>appeal</u> this decision, you must provide a written reques	
<u>received the notice</u> . All appeals must be submitted to the Board of Wa	ater and Soil Resources Executive Director
along with a check payable to BWSR for \$500 unless the LGU has adopted to BWSR for \$500 unless the BWSR for \$500 un	oted a local appeal process as identified
below. The check must be sent by mail and the written request to app	peal can be submitted by mail or e-mail.
The appeal should include a copy of this notice, name and contact info	ormation of appellant(s) and their
representatives (if applicable), a statement clarifying the intent to app	peal 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	
Does the LGU have a <u>local appeal process</u> applicable to this decision?	
\square Yes ¹ \boxtimes No	
¹ If yes, all appeals must first be considered via the local appeals process.	
Land America Colorida De misson de la Colorida de mila	when the large views and from the constitution.
Local Appeals Submittal Requirements (LGU must describe how to appeal, s	ubmittal requirements, rees, etc. as applicable)
Notice Distribution (include name)	
Required on all notices:	
SWCD TEP Member: Jay Riggs (Washington Conservation District)	■ BWSR TEP Member: Ben Meyer
☐ LGU TEP Member (if different than LGU contact):	
□ DNR Representative: Kelly Pharis	
☐ Watershed District or Watershed Mgmt. Org.:	
☐ Applicant (notice only): ☐ Agent/Consultant (notice only): Jack Am	merman (Stantec)
Optional or As Applicable:	
⊠ Corps of Engineers: Benjamin Bejcek	
☐ BWSR Wetland Mitigation Coordinator (required for bank plan application	ons only):
☐ Members of the Public (notice only):	other: Mary Fitzgerald (RWMWD)
Signature:	Date:
Nicole Maras	7/10/2023

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 Notice of Decision

Local Government Unit: Ramsey-Washington Metro Watershed District (RWMWD) County: Washington
Applicant Name: Ned Abdul (Swervo Development Corporation) Applicant Representative: Tony Kaster
(Stantec)
Project Name: 500 Bielenberg Incidental/No-Loss LGU Project No. (if any): 23-16 WCA
Date Complete Application Received by LGU: 7/18/2023
Date of LGU Decision: 8/7/2023
Date this Notice was Sent: 8/10/2023
WCA Decision Type - check all that apply
\square Wetland Boundary/Type \square Sequencing \square Replacement Plan \square Bank Plan (not credit purchase)
⊠No-Loss (8420.0415)
Part: ☑ A ☐ B ☐ C ☐ D ☐ E ☐ F ☐ G ☐ H Subpart: ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9
Replacement Plan Impacts (replacement plan decisions only)
Total WCA Wetland Impact Area:
Wetland Replacement Type: Project Specific Credits:
□ Bank Credits:
Bank Account Number(s):
Technical Evaluation Panel Findings and Recommendations (attach if any)
☐ Approve ☐ Approve w/Conditions ☐ Deny ☒ No TEP Recommendation
Approve in Approve wy conditions in Deny in the Tell Recommendation
LGU Decision
\square Approved with Conditions (specify below) 1 \square Approved 1 \square Denied
List Conditions:
Decision-Maker for this Application: ⊠ Staff □ Governing Board/Council □ Other:
Decision is valid for: ⊠ 5 years (default) □ Other (specify):
¹ 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 ¹ .
☐ Attachment(s) (specify):
⊠ Summary: Based on aerial photography and a previous site visit completed in June 2023, Wetlands B and
D are created ponds/basins in areas that were historically upland and are therefore not subject to WCA
regulation; they are deemed incidental wetlands.

Attached Project Documents

 $^{^{1}}$ Findings must consider any TEP recommendations.

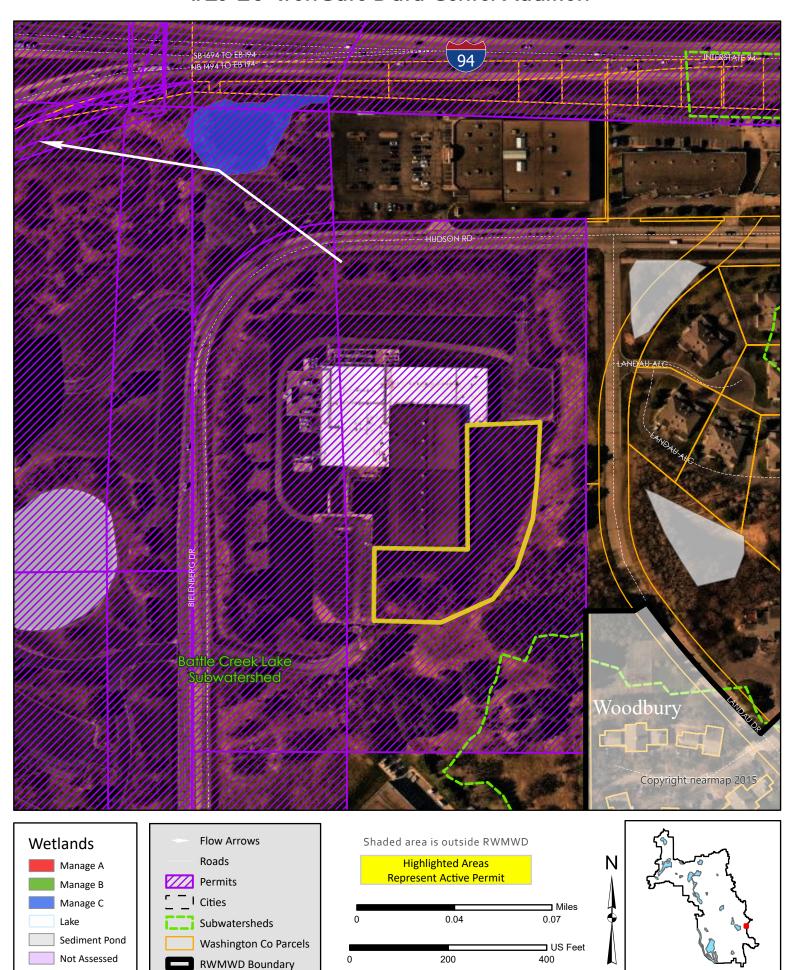
☐ Site Location Map ☐ Project Plan(s)/Descriptions/Reports (specify):
Appeals of LGU Decisions If you wish to appeal this decision, you must provide a written request within 30 calendar days of the date you received the notice. All appeals must be submitted to the Board of Water and Soil Resources Executive 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
Does the LGU have a local appeal process applicable to this decision? Yes¹ No 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
Notice Distribution (include name) Required on all notices:
SWCD TEP Member: Jay Riggs (Washington Conservation District) BWSR TEP Member: Ben Meyer
☐ LGU TEP Member (if different than LGU contact):
□ DNR Representative: Kelly Pharis
 ☑ Watershed District or Watershed Mgmt. Org.: ☑ Applicant (notice only): ☑ Agent/Consultant (notice only): Jack Ammerman (Stantec)
Applicant (notice only).
Optional or As Applicable:
□ Corps of Engineers: □
\square BWSR Wetland Mitigation Coordinator (required for bank plan applications only):
☐ Members of the Public (notice only): ☐ Other: Mary Fitzgerald (RWMWD)
Signature: Date:
Nicole Maras 8/10/2023

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

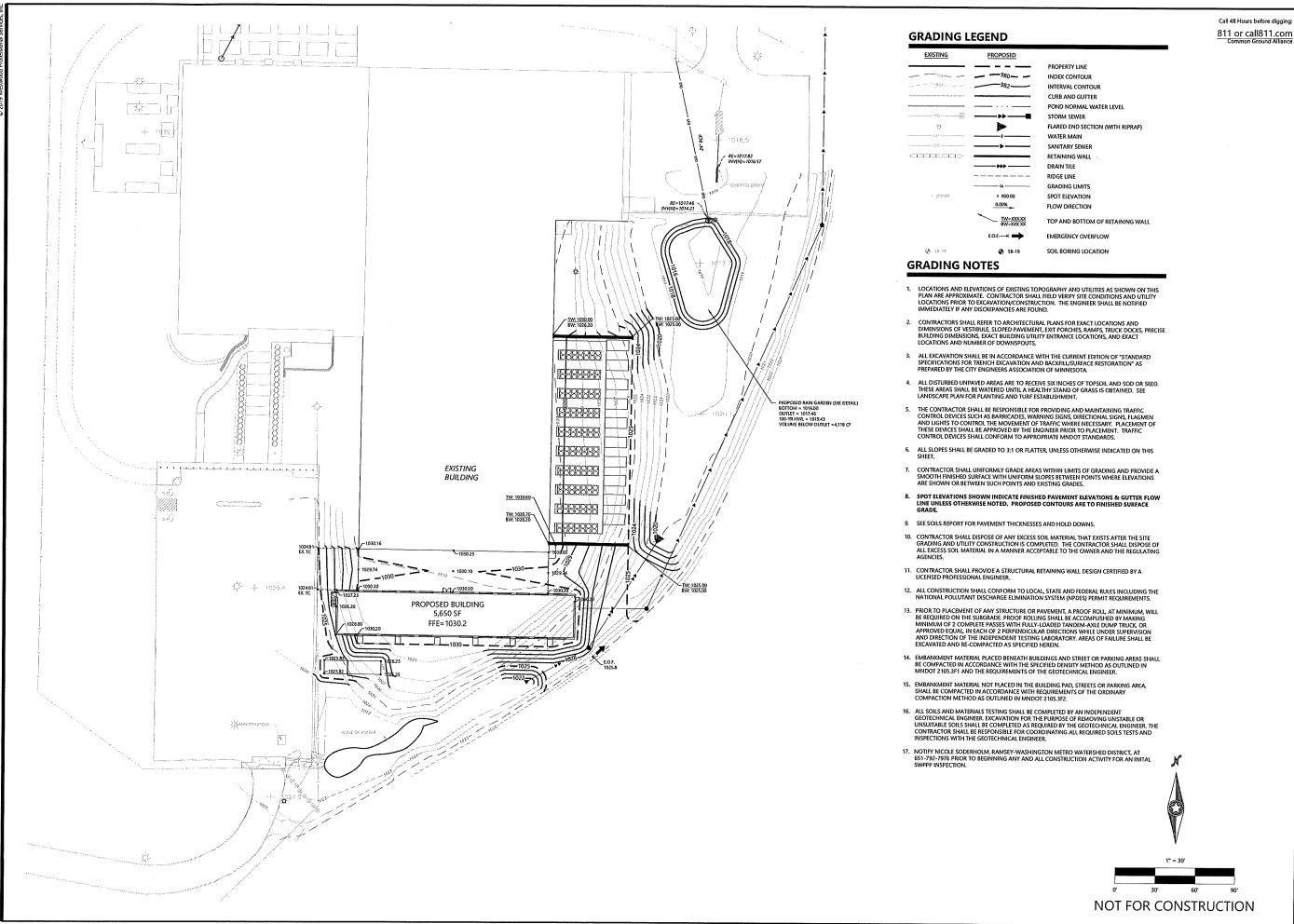
Date June 04, 2025	
Project Name IronGate Data Center Addition	Project Number 25-20
Applicant Name John Botnen, IronGate Data Centers	
Type of Development Industrial	
Property Description The proposed project located at 501 Bielenberg Drive will include addition and concrete slabs for mechanical equipment and fue proposing to install a rain garden to meet stormwater manager applicant is proposing for the BMP to be infiltration, however, to alternative sequencing design of filtration if clay soils or high ground site. Both designs meet Rule C.	I tanks. The applicant is nent requirements. The hey have also submitted an
Watershed District Policies or Standards Involved:	
☐ Wetlands	Control
✓ Stormwater Management ☐ Floodplain	
Water Quantity Considerations The proposed stormwater management plan sufficiently address considerations.	sses water quantity
Water Quality Considerations Short Term	
The proposed erosion control plan sufficiently addresses water considerations.	quality short term
Long Term	
The proposed stormwater management plan sufficiently address considerations.	sses water quality long term
Staff Recommendation Staff recommends approval of the permit with the special prov	isions.
Attachments:	
Project Location Map	
✓ Project Grading Plan	

#25-20 IronGate Data Center Addition



Special Provisions

- 1. The applicant shall submit geotechnical report that includes soil boring(s) in the location of the proposed basin.
- 2. The applicant shall submit the escrow fee of \$5,950. Payment instructions attached.
- 3. The applicant shall submit final, signed construction plan sheets with the following additions:
- a. Redundant perimeter control should be installed on the downgradient south perimeter of the site adjacent to the wetland if a 50' buffer cannot be maintained. Determine if buffer is sufficient or redundancy is needed on any down gradient grades.
- b. Bottom of basin perimeter control needed at rain garden.
- 4. The applicant shall submit an executed stormwater maintenance agreement for the proposed stormwater facilities under long-term private ownership.
- 5. The applicant shall submit a site-specific Stormwater BMP Operations & Maintenance Plan for the proposed stormwater basin. The O&M Plan should include sufficient explanation in plain language for long-term inspection and maintenance purposes.
- a. The applicant shall include a narrative description of the proposed facilities.
- b. The applicant shall include a labeled figure that calls out inspection and maintenance locations
- c. The applicant shall include examples of companies that complete maintenance on rain gardens.
- 6. The applicant shall provide the contact information and proof of certification for the erosion control coordinator responsible for implementing the SWPPP on site.
- 7. The applicant shall submit a copy of the approved Minnesota Pollution Control Agency's NPDES Construction Permit coverage for the project.



DATE: 04/25/25

C300

GRADING PLAN

IRONGATE

IRONGATE EXPANSION WOODBURY, MN

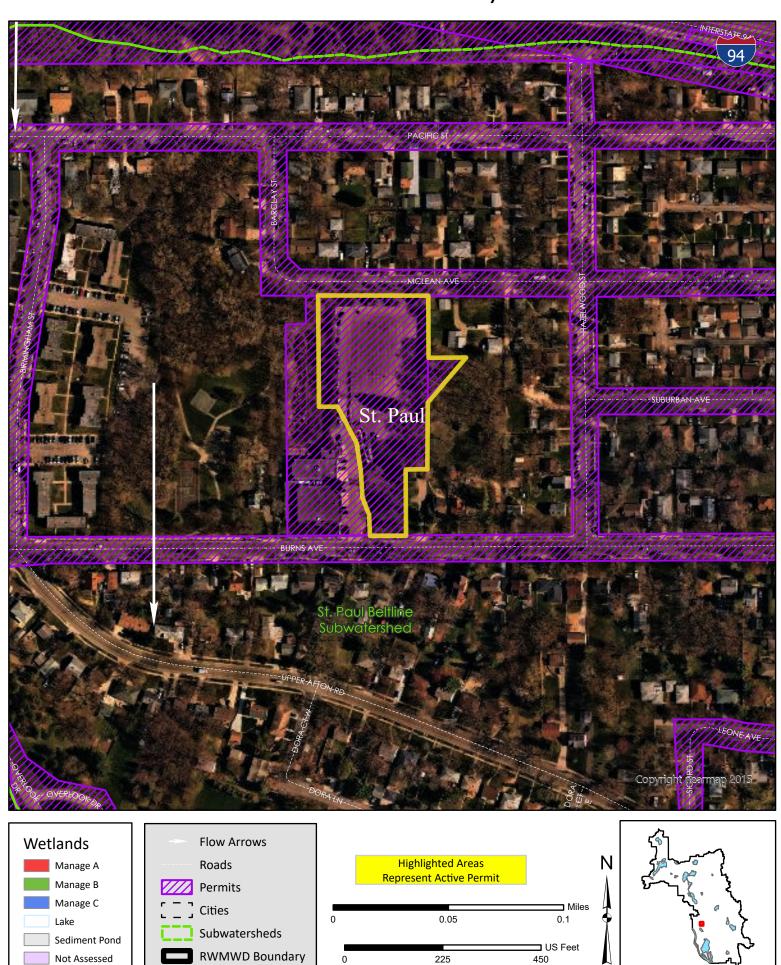
PROJECT NUMBER: 0067211

HEET NUMBER:

Permit Application Coversheet

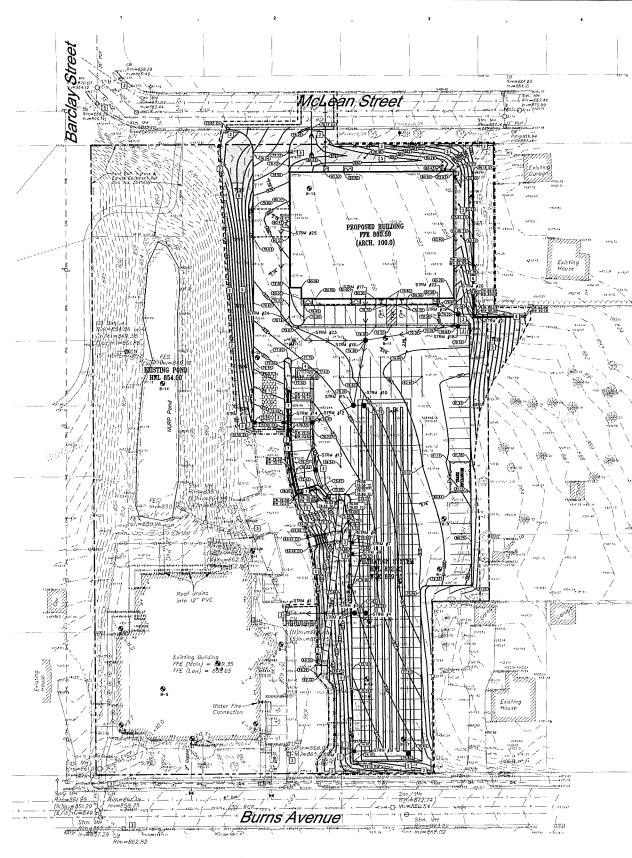
Date June 04, 2025	
Project Name Proceeds Community Center	Project Number 25-21
Applicant Name Abby Fincher, Mortenson	
Type of Development Institutional	
Property Description The proposed 2.28 acre development at 1505 Burns Ave consist building and an expanded parking area. In addition, there is a fixed of the site. An underground filtration system is proposed to management for the proposed development and future parking will be sumped catch basins with snouts. The underground filtration system is proposed to management for the proposed development and future parking will be sumped catch basins with snouts. The underground filtration system is proposed to the proposed development and future parking will be sumped catch basins with snouts. The underground filtration system is proposed to management point and future parking will be sumped catch basins with snouts. The underground filtration system is proposed to management point and future parking will be sumped catch basins with snouts. The underground filtration system is proposed to management for the proposed development and future parking will be sumped catch basins with snouts. The underground filtration system is proposed to management for the proposed development and future parking will be sumped catch basins with snouts. The underground filtration system is proposed to management point and future parking will be sumped catch basins with snouts. The underground filtration system is proposed to management point and future parking will be sumped catch basins with snouts.	uture parking area on the east o provide stormwater I. Pretreament for the system ration system discharges to
Watershed District Policies or Standards Involved:	
☐ Wetlands	Control
✓ Stormwater Management ✓ Floodplain	
Water Quantity Considerations The stormwater management plan displays sufficient practices considerations.	for water quantity
Water Quality Considerations Short Term	
The erosion control plan displays sufficient practices for water considerations.	quality short term
Long Term The stormwater management plan displays sufficient practices considerations.	for water quality long term
Staff Recommendation Staff recommends approval of the permit with the special prov	risions.
Attachments:	
✓ Project Location Map	
✓ Project Grading Plan	

#25-21 Proceeds Community Center



Special Provisions

- 1. The applicant shall submit the final, signed geotechnical report.
- 2. The applicant shall submit a revised project narrative (hydrology report) addressing freeboard requirement (Rule D) and lack of any known wetlands onsite (Rule E).
- 3. The applicant shall submit the final, signed plans set for construction.
- 4. The applicant shall submit the escrow payment of \$11,400.
- 5. The applicant shall submit an executed stormwater maintenance agreement for the proposed stormwater facilities.
- 6. The applicant shall submit a site-specific Stormwater BMP Operations & Maintenance Plan for the proposed stormwater facilities. The O&M Plan should include sufficient explanation in plain language for long-term inspection and maintenance purposes.
 - A. Include a narrative description of the proposed facilities.
- B. Include a labeled figure that calls out inspection and maintenance locations.
- C. Include examples of companies that complete maintenance on underground stormwater treatment systems.
- 7. The applicant shall provide the contact information and proof of certification for the erosion control coordinator responsible for implementing the SWPPP on site.
- 8. The applicant shall submit a copy of the approved Minnesota Pollution Control Agency's NPDES Construction Permit coverage for the project.



 $\left(\begin{array}{ccccc} 1 & \text{GRADING, DRAINAGE, AND EROSION CONTROL PLAN} \\ \hline (C2.000) & 1 & = 30 \end{array}\right)$

KEYED NOTES

KEYED NOTES ARE DENOTED BY HO ON PLAN.

- INSTALL ROCK CONSTRUCTION ENTRANCE. REFER TO DETAIL 1/05.000. [2] INSTALL PERIMETER EROSION CONTROL. REFER TO DETAILS 2/C5.000 AND
- 3 INSTALL HALET SEDIMENT PROTECTION, REFER TO DETAILS 4/C5.000 AND 5/C5.000.

- S INSTALL MN/DOT 3885 CATEGORY 20 TEMPORARY STRAW FIBER EROSION CONTROL BLANKET.
- E NSTALL MODULAR BLOCK RETAINING WALL USING SALVAGED BLOCK, REFER T RETAINING WALL DESIGNER'S STANDARDS AND SPEDIFICATIONS, TEMPORARY SHORING MAY BE REQUIRED FOR WALL REPLACEDED.
- 7 PISTALL BELGRADE DIAMOND PRO OR APPROVED EQUAL MODULAR BLOCK RETAINING WALL REFER TO RETAINING WALL DESCREY'S STANDARDS AND SPECIFICATIONS. REFER TO RETAINING WALL DESCREYS STANDARDS AND SPECIFICATIONS. REFER TO RETAINING WALL DESCRIPTION FOR CURRENT

- GRADING CONTRACTOR IS TO COORDINATE WITH PAYING CONTRACTOR S
 THAT ALL STEPS AND LANDINGS ARE SLOPED FER CODE.
- ALL SIDEWALK LONGITUDINAL AND TRANSVERSE SLOPES ARE TO BE PER CODE.

OPOSED CONTOUR STORM SEWER ETAINING WALL .. JANHOLE EROSION CONTROL. BLANKET (TEMPORA <u>198</u> ROCK CONSTRUCTION ENTRANCE PRAINAGE FLOW ARROW RETAINING WALL SPOT ELEVATION OIL BORING **⊕** sa-t CONCRETE WASHOUT ...2

PROPOSED PLAN SYMBOLS

ACUT LINE (AFPROX.)

EDIMENT CONTROL LOG

- THE BOTTOM ELEVATION IS THE ELEVATION OF THE LOW-GRADE SIDE OF THE WALL, NOT THE TOP ELEVATION OF THE BURIED BLDCK COURSE.
- . ALL RETAINING WALLS SHALL HAVE PROTECTIVE FEXCING AT THE TOP WHERE THE VERTICAL HEIGHT EXCEEDS 30 INCHES. REFER TO ARCHITECTURAL AND LANDSCAPE PLANS AND SPECIFICATIONS.

- ANY EROSON COVERDE, FACELITES DEEVED NECESSARY BY THE CITY OR RAUSEY-MASHINGTON METRO WATERSHED DISTRICT, BEFORE, DURING, OR AFTER THE GRADING ACTIVITIES, SHALL BE INSTALLED AT THEIR REQUEST.
- FOR SITES CREATER THAN 1.0 ACRE. AS REQUIRED BY THE MPCA PERMIT REQUIREMENTS, THE PERMIT APPLICANT MUST KEEP AN EROSON CONTROL INSPECTION LOS.
 BE MADE ONCE THEM SPECIAL DAYS AND MITHEN AN HOURS AFTER EMERY RAIN EVENT. THE DISPECTION RECORD MUST BE MADE ANALASE TO THE CITY AND RAINSEY-MASHINGTON
 METHO ANTIPHENED DISTRICT HARMY AT HOURS OF REASHINGTON.
- FLOWS FROM DYERSON CHANNELS OR PIPES (TEMPORARY OR PERUANEMT) SHALL BE ROUTED TO SEDMENTATION BASINS OR APPROPRIATE ENERGY DISSIPATORS TO PREVENT TRANSPOR OF SEDMENT TO OUTFLOW TO LATERAL COMMINES AND TO PREVENT EROSEN AND SEDMENTATION WHEN RUNGHT FLOWS INTO THESE COMMINES.
- SITE ACCESS ROADS SHALL BE GROUD OF DIMERAGE PROTECTED WITH SITE FENCES, DIVERSION CHANNELS, OR DIKES AND PIPES TO PREVENT SEDURAL FROM ENTING THE SITE VA THE ACCESS ROADS. SITE-ACCESS ROADS/DRIVENING SHALL BE SURFACED WITH CRUSHED ROCK WHERE THEY ADDON EXISTING PAYED ROADWAYS.
- SOLS TRACKED FROM THE SITE BY NOTOR VEHICLES OR EQUIPMENT SHALL BE CLEANED DALY FROM PAVED ROADWAY SURFACES, OR MORE PREQUENTLY IF REQUESTED RANSEY-WASHINGTON METRO WATERSHED DISTRICT, THROUGHOUT THE DURATION OF CONSTRUCTION.
- DUST CONTROL WEASURES SHALL BE PERFORMED PERFORMED WHEN CONDITIONS REQUIRE AND/OR AS DIRECTED BY THE CITY OR RAWSEY-WASHINGTON WETRO WA
- ALL ERGSON CONTROL MEASURES SHALL BE USED AND MANTAINED FOR THE DURATION OF SITE CONSTRUCTION. PERSONNEL OF MANUFACTURE WITH THESE PROSON CONTROL MEASURES. THEY SHALL BE RESTORED TO SERVE THER MITERIZED FUNCTION AT THE END OF EACH DAY OR AS SOON AS FEED CONDITIONS.
- A ALL SEEDED AREAS SHALL BE EITHER MULCHED AND DISC-ANCHORED OR COVERED BY FISROUS ELAXETS TO PROTECT SEEDS AND LIMIT EROSON.
 SHALL BE DISC-ANCHORED AND APPUED AT A UNFFORM RATE OF NOT LESS THAN TWO TONS PER ACRE AND NOT LESS THAN BOX COVERAGE.
- IF THE GRADED AREA IS ANTICIPATED TO BE RE-DISTURBED/DEVELOPED WITHIN SIX MONTHS, PROVIDE A TEMPORARY VEGETATIVE COVER CONSISTING OF MANISOTIA DEPARTMENT OF TRANSPORTATION (MADOD) SEED WITHING 21-111 (DATS), OR 21-112 (MATER WHEAT), AT A RATE OF 100 POWADS PER ACRE.

 FOR GRADED AREA NEL NOT BE DEVELOPED FOR A PERCO CREATER THAN SIX MONTHS, PROVIDE A SEMI-PERMANENT VEGETATIVE COVER OF SEED WITHING WHOOT 22-112 AT A RATE OF 40 POWADS PER ACRE.
- GRADING BONDS OR THE EQUIPALENT SECURITIES SHALL BE RETAINED UNTIL TURF HAS GERMANIED AND SURVIVED A 60-DAY GROWING PERIOD.
- NULSS SPECIFED LISTANCE MITH'N THE CONSTRUCTION DOCUMENTS (LAUSSCUPE PLAN). PREMIABIT THE RESTORATION SHALL CONSTS OF SOO.

 WHENERS OTHER BOSCON AND SEDWENT CONTROL PRACTICES ARE INADEQUALT, TEMPORARY ON-SITE SEDMENT BASIS THAT CONFORM TO THE CRITERA FOR ON-SITE DETERMINE DESIRES THAT CONFORM TO THE CRITERA FOR ON-SITE DETERMINED.
- MUICH, HYDROMULCH, AND TACKFIERS MAY NOT BE USED FOR STABUZATION IN SWALES OR DRAINGE DITCHES UNLESS THE LONGITUDINAL SLOPE IS LESS THAN 2 PERCENT.
- NUMBER SHALL BE PROVIDED FROM EMERAN ALL STORM SEWER CATCH BASAS FROMOND THEY ARE NOT NEEDED DURING CONSTRUCTION. WHERE STORM SEWER COTCH BASAS ARE RECESSARY FOR SHE DRAMMED DURING CONSTRUCTION, SEDVENT FROHERION DEVICES AS GENALED SHALL BE INSTALLED AND MANNAHED AROUND ALL CATCH BASAS URTIL THE TREBUTARY AREA TO THE CAREN DEWS IS RECEDED.
- 12. EROSION CONTROL FACILITIES SHALL BE INSTALLED AND MAINTAINED AROUND THE PERMETER OF THE POND WITHIN OR ADJUCENT TO THE AREA TO BE CRUDED UNTIL THE TRIBUTARY AREA TO THE POND IS RESTORED.
- 13. TO MANUZE EROSON, ALL 3:1 SLOPES SHALL BE COVERED WITH A WHYDO'S 3855 CATEGORY 20 STRAM EROSON CONTROL BLANKT'S OR STAKED 500.

 14. ACCUMULATION OF ALL SEDVENT OCCURRING IN THE POND, STORU SEMERS, AND CURB LINES SHALL BE REMOVED PROR TO, DURING, AND AFTER COMPLETION OF GRADNO ACTIVITIES.
- 15. EROSON CONTROL HEVS AND DEVICES SHALL BE REMOVED ONLY AFTER THE AREA HAS RECEIVED FINAL STABLIZATION OR AS DIRECTED BY THE CITY AND/OR WATERSHED DISTRICT.

- GRADING NOTES:
 1. THE CONTRACTOR SHALL WIST THE SITE, REMEW ALL CONSTRUCTION DOCUMENTS, AND FIELD MERRY THE DUSTING CONGITIONS PRIOR TO BODING, NO ADDITIONAL COMPENSATION WILL BE CASH FOR WORK THAT COULD HAVE BEEN IDENTIFED BY A SITE WIST OR CONSTRUCTION DOCUMENT REMEM.
- OFFI FOR MORE HAS COULD HAVE BEEN DENTED BY A STE YEST OR CONSTRUCTION DOCUMENT REVEN.

 2. THE DECREMOND INFORMATION AND FREATHER BY BOOKET, PERSON A ASSOCIATES, D.C. (763) 262-2622.

 3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SCCRETARY THE LOCATION OF ALL DISTING UTILITIES, THE CONTRACTOR SHALL YESTY THE LOCATION AND DECARRON AND WARK ALL ENSTROY
 CORRECTLY, CONTRACT COPPER STATE DISC COLL AT 551-454-0002 FOR FIRED LOCATION COSTING UTILITIES, CONTRACT COPPER STATE DISC COLL AT 551-454-0002 FOR FIRED LOCATION COSTING UTILITIES, CONTRACT COPPER STATE DISC COLL AT 551-454-0002 FOR FIRED LOCATION COSTING UTILITIES, CONTRACT COPPER STATE DISC CONTRACTORY

 5. NOTEY CITY BULDING INSPECTIOR REFORE TREATHERS AND EXCHANGES. THE CONTRACTOR SHALL OBTAIN ALL APPLICABLE PERVITS PROR TO START OF CONSTRUCTION.

 6. ALL SPOT LEVATIONS SHOWN AS 51.60, FOR EXAMPLE, ARE TO BE UNDERSTOOD TO WEAN 851.60.
- ALL SPOT ELEVATIONS ALONG THE CURB-LINE INDICATE THE ELEVATION OF THE GUTTER UNLESS NOTED OTHERWISE.

- ALL SHOT LEWINGS LOWG-THE CUBBLINE ROCKET THE ELEMANN OF THE OUTER MILES NOTED CHEMISE.

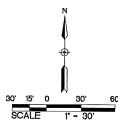
 AND LANGEAPED SLOPES ARE TO EXCEL BY A LITTER THROCKING, TO IT FOOT VERTICAL UNLESS NOTED CHEMISE.

 ACCESSBLE PARAMO AREAS SMALL NOT HAVE SLOPES IN ANY DIRECTION THAT EXCEED 7K,

 PROVIDE POSITIVE DRANKE FROM BUILDINGS AT ALL TIMES.

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- THE CONTRACTION MAY STRP AND SULVACE TOPSOL FOR POTENTIAL RE-EFFEADING ON THE SITE, IF APPROVED BY THE LANGEAGE ARCHITECT
 TOPSOL AFTER COMPACTION SHALL BE RE-SPEEDO PROOF TO SEEDING AND UNICHNO. DICESS TOPSOL WAY BE REMOVED FROM THE STRUMENT TO PROPERTY TINSM HIS SITE AS NOTED ABOVE. THE TOPSOL STREPPING, STOCKRIJINA, AND RE-SPREADING SHALL BE DONE IN A
 APPROXID CREADING PLAN AND SPECIFICATIONS. THE CONTRACTION STRUMENT TO THE LANGEAGE PORMANGS AND SPECIFICATIONS TOR ANY S
- . ALL GRADING OPERATIONS SHALL BE CONDUCTED IN A MAINTER TO MINIME THE POTENTIAL FOR SITE EROSION, EROSION CONTROL MEASURES SHALL BE INSTALLED TO PROVENT SEDWENT FROM RUTHINNG OFF ONTO ADJUCTOT PROPERTIES. AN DAMAGE TO ADJUCTOT PROPERTIES MUST BE CORRECTED AND RESTORED AS SOON AS PERMISSON IS GRANITED FROM
- IF CONSTRUCTION OF THE SITE MORK PROCEEDS THROUGH THE WHITER WOMINS, ANY DISTURBED AREAS OUTSIDE THE BULDING FOOTPRATES ARE TO BE WINALLY SMARLED PROR TO WARCH I AS FOLLOWS: AREAS PLANNED TO RECEIVE PARKEDING ARE TO HAVE CLASS 5 BASE INSTALLED; ALL OTHER DISTURBED AREAS ARE TO BE SECRED, STRUM WHICH PILET.
- SNOW MULCHING SHALL BE DETINED AS MULCH MATERIAL SPREAD OVER THE TOP OF SNOW SO THAT THE MULCH MELTS THROUGH THE SNOW AND STICKS TO THE EXPOSED SOLS. 17A. SPOR BUILDHING SHALL BE DEFINED AS VACAIR MATERIAL SPEAKO UNCER HEL FOR SOME BUILDHING SHALL BE DEFINED AND A WALLE DEFINED AS WHICH MATERIAL SPEAKO OFFICE AND A SHALL BE DEFINED AS WHICH MATERIAL SPEAKO OFFICE AND A SHALL BE DEFINED AS WHICH MATERIAL SPEAKO OFFICE AND A SHALL BE DEFINED AS WHICH MATERIAL SPEAKO OFFICE AND A SHALL BE AND A SHAL
- 18. RETAINING WALLS AND APPROPRIATE SLEETY FENCING ALONG THE TOP OF WALLS ARE TO BE DESIGNED AND CERTIFIED BY A REGISTERED PROFESSIONAL ENGINEER. SUBMIT RETAINING WALL SHOP DRAWINGS TO PROJECT TEAM PROR TO CONSTRUCTION.
- 19. THE CONTRACTOR SHALL LIWIT THE DISTURBED AREA AS WUCH AS POSSIBLE.

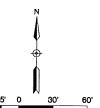


Budding
Beckhards
Bottom of Wal
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Cotch
Cotch Bossin
Cotch

APPROXIMATE DISTURBED AREA IS 2.28 ACRES

NOTE: STORM SEWER PALETS NOT SHOWN OF PLAN MAY RECEIVE RURKHEF FROM CONSTRUCTION ACTIVITIES. INSTALL IN SEDMENT PROTECTION PER DETAILS

NOTE: REFER TO C1.000 FOR ST. PAUL NOTES.



PROCEEDS COMMUNITY CENTER

> Progressive Baptist Church 1505 Burns Ave, St. Paul, MN



WOLD ARCHITECTS AND ENGINEERS 332 Minnesota Street, Suite W2003 Saint Paul, MN 55101

woldse.com | 651 227 7773



Revisions		
Description	Date	14:
		

GRADING, DRAINAGE, AND **EROSION CONTROL** PLAN

C2.000

Project Name: St. Paul 2025 Street Sweeping Application Number: 25-22 CS

Board Meeting Date: 5/7/2025

Applicant Name: Pat Murphy

Residential ☐ Commercial/Government ✓

Project Overview:

In December 2024, the RWMWD Board of Managers voted to allocate \$250,000 towards 2025 enhanced street sweeping efforts. The City of St. Paul is requesting funds for increased annual sweeping efforts. The City will add sweeping efforts after the spring planned sweep and into the summer and continue additional sweeping in the fall after the planned sweeping and as long as weather permits. The City will continue to fund two sweepings on top of this request.

The enhanced street sweeping efforts are eligible for 100% funding up to \$100,000.

BMP type(s):

Street Sweeping(1)

Grant Request:

\$100,000.00

Recommendation:

Staff recommends approval of this application.

Subwatershed:

Battle Creek, St. Paul Beltline

Project Name: Chatterton Application Number: 25-24 CS

Board Meeting Date: 6/4/2025

Applicant Name: <u>Steven Chatterton</u>

Residential Commercial/Government

Project Overview:

This project is located off Eldridge Ave in the City of North Saint Paul. The applicant is proposing to install multiple areas of native plantings.

The native plantings are eligible for 50% coverage up to a total of \$15,000.

BMP type(s):

Native Habitat Restoration(3)

Grant Request:

\$5,750.00

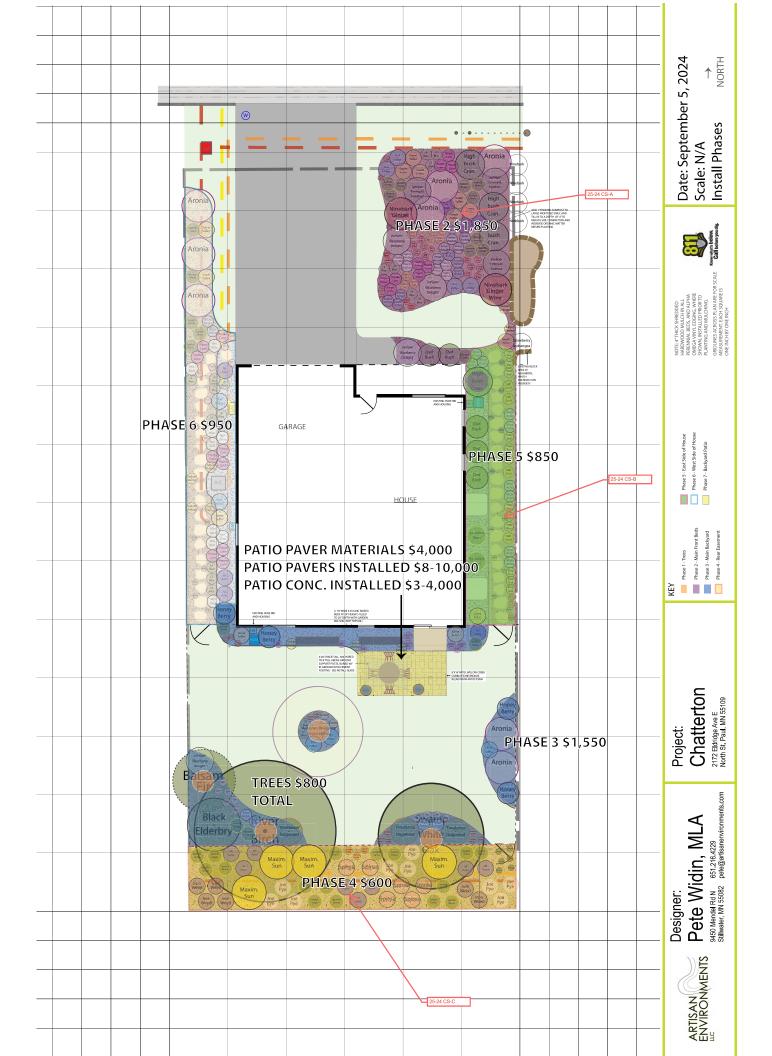
Recommendation:

Staff recommends approval of this application.

Subwatershed:

Kohlman Creek





Project Name: Larson Application Number: 25-25 CS

Board Meeting Date: 6/4/2025

Applicant Name: Pam and Brian Larson

Residential Commercial/Government

Project Overview:

This project is located off Standbridge Circle in the City of Roseville. The applicant is proposing to install a rain garden and swale.

The rain garden and swale are eligible for 75% coverage up to a total of \$15,000.

BMP type(s):

Rain Garden(1)

Grant Request:

\$8,150.00

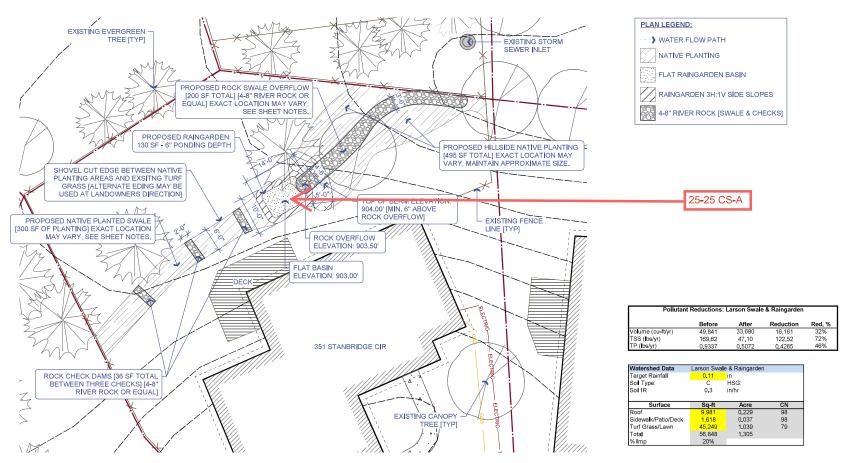
Recommendation:

Staff recommends approval of this application.

Subwatershed:

Lake Owasso





PROJECT GENERAL NOTES:

- 1. CONTRACTOR TO LOCATE UTILITIES PRIOR TO BEGINNING WORK AND SECURE ANY NECESSARY PERMITS
- 2. CONTRACTOR TO PROVIDE ADEQUATE TEMPORARY PERIMETER & EROSION CONTROL MEASURES DURING ANY SOIL DISTURBANCE PERIODS.
- 3. CONTRACTOR TO VERIFY ANY REQUIRED CHANGES WITH RCSWCD PRIOR TO INSTALLATION. MAINTAIN SQUARE FEET AND PONDING DEPTH.
- 4. EXISTING TREES & SHRUBS TO BE PROTECTED UNLESS OTHERWISE NOTED BY PLANS OR LANDOWNER.
- 5. NO MATERIALS TO BE STORED UNDER TREES. AVOID DRIVING UNDER TREES TO REDUCE COMPACTION.

RAINGARDEN, SWALE, NATIVE PLANTING NOTES:

- REMOVE EXISTING VEGETATION WITHIN RAINGARDEN, NATIVE PLANTED SWALE & HILSIDE NATIVE PLANTING AREAS. [1-2 HERBICIDE APPLICATIONS MINIMUM, DEAD TURF CAN BE MOWED SHORT AND LEFT IN PLACE FOR EROSION CONTROL PURPOSES!
- 2. EXCÁVATE RAINGARDEN AREA, LOOSEN UNDERLYING SOILS 12" MINIMUM, AND INSTALL GAMENDED SOILS IN RAINGARDEN BASIN AREA. IF SANDY SOILS ARE ENCOUNTERED, AMENDED SOILS CAN BE SUBTRACTED AND JUST RIP UNDERLYING SOILS.
- 3. GRADE OUT FLAT RAINGARDEN BASIN AREA AND 3H:1V SIDE SLOPES. USE TRACKED EQUIPMENT ONLY.
 4. CREATE BERM ON DOWNSLOPE SIDE OF
- 4. CREATE BERM ON DOWNSLOPE SIDE OF RAINGARDEN TO ASSIST WITH CREATING PONDING AREA, USE ANY EXCAVATED SOILS AS POSSIBLE PRIOR TO HAUL IN OF NEW SOILS FOR BERM.
- 5. INSTALL ARMORED ROCK SWALE OVERFLOW THROUGH BERM AND DOWN SLOPE OF YARD ALONG FLOW-PATH OF WATER, TERMINATE ROCK SWALE WHERE WATER FLOW EXITS PROPERTY. EXACT SHAPE/LOCATION MAY VARY, SITE VERIFY.
- 6, INSTALL NATIVE PLANTINGS IN SWALE AREA & ON SLOPE OF HILL PER LAYOUT & PLANTING PLANS, EXACT SHAPE/LOCATION MAY VARY BUT MAINTAIN APPROXIMATE SIZE OF PLANTING AREA.
- 7. FOR SWALE, BERM & HILLSIDE AREAS INSTALL EROSION CONTROL BLANKET OVER ENTIRE AREA, [C125BN OR S75BN OR EQUIVALENT BIODEGRADABLE NETTING BLANKET, INSTALL WITH BIODEGRADABLE STAKES,]
- 8. INSTALL 3"-THICK TWICE SHREDDED HARDWOOD MULCH OVER ENTIRE RAINGARDEN AREA, PLANT WITH NATIVE SPECIES [SEE PLANTING PLAN]

9. INSTALL ROCK CHECK DAMS AT 3 LOCATIONS ALONG SWALE AS SHOWN ON PLAN. INSTALL NON-WOVE GEOTEXTILE BETWEEN ROCK AND SOIL, [4-8" ROCK]
10. ELEVATIONS PROVIDED ARE APPROXIMATE, SITE VERIFY FINAL ELEVATIONS TO ENSURE PROPER PONDING DEPTH, OVERFLOW, ETC.

11. PLANTING PLAN WITH RECOMMENDED SPECIES, LAYOUT, SIZING, ETC. PROVIDED ON SHEET L200. FINAL SPECIES LIST INCLUDING SPECIES, SIZING, AND QUANTITY TO BE PROVIDED TO RCSWCD STAFF PRIOR TO PURCHASE AND INSTALLATION FOR APPROVAL.

12. SEE DETAIL SHEETS FOR ADDITIONAL INSTALLATION DETAILS & SPECIFICATIONS.

13. CONTRACTOR TO SEED ALL AREAS OF DISTURBED SOIL OUTSIDE PROJECT LIMITS WITH FESCUE SEED OR SIMILAR UPON COMPLETION OF PROJECT.



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

PROJECT:

LARSON RESIDENCE LOCATION: 351 STANBRIDGE CIR ROSEVILLE, MN 55113

WATERSHED DISTRICT:



DESIGNER: BRIAN T. OLSEN

DATE: 2/11/2025 PAST REVISION:

PAST REVISION:

PAST REVISION:

PAST REVISION:

PAST REVISION CHECKED BY:

TAA:

-ELEVATIONS ARE APPROXIMATE
-UTILITY LOCATIONS ARE APPROXIMATE,
CONFRIM LOCATIONS PRIOR TO WORK
-CONTRACTOR AQUIRE NECESSARY
PERMITS PRIOR TO START
-EXCAVATE WITH TRACKED EQUIPMENT

ONLY
-SIZE AND SHAPE OF PROJECT MAY VARY,
VERIFY CHANGES WITH RCSWCD STAFF
PRIOR TO INSTALL

-ORIGINAL SHEET SIZE: 11"x17"

SCALE: 1/16"=1'-0"

SITE PLAN

L100

Project Name: Cassidy Application Number: 25-26 CS

Board Meeting Date: 6/4/2025 **Applicant Name:** Tara Cassidy

Residential Commercial/Government

Project Overview:

This project is located off Brigadoon Court in the City of Shoreview. The applicant is proposing to install a rain garden.

The rain garden is eligible for 75% coverage up to a total of \$15,000.

BMP type(s):

Rain Garden(1)

Grant Request:

\$5,300.00

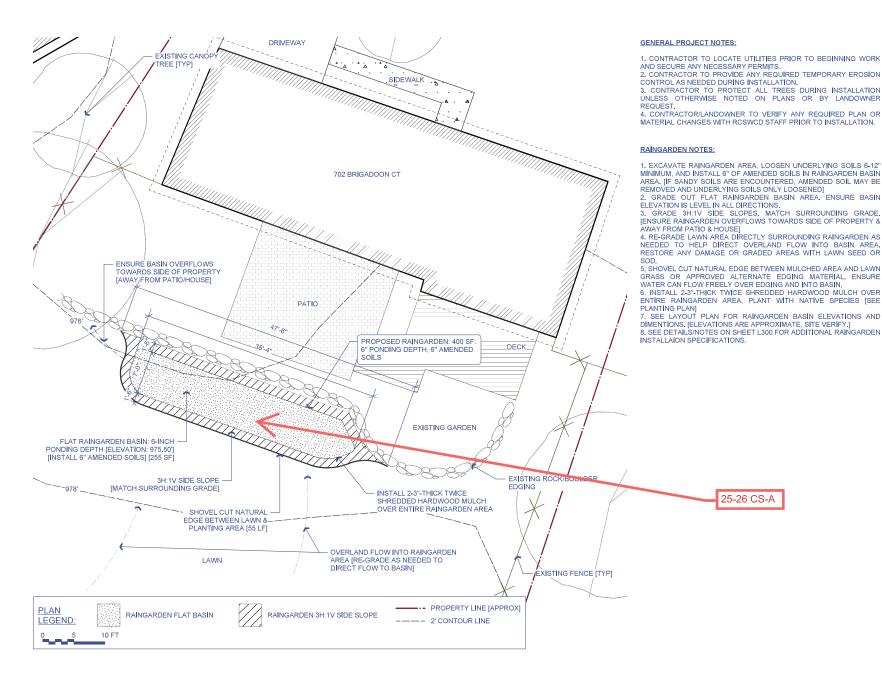
Recommendation:

Staff recommends approval of this application.

Subwatershed:

Snail Lake







RAMSEY COUNTY SWCD 2015 VAN DYKE STREET MAPLEWOOD, MN 55109 651-266-7280

www.ramseycounty.us

PROJECT: CASSIDY RESIDENCE

LOCATION:

702 BRIGADOON CT SHOREVIEW, MN 55126

WATERSHED DISTRICT:



DESIGNER: BRIAN T. OLSEN

DATE: 3/24/2025

PAST REVISION: PAST REVISION:

PAST REVISION:

ST KEVISION:

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"=10'-0"

SITE LAYOUT

L100

Project Name: Lake Place Homes Association Application Number: 25-29 CS

Board Meeting Date: 6/4/2025

Applicant Name: <u>Jennifer VanDeVeire, Lake Place Homes Association</u>

Residential Commercial/Government

Project Overview:

This project is located off Kent Street and North Owasso Blvd in the City of Shoreview. The applicant is proposing to install three rain gardens to capture roof runoff.

The rain gardens are eligible for 100% coverage up to a total of \$100,000.

BMP type(s):

Rain Garden(3)

Grant Request:

\$100,000.00

Recommendation:

Staff recommends approval of this application.

Subwatershed:

Lake Owasso



COMMON NAME	SCIENTIFIC NAME	BLOOM TIME	SIZE	COST EACH	QUANTITY	COST
SMOOTH BLUE ASTER	ASTER LAEVIS	L	3.5"/18T	\$32.00	8	\$256.00
PENNSYLVANIA SEDGE	CAREX PENSYLVANIA	E/M	3" / 24T	\$54.95	8	\$439.60
PRAIRIE SMOKE	GEUM TRIFLORUM	E/M	3" / 24T	\$42.00	8	\$336.00
BLUE FLAG IRIS	IRIS VERSICOLOR	E/M	#1	\$8.00	69	\$552.00
SWITCH GRASS	PANICUM VIRGATUM	М	#1	\$8.00	60	\$480.00
DOUBLE SHREDDED HARDWOOD MULCH	DOUBLE SHREDDED HARDWOOD MULCH	N/A	N/A	\$39.95	30	\$1,198.50
GRAY TRAP OUTCROPPINGS	N/A	N/A	N/A	\$78.00	81	\$6,318.00
DRAINTILE / CATCH BASINS AND TRENCHING	12" CATCH BASINS AND 4" DRAINTII F	N/A	N/A	N/A	12	\$20,500.00
EXCAVATION / EARTHWORK	LABOR			\$206.00	223 CY	\$46,000.00
PLANT / MULCH/ OUTCROPPING INSTALL ATION	LABOR					\$6,422.90
RESTORATION OF EXISTING LANDSCAPE	LABOR / MATERIALS					\$25,787.29
					OTAL COST	\$108,290.29

EXCAVATION / EARTHWORK:

REMOVE EXISTING ROCK, PLANT MATERIAL AND DEBRIS IN BEDS ALONG BUILDING IN PREPARATION FOR TRENCHING AND DRAINTILE WORK

EXCAVATE RAIN GARDENS TO A DEPTH OF 24". AFTER DRAINTILE WORK IS COMPLETED, REUSE EXCAVATED RAIN GARDEN SOIL TO CREATE POSITIVE DRAINAGE AROUND THE BUILDING.

- AMEND 25 CY OF EXCAVATED SOIL WITH FILTER TOPSOIL BORROW (MNDOT 3877-2) AND REINSTALL APPROXIMATELY 8" IN BASE OF RAINGARDEN
- NATURAL EDGE RAIN GARDENS PERIMETER FOR RECEIVING MULCH
- RAKE SMOOTH

DRAINTILE:

- 12" CATCH BASINS INSTALLED BELOW CORRESPONDING GUTTERS
- 4" DRAINTILE INSTALLED AT A MINIMUM SLOPE OF 1% DAYLIGHT DRAINTILE INTO RAIN GARDENS

- -YEAR 1
 MONITOR RAIN GARDENS FOR WEEDS, INVASIVE SPECIES
 - AND PLANT ESTABLISHMENT INSPECT DRAINTILE SYSTEM TO ENSURE PROPER WORKING
 - CLEAR DEBRIS AND DEAD PLANT MATERIAL WHEN NECESSARY

-YEAR 2

- MONITOR RAIN GARDENS FOR WEEDS, INVASIVE SPECIES AND PLANT ESTABLISHMENT INSPECT DRAINTILE SYSTEM TO ENSURE PROPER WORKING
- ORDER CLEAR DEBRIS AND DEAD PLANT MATERIAL WHEN NECESSARY

- MONITOR RAIN GARDENS FOR WEEDS, INVASIVE SPECIES AND PLANT ESTABLISHMENT
- INSPECT DRAINTILE SYSTEM TO ENSURE PROPER WORKING
- CLEAR DEBRIS AND DEAD PLANT MATERIAL WHEN NECESSARY

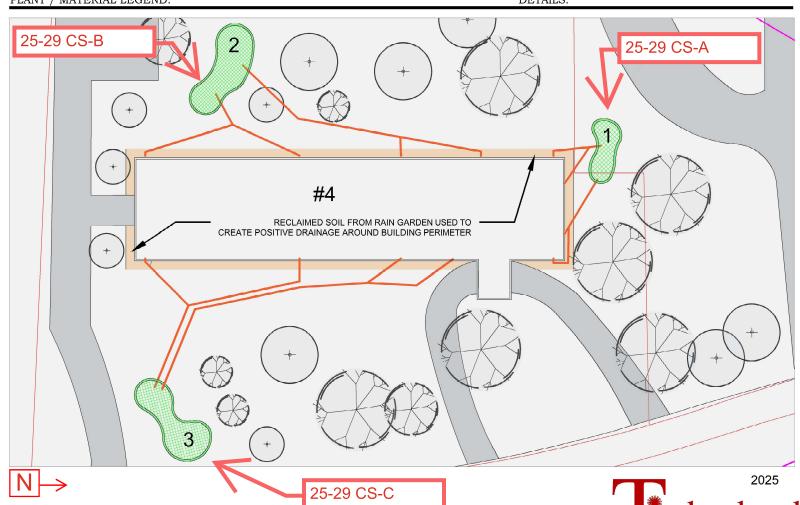
PLANT / MATERIAL LEGEND:

BLOOM:

M = MIDL = LATE

E = EARLY

DETAILS:



Lakeplace Homes - 3431 Kent St. Shoreview, MN 55126

Project Name: Hildebrand Application Number: 25-31 CS

Board Meeting Date: 6/4/2025

Applicant Name: <u>Karen Hildebrand</u>

Project Overview:

This project is located off Edgerton Street on Gervais Lake in the City of Little Canada. The applicant is proposing to install two rain gardens, porous aggregate, and native plantings.

The native plantings and rain gardens are eligible for 50% and 75% coverage, respectively, up to a total of \$15,000.

BMP type(s):

Native Habitat Restoration(1), Rain Garden(2)

Grant Request:

\$15,000.00

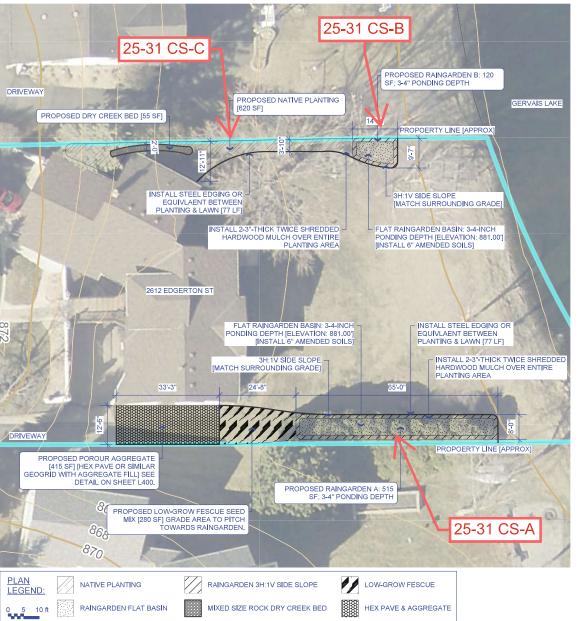
Recommendation:

Staff recommends approval of this application.

Subwatershed:

Gervais Lake





GENERAL PROJECT NOTES:

- 1. CONTRACTOR TO LOCATE UTILITIES PRIOR TO BEGINNING WORK AND SECURE ANY NECESSARY PERMITS. CONFRIM WITH RCSWCD STAFF IF ANY UNDERGROUND UTILITIES CONFLICT WITH PROPOSED PROJECT LOCATIONS
- 2. CONTRACTOR TO PROVIDE ANY REQUIRED TEMPORARY EROSION CONTROL AS NEEDED DURING INSTALLATION.
- 3. CONTRACTOR TO PROTECT ALL TREES IN/NEAR PROJECT AREA DURING INSTALLATION UNLESS OTHERWISE NOTED ON PLANS OR BY LANDOWNER REQUEST.

RAINGARDEN & FESCUE SEEDING NOTES:

- 1. EXCAVATE RAINGARDEN AREA, LOOSEN UNDERLYING SOILS 6-12" MINIMUM, AND INSTALL 6" OF AMENDED SOILS IN RAINGARDEN BASIN AREA. [IF SANDY SOILS ARE ENCOUNTERED, AMENDED SOIL MAY BE REMOVED AND UNDERLYING SOILS ONLY LOOSENED]
- 2. GRADE OUT FLAT RAINGARDEN BASIN AREA. ENSURE BASIN ELEVATION IS LEVEL IN ALL DIRECTIONS.
- 3, GRADE 3H:1V SIDE SLOPES, MATCH SURROUNDING GRADE.
- 4. INSTALL 2-3"THICK TWICE SHREDDED HARDWOOD MULCH OVER ENTIRE RAINGARDEN AREA, PLANT WITH NATIVE SPECIES [SEE PLANTING PLAN ON SHEET L200]
- 5. SEE PLAN DRAWING FOR RAINGARDEN BASIN ELEVATIONS AND DIMENTIONS. [ELEVATIONS ARE APPROXIMATE, SITE VERIFY.]
- 6. GRADE APEA BETWEEN RAINGARDEN AND CORNER OF HOUSE TO PITCH TOWARDS RAINGARDEN, INSTALL LOW-GROW FECSE SEED MIX AND EROSION CONTROL BLANKET OVER DISTURBED AREA, IBIODEGRADABLE NETTING BLANKET ONLY [SEE SHEET L300 FOR SUGGESTED LOW-GROW FESCUE SEED MIX & NOTES]
- ENSURE ALL COMPETING VEGETAION IN FESCUE AREA IS SCRAPED OR KILLED PRIOR TO INSTALLING SEED & BLANKET.
- INSTALL STEEL EDING BETWEEN NATIVE PLANTING AREA & EXISTING TURF LAWN. INSTALL FLUSH WITH GRADE SO WATER CAN FLOW FREELY OVER EDGING INTO BASIN.

NATIVE PLANTING NOTES:

- 1. REMOVE EXISTING TURF GRASS VEGETATION IN PROJECT AREA. HERBICIDE APPLICATION [1-2 MIINIMUM] OR EQUIVALENT MECHANICAL METHOD OF REMOVAL.
- 2. DEAD TURF GRASS CAN REMAIN IN PLACE FOR EROSION CONTROL PURPOSES ON AS NECESSARY. MOW GRASS SHORT AS NEEDED AND RAKE AREA TO PREP FOR PLANTING.
- 3. ONCE TURF GRASS IS EFFECIVELY KILLED, INSTALL 2-3"-THICK TWICE SHREDDED HARDWOOD MULCH OVER ENTIRE PLANTING AREA
- 4. INSTALL MIXED SIZE ROCK DRY CREEK BED FROM EXISTING DOWNSPOUTS & SUMP PUMP DOWN SLOPE TO LEVEL AREA OF PLANTING, [2-6" WASHED RIVER ROCK OR EQUIVALENT, NON-WOVEN GEOTEXTILE BETWEEN ROCK & SOIL] SEE LAYOUT PLAN FOR APPROXIMATE LOCATION & SHEET L400 FOR DETAILS.
- 5. INSTALL NATIVE PLANTS THROUGHOUT PLANTING AREA. SEE SUGGESTED PLANTING LIST PROVIDED ON SHEET L300.
- 6. INSTALL PERENNIALS AT 18-24" SPACING IN GROUPS OF LIKE SPECIES FOR EASY IDENTIFICATION AND WEEDING. INSTALL IN GROUPS OF 6-18 OF SAME SPECIES.
- 7. INSTALL SHRUBS AT 36-48" SPACING.
- 8. LANDOWNER/CONTRACTOR MAY ADD/SUBSTITUTE FINAL SPECIES FOR PROJECT. IF ALTERNATE SPECIES ARE USED, CONTRACTOR/LANDOWNER MUST PROVIDE A LIST INCLUDING SPECIES, SIZING, AND QUANTITY TO ROSWCD STAFF PRIOR TO PURCHASE AND INSTALLATION FOR APPROVAL.
- 9. INSTALL STEEL EDING BETWEEN NATIVE PLANTING AREA & EXISTING TURF LAWN, INSTALL FLUSH WITH GRADE SO WATER CAN FLOW FREELY OVER EDGING.
- 10. RESTORE ANY DAMAGE TO LANDSCAPE/TURF GRASS OUTSIDE OF PROJECT AREA WITH SEED OR SOD.
- 11. EXACT SIZE/SHAPE OF PLANTING AREA MAY VARY, MAINTAIN APPROXIMATE SQUARE FEET SIZE, VERIEY FINAL LAYOUT WITH LANDOWNER PRIOR TO HERBICIDE APPLICATION AND PROJECT INSTALLATION.

POROUS AGGREGATE NOTES:

1. SEE SECTION DETAIL & INSTALLATION NOTES ON SHEET L400.



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

PROJECT:

HILDEBRAND RESIDENCE

LOCATION:

2612 EDGERTON ST. LITTLE CANADA, MN 55117

WATERSHED DISTRICT:



DESIGNER: BRIAN T. OLSEN DATE: 4/28/2025

PAST REVISION: 4/25/2025

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"=20'-0"



SITE LAYOUT

L100

Stewardship Grant Application Summary

Project Name: Mehmel-Guiang Application Number: 25-33 CS

Board Meeting Date: 6/4/2025

Applicant Name: <u>Jennifer Mehmel</u>

Residential Commercial/Government

Project Overview:

This project is located off Hillsview West in the City of Roseville. The applicant is proposing to install a native habitat restoration.

The native habitat restoration is eligible for 50% coverage up to a total of \$15,000.

BMP type(s):

Native Habitat Restoration(1)

Grant Request:

\$6,100.00

Recommendation:

Staff recommends approval of this application.

Subwatershed:

Lake Owasso

Location Maps:



Project Areas & Dimensions

1. The project area is approximately 7,500 square feet.



25-33 CS-A

Site Preparation

- 1. Following the removal of invasive woody species by another contractor:
- 2. Allow the site to green up in the Spring/early Summer. This will give us a chance to scout for desirable plants to be preserved. On my early April walkthrough, I mostly observed small crowns of weeds such as reed canary grass, thistle, and creeping Charlie. However, there may be remnant natives that spout as the season warms.
- **3.** In areas with growing vegetation, apply an aquatic-rated herbicide. Follow up 14 or more days later with a touch-up spray.
- **4.** Repeat the process of allowing the site to green up followed by an herbicide application 3 or 4 times (the number of visits depends on how many noxious weeds we're observing, weather conditions (more rain=more weeds germinating typically), and project timeline.
- **5.** In the Fall if the weather allows or in the Spring of 2026, conduct a controlled burn to remove fallen leaves and other plant matter.
- **6.** Harrow or hand-rake the soil to remove thatch and create an open seedbed.

Request for Board Action

Board Meeting Date: June 4, 2025 Agenda Item No: <u>3E</u>

Preparer: Tina Carstens, Administrator

Item Description: Change Order 3 for 2025 CIP Maintenance and Repair Project

Background:

Change order 3 for the 2025 CIP Maintenance and Repair Project is attached. This change order pertains to two pond cleanouts for the cities of Maplewood and Woodbury. Both change order items will be reimbursed to the District through the Public Entity Cost Share (PECS) Program.

Applicable District Goal and Action Item:

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

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

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

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

Staff Recommendation:

Approve Change Order No. 3.

Financial Implications:

This change order will increase the contract price by \$4,341.37, all to be reimbursed to the RWMWD from the City of Maplewood (\$3,341.37) and the City of Woodbury (\$1,000.00).

Board Action Requested:

Approve Change Order No. 3.

Change Order No. 3 Ramsey-Washington Metro Watershed District 2025 Capital Improvement Project (CIP)

DATE OF ISSUANCE: May 20, 2025

Owner:

Ramsey-Washington Metro Watershed District

2665 Noel Drive

Little Canada, MN 55117 Attn: Val Eisele, President

Contractor:

Fitzgerald Excavating & Trucking, Inc.

21432 350th Street Goodhue, MN 55027

Attn: Jason Fitzgerald, President

Engineer:

Barr Engineering Company

4300 MarketPointe Drive, Suite 200

Minneapolis, MN 55435

Attn: Brad Lindaman, Project Engineer

C.O.3.A County Road C E - Site 12 Additional Work: Structure Connection Modifications

Description of Change:

Once uncovered by the excavation activities, the existing structure and downstream pipeline alignment was not consistent with drawing provided by the City of Maplewood. In order an effort to minimize costs and utilize the new manhole structure alignment with new the downstream pipe, additional work and materials were required to make the system function properly. The contractor performed this work in good faith under the engineer's direction.

The work will be measured based on a single LS (Lump Sum) unit to furnish and install as directed, all connections, two watertight pipe couplers and a 22.5-degree HDPE dual wall corrugated pipe bend, excavation, backfill, compaction all completed as specified and directed.

Change in Contract Price:

\$3,341.37 (to be reimbursed by the City of Maplewood as part of the PECS [Public Entity Cost Share] program)

Change in Contract Time:

None

Attachments:

- Email description and costs
- Material Invoice

C.O.3.B Woodbury Pond SC220 - Site 13 Additional Work: Structure Connection Modifications

Description of Change:

Once uncovered by the excavation activities, the existing structures were found to be inconsistent with the information provided by the city. The original pipes were found to be too short to reuse and had been constructed with inadequate connection to upstream pipes. These connections required additional work and materials to be installed. The contractor performed this work in good faith under the direction of the engineer after approval from the City of Woodbury.

The work will be measured based on a single LS (Lump Sum) unit to furnish and install as directed, two sections of RCP pipe, excavation, backfill, compaction all completed as specified and directed.

Change in Contract Price:

\$1,000 (to be reimbursed by the City of Woodbury as part of the PECS [Public Entity Cost Share] program)

Change in Contract Time:

None

Attachments:

- Email Quote
- Email Approval from Woodbury

This Change Order No. 3 is:

Submitted By: (ENGINEER)	Bradley J. Lindaman, Project Engineer Barr Engineering Company	Date: 05/21/2025
Authorized By: (OWNER)	Val Eisele, President Ramsey-Washington Metro Watershed District	Date:
Approved By: (CONTRACTOR)	Jason Fitzgerald, President Fitzgerald Excavating & Trucking, Inc.	Date: <u>5/22/2°2</u> 5

1 .. 1 1

Gareth W. Becker

From: Nick Dahle <nick@fitzexcavating.com>

Sent: Friday, April 25, 2025 9:46 AM **To:** Gareth W. Becker; David Vlasin

Cc: fitz8477@gmail.com

Subject: Re: 2025 CIP PayApp #3 and Change Order #2

Attachments: Change Order #2.pdf; Hold Harmless #3.pdf; Pay Application #3.pdf; Invoice.pdf

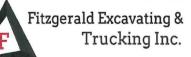
CAUTION: This email originated from outside of your organization.

Gareth,

Please see attached for signatures.

I have also attached our invoice for the Kohlman Lake structure. The existing bell housing on the RCP pipe was cut down to allow for the Mar Mac seal and 22.5 degree bend. We are seeking reimbursement for the cost of the 2 Mar Mac seals and 22.5 degree bend \$1,341.37 plus a \$2000 labor fee for installation. \$3341.37 Total.

Thanks,
Nick Dahle
21432 350th St. | Goodhue, MN 55027
Office 651.923.4060 | Cell 507.676.6615
Email Nick@fitzexcayating.com



From: Gareth W. Becker <GBecker@barr.com>
Sent: Thursday, April 24, 2025 3:22 PM
To: Nick Dahle <nick@fitzexcavating.com>
Cc: fitz8477@gmail.com <fitz8477@gmail.com>
Subject: 2025 CIP PayApp #3 and Change Order #2

Hi Jason,

Please review, sign or comment, and return these docs for the board meeting. Change order 2 is just the drawing where we added additional language about protecting the county ROW. There will be a change order next month that includes the additional work at Kohlman Lake structure and the additional pipe work in Woodbury. Waiting on pricing and discussion on those items.

Thanks!

Thanks

Gareth W. Becker

He/him/his
Senior Civil Specialist
Staffing Coordinator Associate
Minneapolis, MN office: 952.842.3580
GBecker@barr.com
www.barr.com



If you no longer wish to receive marketing e-mails from Barr, respond to communications@barr.com and we will be happy to honor your request.

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NEW Remit to: **Boys Water Products** PO Box 654 Shakopee, MN 55379

952-500-2308

Invoice

DATE: 4/24/2025

INVOICE #: INV-13360 CUST PO #:

TERMS: Net 30

DUE DATE: 5/24/2025

PROJECT: Ramsey Hennepin County

BILL TO Fitzgerald Excavating & Trucking Goodhue, MN 55027

SHIP TO	
Fitzgerald Excavating & Trucking	
Will Call Shakopee	
1109 Stagecoach Road	
Shakopee, MN 55379	

Qty	Description	Rate	Amt
1 EA	36" Corr. 22-1/2 Bend DW	\$481.71	\$481.71
2 EA	36" Mar Mac	\$378.00	\$756.00
		\$481.71 \$378.00 SUBTOTAL SHIPPING DISCOUNT TAX	\$1,237.71
			\$0.00
			\$0.00
			\$103.66
		TOTAL	\$1,341.37

Thank you for your business.

Sales Rep: Ted R. Boys 952-500-2308

Ordered by:

21432 350th St.

Invoice subject to 1.5% per month if not paid in 30 days of invoice date. If paying by credit card, please add 3.5% to the invoice total.

Gareth W. Becker

From:

Nick Dahle <nick@fitzexcavating.com>

Sent:

Tuesday, March 18, 2025 8:23 AM

To: Cc: Gareth W. Becker Jason Fitzgerald

Subject:

SC220 Ramsey Washington

CAUTION: This email originated from outside of your organization.

Gareth,

For the Furnish and Installation of 2 - 12" RCP sticks on the SC220 pond, we would charge \$1,000.

Let me know if this is approved and we will proceed with getting the materials.

Thanks,
Nick Dahle
21432 350th St. | Goodhue, MN 55027
Office 651.923.4060 | Cell 507.676.6615
Email Nick@fitzexcavating.com

Fitzgerald Excavating & Trucking Inc.

Gareth W. Becker

From:

Seaman, Kristin < kristin.seaman@woodburymn.gov>

Sent:

Tuesday, March 18, 2025 8:59 AM

To:

Gareth W. Becker

Subject:

RE: SC220 Ramsey Washington

CAUTION: This email originated from outside of your organization.

Good to proceed, thank you!

Kristin Seaman

Environmental Resources Coordinator, she/her 8301 Valley Creek Rd | Woodbury, MN 55125 (651) 714-3593 | www.woodburymn.gov

Woodbury

From: Gareth W. Becker < GBecker@barr.com> Sent: Tuesday, March 18, 2025 8:55 AM

To: Seaman, Kristin < kristin.seaman@woodburymn.gov>

Subject: Fwd: SC220 Ramsey Washington

CAUTION: External Message.

Please let me know if ok to proceed.

Thanks!

Gareth W. Becker (via mobile)

Sr. Civil Specialist Minneapolis, MN

office: <u>952.842.3580</u>

GBecker@barr.com

From: Nick Dahle <nick@fitzexcavating.com>
Sent: Tuesday, March 18, 2025 8:22:45 AM
To: Gareth W. Becker <GBecker@barr.com>
Cc: Jason Fitzgerald <fitz8477@gmail.com>
Subject: SC220 Ramsey Washington

CAUTION: This email originated from outside of your organization.

Gareth,

For the Furnish and Installation of 2 - 12" RCP sticks on the SC220 pond, we would charge \$1,000.

Let me know if this is approved and we will proceed with getting the materials.

Thanks,
Nick Dahle
21432 350th St. | Goodhue, MN 55027
Office 651.923.4060 | Cell 507.676.6615
Email Nick@fitzexcavating.com

Fitzgerald Excavating & Trucking Inc.

Permit Program

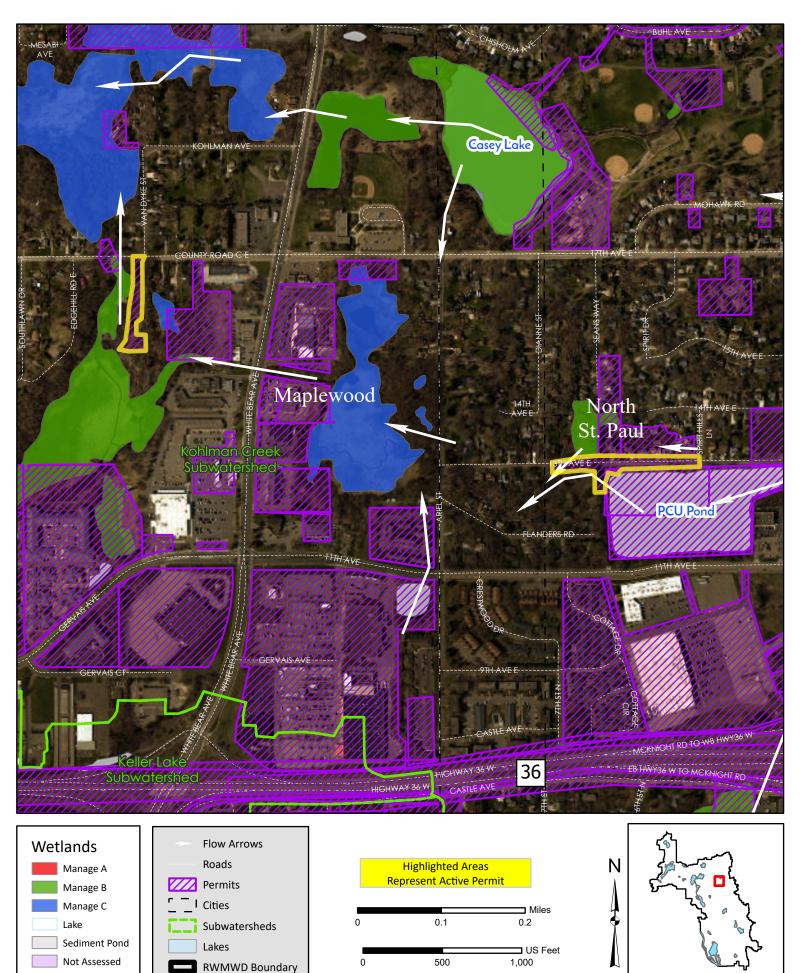
Permit Application Coversheet

Date June 04, 2025
Project Name RWMWD Kohlman Creek Flood Risk Reduction Project Number 25-16
Applicant Name Paige Ahlborg, RWMWD
Type of Development Flood Control
Property Description This RWMWD-led project is located in the Kohlman Creek subwatershed at two different locations: off County Road C west of White Bear Avenue in Maplewood, and north of Target (PCU) Pond in North St. Paul. Two flood protection berms and storm sewer improvements are proposed as identified in the Kohlman Creek Flood Risk Reduction Feasibility Report, presented to the Board of Managers in February 2024. The total disturbed area is approximately 2 acres. The berms will be restored with erosion control blanket and seed mixes. Due to the lack of new/reconstructed impervious area, permanent stormwater management is not required. Proposed removal of a steel plate from the upstream end of the County Road C box culvert will result in an increase in discharge rates for the 2- and 10-year storm events, thus a variance request to Rule C (Stormwater Management) is enclosed for review. Impacts to the subwatershed were assessed, and there is no indication of increased erosion, degradation, or flood risk downstream. The berm construction and placement require fill within the 100-year floodplain, however the purpose of the project is to reduce flood risk to habitable structures without increasing flood risk to other areas, thus meets the overall goal of Rule D (Flood Control).
Watershed District Policies or Standards Involved:
 ✓ Wetlands ✓ Erosion and Sediment Control ✓ Stormwater Management ✓ Floodplain
Water Quantity Considerations This project is proposed to increase discharge rates, however the flood control risk/benefit has been sufficiently assessed such that there are no anticipated increased impacts to downstream habitable structures and erosion within the creek.
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 anticipated long term water quality concerns.
Staff Recommendation Staff recommends approval of this permit with the special provisions and variance request (Rule C).

Attachments:

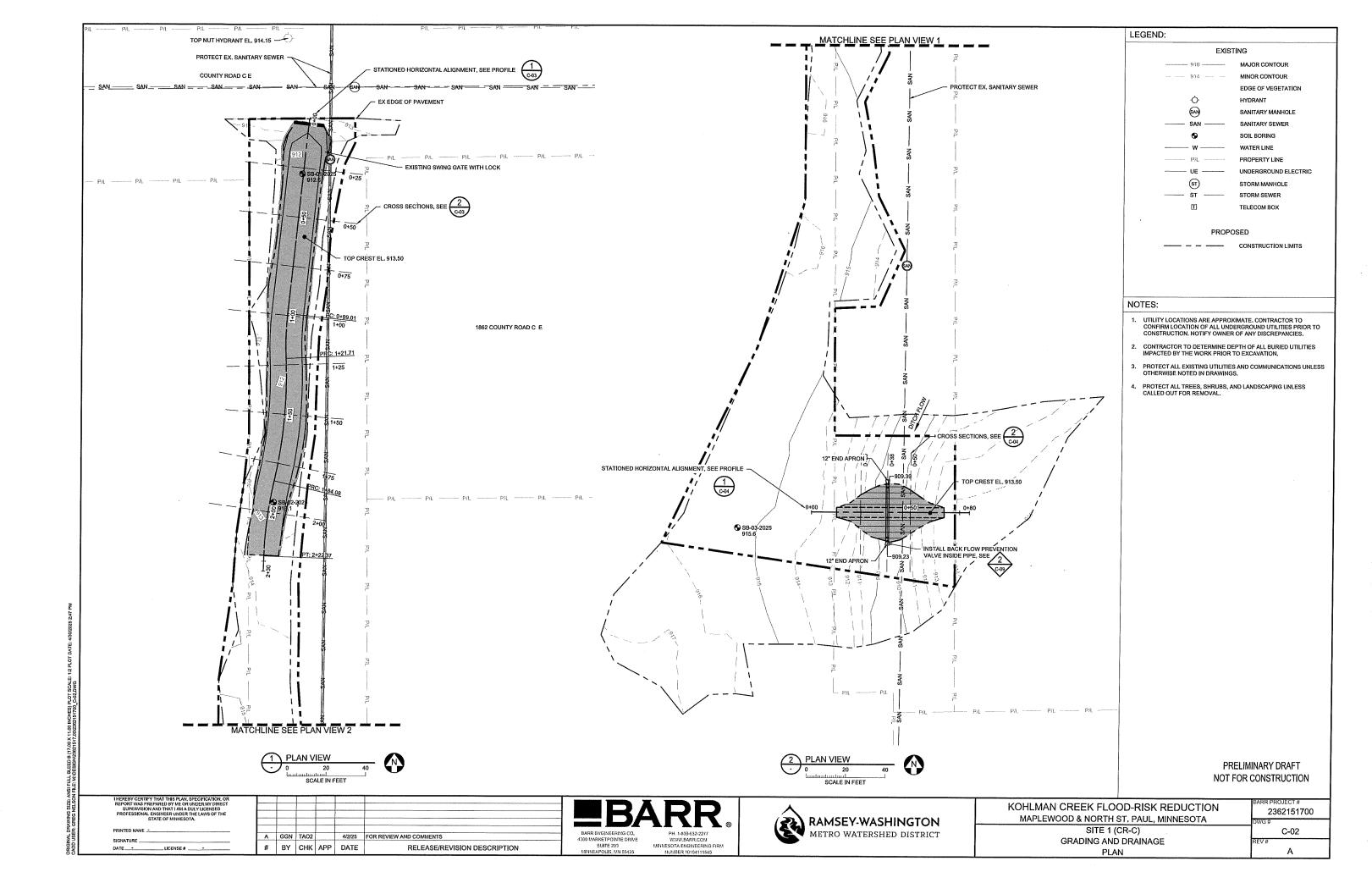
- ✓ Project Location Map
- ✓ Project Grading Plan

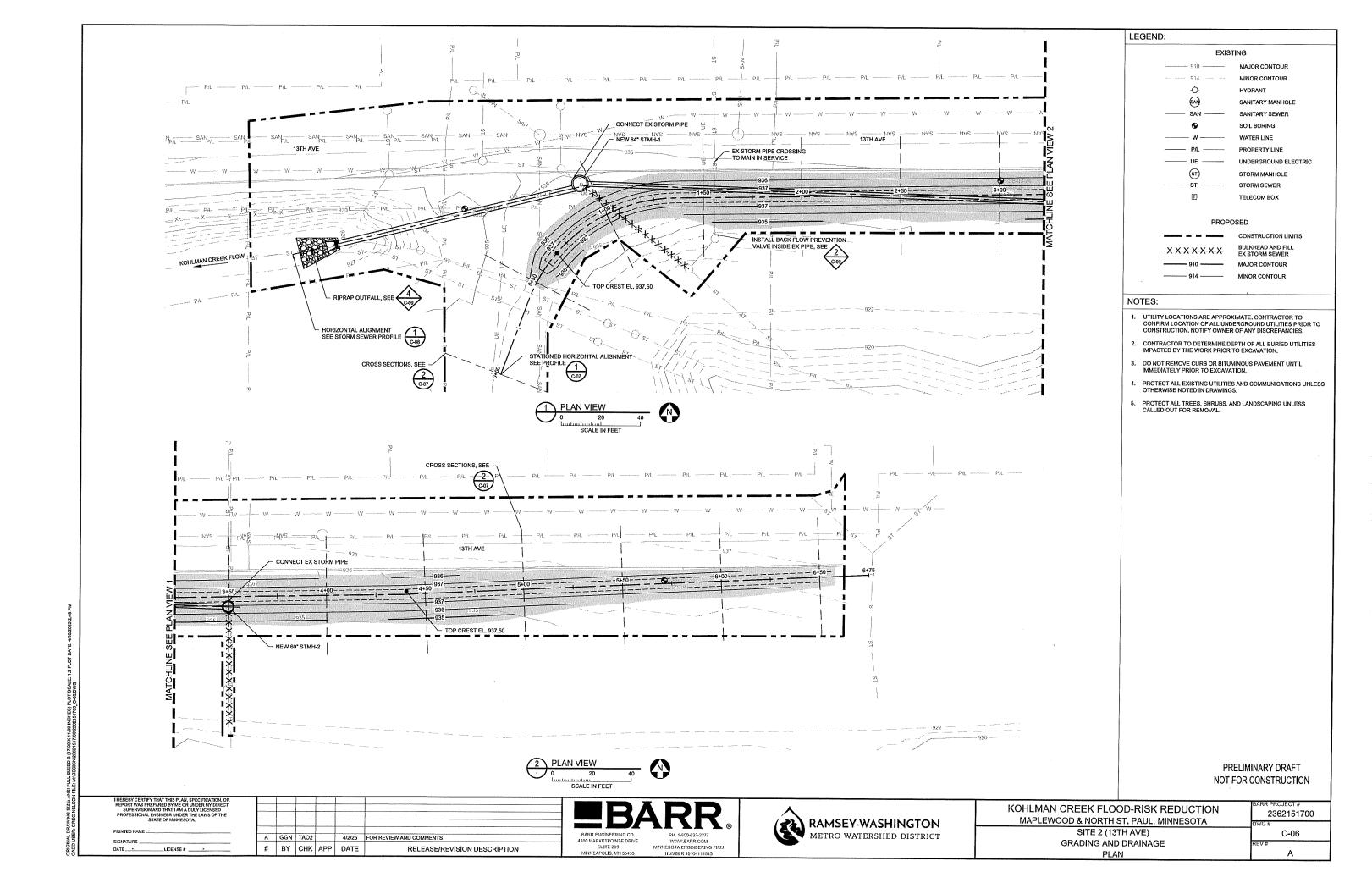
#25-16 RWMWD Kohlman Creek Flood Risk Reduction



Special Provisions

- 1. The applicant shall submit the final, signed plans set for construction.
- 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.







Technical Memorandum

To: Ramsey Washington Metro Watershed District (RWMWD) Board of Managers

From: Brandon Barnes, Tyler Olsen, Parker Brown (Barr Engineering Co.)

Subject: Country Road C Discharge Increase and Downstream Impacts to Kohlman Creek

Date: May 28, 2025 **Project:** 23621517

c: Tina Carstens, Paige Ahlborg, Nicole Maras

1 Introduction and Project Background

There are four habitable structures at risk of flooding during the 100-year event along Gervais Avenue and Gervais Court, west of White Bear Avenue in Maplewood, MN due to high water levels in Kohlman Creek, which runs to the north of the structures through a large wetland. Similarly, in North St. Paul, MN, seven habitable structures north of 13th Avenue face flooding risks from PCU Pond, which overflows across 13th Avenue during the 100-year event.

To address these flood risks, the Kohlman Creek Flood Risk Reduction Feasibility Study (Barr, 2022) identified several improvements for flooding along Kohlman Creek. Several of the improvements recommended in the study have been designed and/or constructed. These improvements include replacement of the existing 42-inch culvert crossing County Road C is to be replaced by a 4-foot by 10-foot concrete box culvert (with 1 foot of substrate in the culvert), which was constructed in 2024, flood protection berms south of County Road C, and a flood protection berm and rerouting of storm sewer at PCU Pond.

Construction of these flood-risk reduction projects trigger RWMWD Rule C, which states that runoff rates shall not exceed existing runoff rates for the 2-year, 10-year, and 100-year critical storm events. While the combined project implementation decreases peak storm flows in Kohlman Creek at County Road C (which was a previous flow restriction in the creek) for the 100-year 96-hour event, the projects increase peak storm flows for smaller storm events (e.g., 10-year 96-hour and smaller) at County Road C and in the downstream portion of Kohlman Creek to Markham Pond. The 100-year floodplain downstream of County Road C will be contained to publicly owned (Ramsey County) property and freeboard between the 100-year floodplain and existing structures will meet the freeboard requirements in RWMWD Rule D.

To control existing runoff rates for smaller storm events at County Road C, a restrictive steel plate was installed with the new culvert in 2024. However, this plate does not achieve the full reduction in flood levels upstream in Kohlman Creek. Barr completed a hydraulic assessment of Kohlman Creek downstream of County Road C, considering the future removal of the plate to fully achieve flood level reduction benefits. This assessment aimed to identify potential impacts to Kohman Creek, such as increased erosion. The subsequent sections describe this assessment. Ultimately, Barr concluded from this assessment that the velocity and shear stress increases in the creek do not indicate the potential for increased erosion or degradation of Kohlman Creek. Therefore, we recommend the removal of the restrictive steel plate from the upstream end of the new County Road C culvert.

2 Downstream Impacts Assessment

Barr evaluated the downstream impacts resulting from the County Road C culvert replacement and other flood-risk reduction projects using existing and proposed conditions XPSWMM model results along with

To: Ramsey Washington Metro Watershed District (RWMWD) Board of Managers

From: Brandon Barnes, Tyler Olsen, Parker Brown (Barr Engineering Co.)

Subject: Country Road C Discharge Increase and Downstream Impacts to Kohlman Creek

Date: May 28, 2025

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observations from a June 2024 field visit. The study area for this assessment consists of the 3,000 ft of Kohlman Creek between the County Road C crossing and Markham Pond. This section describes the modeling results and field assessment as they relate to changes in flow and velocity in the creek.

2.1 Site Visit Observations

On July 25, 2024, Barr and RWMWD staff walked the section of creek between County Road C and Markham Pond to document the existing condition of the creek. The creek was found to be in generally good condition and was noted by RWMWD staff to be consistent with previous inspections. A map of the study area with stationing is shown in Figure 1. The upstream portion of the study area extends approximately 1,000 feet from County Road C and consists of a meandering stream with well-established banks. The stream bed material is primarily sandy with small to medium rocks with a diameter of less than 6 inches deposited throughout. Staff noted instances of bank erosion on outer banks of stream bends, and some widened channel sections where sediment deposition formed islands in the middle of the creek. The middle portion of the study area extended from approximately 1,000 to 1,700 feet downstream County Road C. This portion had fewer bends and less observed bank erosion. The downstream portion of the channel extended the remaining 1,300 feet of the study area. This reach was generally narrower, running through a tallgrass prairie with a large floodplain.



Photo 1 Typical section in first 400 feet of study area, showing well-established bank vegetation.

Ramsey Washington Metro Watershed District (RWMWD) Board of Managers Brandon Barnes, Tyler Olsen, Parker Brown (Barr Engineering Co.) Country Road C Discharge Increase and Downstream Impacts to Kohlman Creek May 28, 2025

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Table 1 outlines the four locations where erosion was observed in conjunction with modeled velocity increases. Photo 2 and Photo 3 show examples of observed erosion and sediment deposition.



Figure 1 Kohlman Creek stream path and stationing in feet.

To: From:

Ramsey Washington Metro Watershed District (RWMWD) Board of Managers Brandon Barnes, Tyler Olsen, Parker Brown (Barr Engineering Co.) Country Road C Discharge Increase and Downstream Impacts to Kohlman Creek May 28, 2025 Subject: Date:

Page:

Table 1 Observed erosion and stability issues in Kohlman Creek

Erosion Location	Approximate Stationing	Observed Issue
Location 1	280	Erosion on right bank
Location 2	450	Sediment deposition forming island
Location 3	450	Right bank erosion just downstream of sediment island
Location 4	800	Erosion on outer bend – Right bank

Ramsey Washington Metro Watershed District (RWMWD) Board of Managers Brandon Barnes, Tyler Olsen, Parker Brown (Barr Engineering Co.) Country Road C Discharge Increase and Downstream Impacts to Kohlman Creek May 28, 2025

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Photo 2 Observed right bank erosion (Location 1 - 280ft)



Photo 3 Widened Channel with sediment deposition (Location 3 - 450 ft)

To: Ramsey Washington Metro Watershed District (RWMWD) Board of Managers

From: Brandon Barnes, Tyler Olsen, Parker Brown (Barr Engineering Co.)

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2.2 XPSWMM Peak Velocity Results

Barr summarized peak velocity modeling results for the creek section downstream of County Road C using existing and proposed conditions XPSWMM models. A comparison of peak existing and proposed velocities within the study area for the 10-, 2-, and 1-year storm events are shown in Figure 2, Figure 3, and Figure 4, respectively. The XPSWMM model results show the most significant increases in peak channel velocity in the first 1,000 feet of the channel. Peak velocity for the 10-, 2-, and 1-year storm events are shown in Figure 2, Figure 3, and Figure 4, respectively.

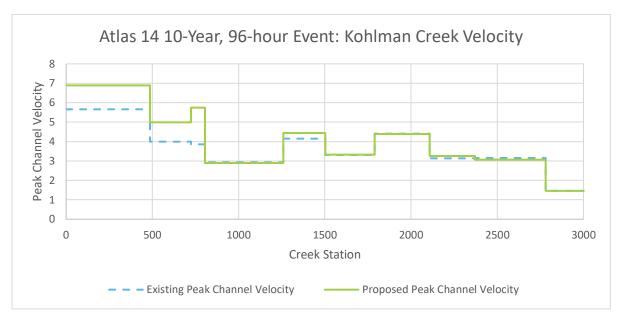


Figure 2 Peak stream velocities modeled for the 10-Year, 96-hour event.

Ramsey Washington Metro Watershed District (RWMWD) Board of Managers

Brandon Barnes, Tyler Olsen, Parker Brown (Barr Engineering Co.)

Subject: Country Road C Discharge Increase and Downstream Impacts to Kohlman Creek

Date: May 28, 2025

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To:

From:

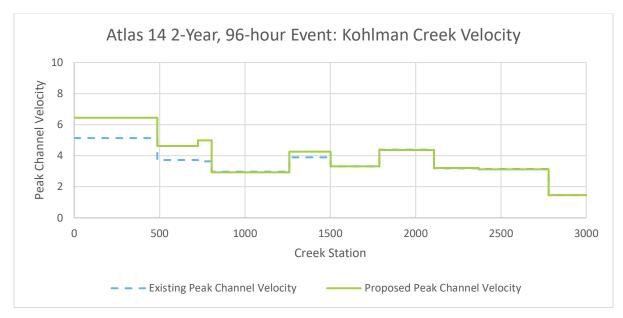


Figure 3 Peak stream velocities modeled for the 2-Year, 96-hour event.

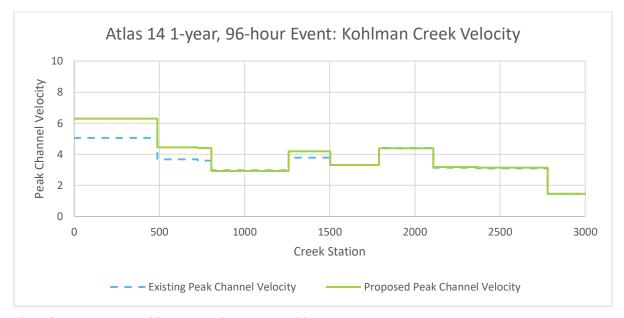


Figure 4 Peak stream velocities modeled for the 1-Year, 96-hour event.

2.3 XPSWMM Flow Duration analysis

To evaluate the study area's stability under proposed conditions, Barr conducted a velocity duration analysis using results from the existing and proposed XPSWMM models, generating four curves showing the percentage of time specific stream velocities were equaled or exceeded for the 1-, 2-, 10-, and 100-

To: Ramsey Washington Metro Watershed District (RWMWD) Board of Managers

From: Brandon Barnes, Tyler Olsen, Parker Brown (Barr Engineering Co.)

Subject: Country Road C Discharge Increase and Downstream Impacts to Kohlman Creek

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year storms. The comparison focused on flows approximately 700 feet downstream of County Road C, where the largest increase in stream velocity was modeled. Using these flow duration curves, Barr determined a threshold velocity from Figure 2 in Technical Note TN-EMRRP-SR-29, "Stability Thresholds for Stream Restoration Materials." The nomograph outlines velocity thresholds for stream stability as a function of stream bed material and flow duration. To determine a threshold velocity for Kohlman Creek, the coverage was assumed to be good grass cover with the flow duration taken as the amount of time proposed velocity exceeds existing velocity. The computed threshold velocity and existing and proposed flow-duration curves for the four events analyzed are shown in Figure 5 through Figure 8.

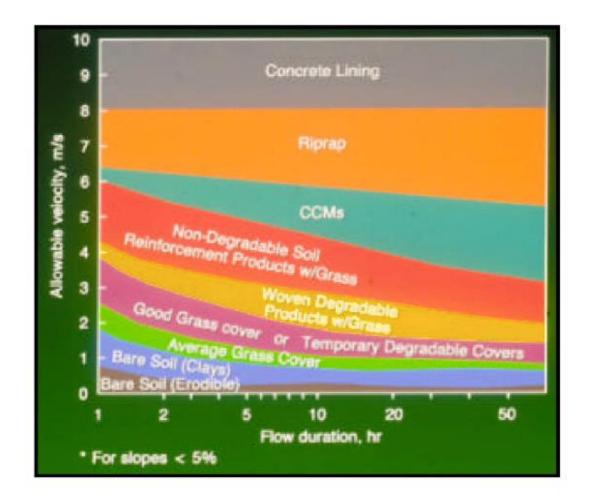


Image Source: Figure 2 - Technical Note TN-EMRRP-SR-29 Stability Thresholds for Stream Restoration Materials

Ramsey Washington Metro Watershed District (RWMWD) Board of Managers

Brandon Barnes, Tyler Olsen, Parker Brown (Barr Engineering Co.) Country Road C Discharge Increase and Downstream Impacts to Kohlman Creek From:

Subject: Date: May 28, 2025

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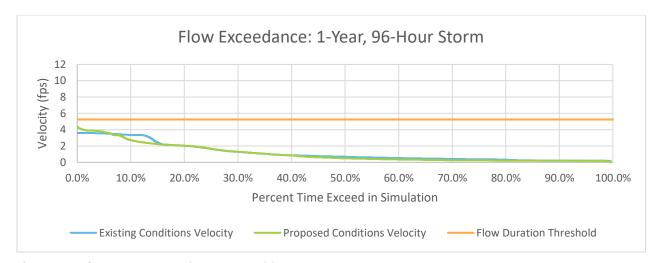


Figure 5 Velocity exceedance plot for the 1-Year, 96-Hour storm

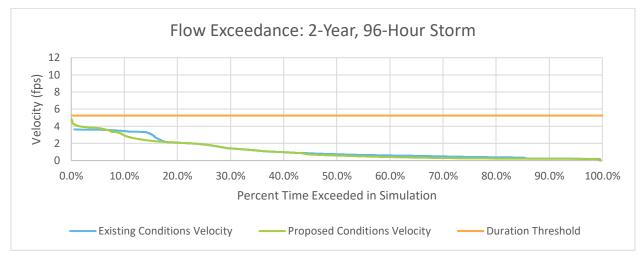


Figure 6 Velocity exceedance plot for the 2-Year, 96-Hour storm

Ramsey Washington Metro Watershed District (RWMWD) Board of Managers

Brandon Barnes, Tyler Olsen, Parker Brown (Barr Engineering Co.)

From: Subject: Country Road C Discharge Increase and Downstream Impacts to Kohlman Creek

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To:



Figure 7 Velocity exceedance plot for the 10-Year, 96-Hour storm

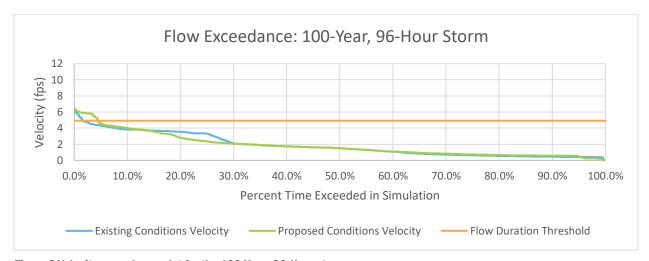


Figure 8 Velocity exceedance plot for the 100-Year, 96-Hour storm

For the 1- and 2-year storms, the proposed velocities are below the computed stability threshold, indicating no impacts to the stream banks despite increased velocities. However, the 10- and 100-year flows exceed the threshold by up to 1.5 fps. The threshold was calculated assuming good grass cover, though the actual stream banks are more densely vegetated with deeper root systems (Photo 1). This means the computed thresholds likely underestimate the actual conditions. Most of the study area should withstand the increased flows and velocities from the updated County Road C crossing. However, as noted in section 2.1, some areas with degraded banks will need a quantitative assessment (i.e., Bank Erosion Hazard Index) to determine erosion potential and stabilization needs.

To:

From:

Ramsey Washington Metro Watershed District (RWMWD) Board of Managers Brandon Barnes, Tyler Olsen, Parker Brown (Barr Engineering Co.) Country Road C Discharge Increase and Downstream Impacts to Kohlman Creek May 28, 2025 Subject:

Date:

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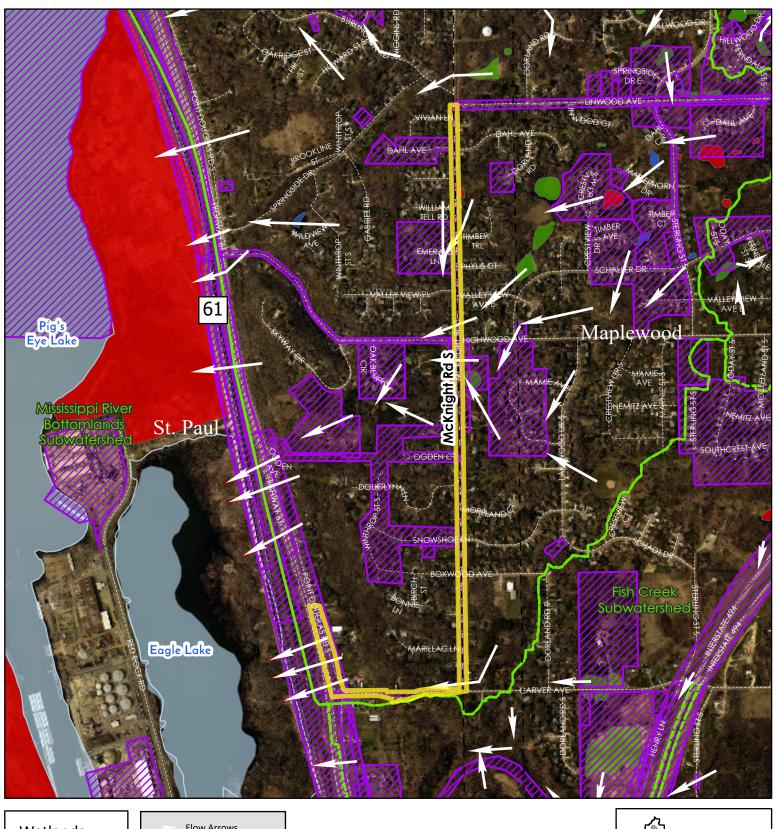
3 **Recommendations**

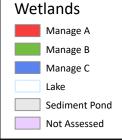
Barr recommends allowing full flow through the updated County Road C culvert. Barr also recommends undergoing a quantitative stream assessment of Kohlman Creek to determine the stabilization requirements for eroded areas outlined in this memo.

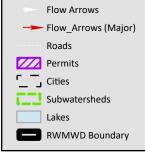
Permit Application Coversheet

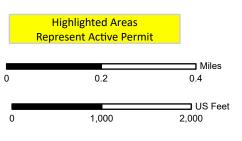
Date June 04, 2025		
Project Name Xcel ECL Renewal	Project Number	25-17
Applicant Name Matt Sherry, Xcel Energy, Inc.		
Type of Development Utility Maintenance		
Property Description		
This project is located east of Pigs Eye Lake in the Blufflands s of McKnight Road S, Carver Avenue, and Point Douglas Road in St. Paul. The applicant is proposing to install a gas casing line of Gray (ROW). The project will also include some directional distoral disturbed area is approximately 3 acres. While the trench reconstruction of impervious area, a variance request for permic (Rule C) is enclosed for review due to lack of ROW ownership, and no changes proposed to existing conditions with respect to and site runoff rates.	the cities of Maple via trench within ex rilling under Highw method does requ anent stormwater ack of new imperv	ewood and kisting Right- ay 10. The lire treatment vious area,
Watershed District Policies or Standards Involved:		
☐ Wetlands	Control	
☑ Stormwater Management ☐ Floodplain		
Water Quantity Considerations There are no water quantity concerns.		
Water Quality Considerations		
Short Term The proposed erosion and sediment control plan is sufficient to resources during construction.	protect downstre	eam water
Long Term		
There are no long term water quality concerns.		
Staff Recommendation		
Staff recommends approval of this permit with the special prof(Rule C).	visions and variand	e request
Attachments:		
✓ Project Location Map		
☐ Project Grading Plan		

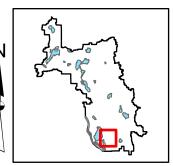
#25-17 Xcel ECL Renewal











Special Provisions

- 1. The applicant shall add redundant perimeter control adjacent to an identified Manage A wetland near McKnight Rd S and William Tell Rd, if disturbance is anticipated within 50' of the wetland.
- 2. The applicant shall add a notes to the plans:
- A. Notify Mary Fitzgerald, Ramsey-Washington Metro Watershed District, at 651-792-7956 prior to beginning construction activity for 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 submit the escrow payment of \$14,750.
- 4. The applicant shall submit the final, signed plans set.
- 5. The applicant shall submit a copy of the approved Minnestoa Pollution Control Agency's NPDES Construction Permit coverage for the project.



May 20, 2025

Ramsey-Washington Metro Watershed District Board of Managers 2665 Noel Dr Little Canada, MN 55117

Memo: 20" East Casing Line Renewal Construction Variance Request

Carlson McCain has prepared this memo on behalf of Xcel Energy, Inc. (Xcel), as an official request for Variance for the 20" East Casing Line (ECL) Renewal Project (Project) grading permit application submitted to the Ramsey-Washington Metro Watershed District (RWMWD). Request details are given below.

Request and Description

A grading permit application for the Project was submitted to the RWMWD on May 7, 2025. As part of the Project, the application discussed rational and request for variance from certain requirements in Rule C of the Watershed's Rules. In the issued review of the application, emailed on May 16, 2025, the RWMWD commented that a standalone request for Variance from Rule C should be submitted.

Xcel requests the Project be exempt from Rule C as a Variance to the permit application submitted May 7, 2025, and as to be revised based upon RWMWD's other comments received May 16, 2025. Rational for the Variance request is presented below.

1. Xcel does not own ROW where project is taking place:

The Project will be constructed in ROW for gas utility installation. The ROW is owned by the Cities of St. Paul and Maplewood. Construction of stormwater runoff controls is not feasible in the ROW due to Xcel not owning property to construct stormwater controls.

2. No increase in impervious area

The Project will restore all areas to match existing conditions. Runoff quantity, quality, and rates will not increase from pre-development conditions since there will be no changes in impervious area.

3. No change in grading/contours over existing conditions

The Project will restore all areas to match existing conditions. Runoff quantity, quality, and rates will not increase from pre-development conditions since there will be no changes to existing grades or ground cover.

4. No anticipated wetland or wetland buffer impacts due to being limited to existing ROW extents Construction will take place within the ROW, primarily within the existing roadway. Wetlands identified by the RWMWD mapper are shown on submitted plans. Wetlands and buffers are not

expected to be impacted (i.e. there will be no draining, filling, excavating or other alteration of wetlands or buffers). Proposed disturbed area is shown in the plans. As well, sediment control best management practices will be installed as shown in submitted plans, and as revised based upon RWMWD comments to prevent sediment runoff and erosion of wetlands and buffers.

If there are any questions or if additional information is required, please contact me at (952) 346-3854 or bpeterson@carlsonmccain.com or Matthew Sherry at (262) 443-2312 or Matthewson. Thank you.

Regards,

Carlson McCain, Inc.

Symme Stum

Brannon Peterson, P.E.

Project Engineer

Carlson McCain, LLC Page 2



REGULATORY PROGRAM MONTHLY MEMORANDUM

Date:	June	4 th ,	2025
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To: Board of Managers and Staff

From: Nicole Maras, Regulatory Program Manager

Mary Fitzgerald, Regulatory Specialist Kendra Kloth, Regulatory Technician

During May 2025:

Number of Violations:	9
Install/Maintain Inlet Protection	2
Contain/Dispose of Liquid or Solid Wastes	2
Remove Sediment from Offsite Areas	2
Install/Maintain Construction Entrance	1
Sweep Streets	1
Maintain Permanent BMPs	1

Permit Program- Ongoing Activities, Trainings, and Coordination Meetings:

- Ongoing: Site inspections/reporting, rule guidance assistance & inquiries, Wetland Conservation Act (WCA) administration, permit submittal review with Barr Engineering, permit webpage updates, MS4 action items and data tracking, performance reviews
- 5/7- RWMWD/MPCA introductory meeting
- 5/12- Ramsey County Environmental Center staff tour
- 5/13- Wetland mitigation TEP review: Launch Properties, Woodbury
- 5/16- Underground facility inspections with Barr Engineering
- 5/19- Wetland mitigation TEP discussion: The Heights
- 5/21- Post-board meeting follow-up meeting with development team: Vadnais Heights Workforce Housing
- 5/21- Meeting w/ City of Woodbury: upcoming Woodbury Public Safety project
- 5/23- 48-hour post rain event BMP inspections
- 5/25- Employee Right-to-Know and IDDE training
- 5/31- WaterFest!

Single Lot Residential Permits Approved by Staff:

None

Permits Closed:

19-42 American Indian Magnet School Addition (St. Paul)

22-01 MnDOT Highway 36 Drainage Infrastructure (Little Canada/Maplewood/North St. Paul)

24-11 MnDOT Courtly Road Improvements (Woodbury)

48-hour Drawdown Inspections

Staff utilize visual inspections post rain events for permanent stormwater BMPs to ensure they meet drawdown requirements of 48 hours. The rain events on May 20th-21st were well timed for staff to go out on Friday May 23rd to check for standing water at infiltration basins, filtration basins, rain gardens and other above-ground BMPs. This inspection is part of RWMWD's checklist for closing permits. Staff visited several sites throughout the district and found all above-ground BMPs to be functioning properly. This was great to see as it's not always the case to find them all functional upon initial inspection. Many of the BMPs still need vegetation establishment so staff will continue to check on these sites until sufficient vegetation cover is observed before closing permits.









Stewardship Grant Program

Stewardship Grant Application Summary

Project Name: Preuss Application Number: 25-32 CS

Board Meeting Date: 6/4/2025

Applicant Name: Nathan and Jamie Preuss

Project Overview:

This project is located off Edgerton Street along Gervais Creek in the City of Little Canada, just upstream of RWMWD's Keller Parkway culvert replacement project. The applicant is proposing to install a shoreline restoration.

The shoreline restoration is eligible for 100% coverage up to a total of \$15,000. The applicant requested that the entire cost of the project be funded at \$26,783. See the attached summary for more details.

BMP type(s):

Shoreline Restoration(1)

Grant Request:

\$15,000.00

Recommendation:

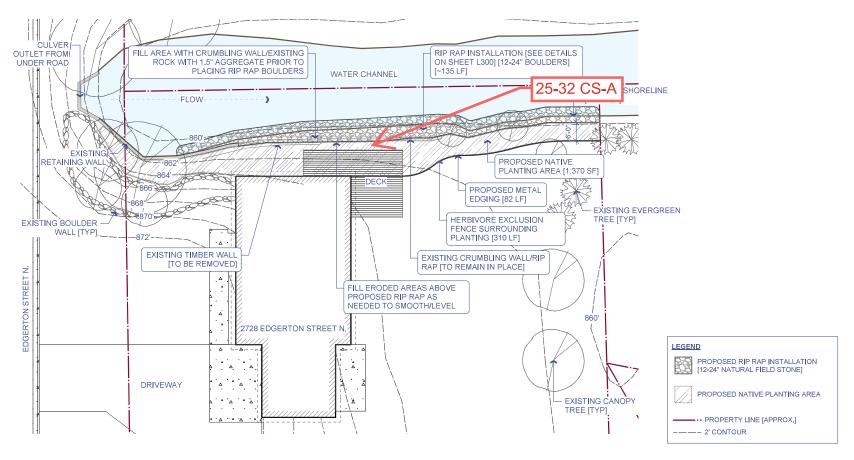
Staff recommends approval of this application.

Subwatershed:

Gervais Creek

Location Maps:





CHANNEL SHORELINE STABILIZATION NOTES:

- 1. PROJECT LAYOUT, TOTAL AREA, AND MATERIALS MAY VARY WITH RCSWCD STAFF APPROVAL. VERIFY FINAL LAYOUT WITH LANDOWNER PRIOR TO HERBICIDE APPLICATION AND PROJECT INSTALLATION.
- INSTALL ~135 LINEAR FEET TOTAL OF 12-24" AVERAGE DIAMETER NATURAL FIELD STONE RIP RAP PER SPECIFICATIONS PROVIDED IN THESE PLANS. [OR APPROVED BOULDER ALTERNATIVE]
- 3. USE 1.5" ČLEAR ANGUALR ROCK FOR FILITER LAYER BELOW FIELDSTONE RIP RAP & TO FILL IN AREAS WITH EXISTING ROCK/CRUMBLING WALL. DO NOT USE LANDSCAPE FABRIC.
- 4. REMOVE EXISTING TIMBER WALL AS SHOWN ON PLAN.
- 5. REMOVE EXISTING TURF GRASS & OTHER VEGETATION IN PROJECT AREA. HERBICIDE APPLICATION [1-2 MIINIMUM] [USE WATER-SAFE HERBICIDE]
- 6. PREP PLANTING AREAS FOR NATIVE PLANT INSTALLATION. REMOVE EXCESS VEGETATION OR WOODY DEBRIS, ETC. ENSURE ALL COMPETING VEGETATION IS ADEQUATELY ELIMINATED.
- 7. INSTALL TOPSOIL TO FILL EROEDED BANKS ABOVE INSTALLED RIP RAP AS NECESSARY TO SMOOTH/LEVEL PLANTING AREA.

- 8. INSTALL 3" THICK TWICE SHREDDED HARDWOOD MULCH OVER ENTIER PLANTING AREA, PLANT WITH NATIVE SPECIES PER PLANTING PLAN PROVIDED ON SHEET L200,
- 9. CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING PERMANTENT/TEMPORARY EROSION CONTROL MEASURES UNTIL PROJECT HAS BEEN APPROVED FOR PROJECT CLOSEOUT INCLUDING FLOATING SILT CURTAIN AS NEEDED.
- 10. CONTRACTOR TO SUBMIT FINAL SPECIES & QUANTITY LIST FOR APPROVAL PRIOR TO INSTALLATION, PROVIDED LIST TO INCLUDE SPECIES, SIZING, AND QUANTITY.
- 11. INSTALL STEEL EDGING ALONG LANDWARD PERIMETER OF PLANTING AREA BETWEEN MULCH AND LAWN AREA.
- 12. INSTALL HERBIVORE EXCLUSION FENCE SURROUNDING NATIVE PLANTING AREA. TO REMAIN IN PLACE FOR MINIMUM 2 GROWING SEASONS.
- 13. CONTRACTOR/LANDOWNER TO CONFIRM FINAL INSTALLATION DETAILS WITH RAMISEY-WASHINGTON METRO WATERSHED DISTRICT STAFF TO ENSURE COMPLIANCE WITH STANDARDS FOR WATERWAY SHORF! INF



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

PROJECT:

PRUESS RESIDENCE LOCATION:

2728 EDGERTON ST N. LITTLE CANADA, MN 55117

WATERSHED DISTRICT:



DESIGNER: BRIAN T. OLSEN DATE: 3/19/2025

PAST REVISION: PAST REVISION: PAST REVISION: PAST REVISION:

PAST REVISION: CHECKED BY:

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

N

-ORIGINAL SHEET SIZE: 11"x17"

SCALE: 1"=20'-0"

LAYOUT PLAN

L100



Stewardship Grant Application 25 - 32 CS Memo

Date: June 4th, 2025

To: Board of Managers

From: Ashlee Ricci, Grant Program Specialist

Nathan and Jamie Preuss, Homeowners

Memo:

The proposed project #25-32 CS is located at 2728 Edgerton Street N in Little Canada. The proposed project consists of shoreline stabilization with rip rap size MnDOT Class III and native planting area to create a buffer. The project area has an existing retaining wall and rip rap mixture that is crumbling along a portion of the channel and an area of erosion downstream of the crumbling wall.

The proposed project is upstream of RWMWD's 2021 capital improvement project Keller Parkway Conveyance Upgrades (CIP), which consisted of replacing an existing culvert. The applicant originally contacted the city of Little Canada with a concern that the Keller Parkway culvert replacement had increased erosion on their property. The city contacted the RWMWD in mid-July 2024 with the landowner's concern.

RWMWD staff reached out to the landowner and did a site review. In late July 2024, staff reached out to Barr Engineering to review the stormwater calculations for the Keller Parkway project. Barr reconfirmed that the Keller Parkway culvert replacement increased the cross-sectional area of the new culverts and would have no impact on the landowner's property. Modeling included 2-year to 100-year calculations.

After it was determined that the property would not have been impacted by the downstream CIP, staff from the Stewardship Grant reached out to the landowner. The county and RWMWD staff met with the landowner onsite and continued to follow the grant program guide, designing a shoreline restoration project. The proposed project includes rip rap, which is not normally an eligible grant expense. However, due to the existing conditions with limited access and a tight working area, it was determined that rip rap would be an acceptable expense.

The landowner received three bids and selected the lowest bidder. The lowest bid was \$26,782.17. The landowner applied for the Stewardship grant and has requested full funding of the proposed project.



The RWMWD Stewardship Grant program allows for special requests such as additional funding. When a request for additional funding is received, staff evaluate the proposed project and requested grant for several criteria, such as consistency with the goals of the grant program and watershed management plan, water quality improvement, and volume/runoff reduction. Additionally, increased funding amounts have been considered when a project combines planned phases, multiple property owners, or a large-scale project that captures runoff from multiple properties.

The proposed project will help stabilize a shoreline via riprap which minimizes further erosion but does not provide additional water quality benefit either through volume or pollutant/runoff reduction.

Staff (including Ramsey County SWCD staff) have reviewed the request for additional funding and recommend a maximum grant approval amount for \$15,000, consistent with existing program guidelines and past variances approved by the Board.

Existing conditions from 9/5/2024









Hello,

I'm in the process of applying for the Stewardship Grant through the Ramsey-Washington County Metro Watershed District to address my eroding shoreline. My residence is located across the street from Gervais Mill pond and is right next to the culvert that runs underneath Edgerton St. that empties into Gervais Mill Creek.

I have lost 3+ feet of my shoreline in some areas due to erosion from the water that empties into Gervais Mill Creek. Shoreline erosion has been a problem every year for me and continues to get worse as time goes on. Every year more water is diverted into Gervais Mill Creek as a result of structural changes and new construction upstream. The water flow/drainage has collapsed my concrete retaining wall that runs adjacent to the creek and I am also about to lose two trees due to the erosion. Furthermore, this has also impacted the structural integrity of my deck due to the softening ground.

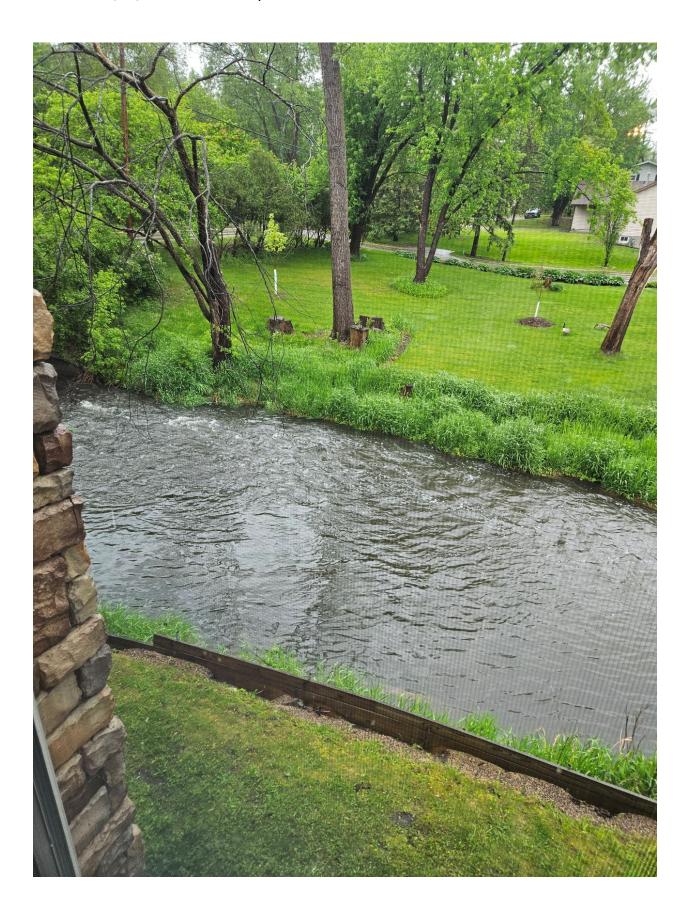
I am requesting that the full cost of this project is covered by the stewardship grant since the Gervais Mill Creek is a water drainage route the benefits many residences and business in the Little Canada/Ramsey County vicinity.

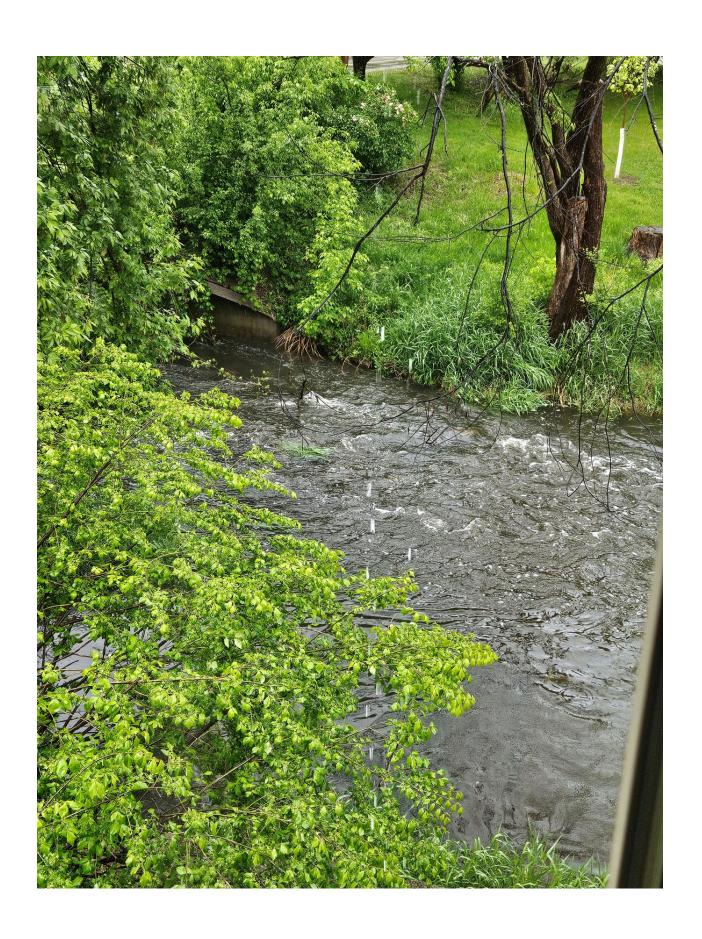
I reached out to about 6 of the contractors on the preferred contractor list for the watershed and only received a reply from 3 of them. After meeting with all 3 contractors in person and receiving bid estimates I have decided that NelCo Landscaping(Brian Nelson) out of Maplewood is the most appropriate contractor for the job.

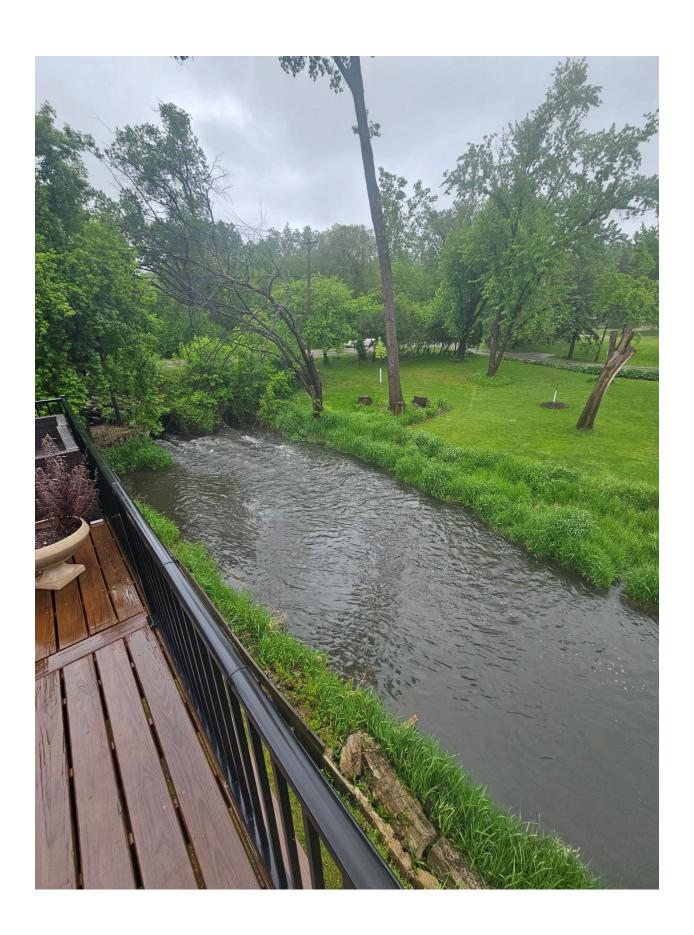
Brian and his crew are able to start on the project sometime in early July. Please let me know if any additional information is needed and thank you for your time and consideration.

Nate Preuss 2728 Edgerton St. Little Canada, MN 55117 651-274-8856

Photos from 5/20/2025 submitted by landowner:







Stewardship Grant Program Budget Status Update June 4, 2025

		Last Month	This Month	Last Month	This Month
Homeowner	Coverage	Number of Projects:	Number of Projects: 23	Funds Allocated	Funds Allocated
Habitat Restoration and rain garden w/o hard surface drainage	50% Cost Share \$15,000 Max	6	10	\$7,810	\$24,910***
Rain garden w/hard surface drainage, pervious pavement, green roof	75% Cost Share \$15,000 Max	5	10	\$53,550	\$83,800***
MN Water Steward Project	100% Cost Share \$15,000 Max	0	0	\$0	\$0
Shoreland Restoration	100% Cost Share \$15,000 Max	2	3	\$30,000	\$45,000*

		Last Month	This Month	Last Month	This Month
Commercial, School, Government, Church, Associations, etc.	Coverage	Number of Projects:	Number of Projects: 10	Funds Allocated	Funds Allocated
Habitat Restoration	50% Cost Share \$15,000 Max	3	3	\$29,050	\$29,050
Shoreland Restoration (below 100-year flood elevation w/actively eroding banks)	100% Cost Share \$100,000 Max	0	0	\$0	\$0
Priority Area Projects	100% Cost Share \$100,000 Max	2	3	\$142,300	\$242,300*
Non-Priority Area Projects	75% Cost Share \$50,000 Max	1	1	\$15,000	\$15,000
Public Art	50% Cost Share \$15,000 Max/Project	0	0	\$0	\$0
Aquatic Veg Harvest/LVMP Development	50% Cost Share \$15,000 Max	0	0	\$0	\$0
Enhanced Street Sweeping (\$250,000 Reserved)	Varies Cost Share \$100,000 Max	2	3	\$117,000	\$217,000*

Maintenance	50% Cost Share \$7,500 Max for 5 Years	74	74	\$65,415	\$65,415
Consultant Fees				\$19,068	\$21,212
Total Allocated				\$479,193	\$743,687

^{*}includes funds to be approved at current board meeting
** includes staff approvals since previous board meeting

2025 Stewardship Grant Program Budget		
	Last Month	This Month
Budget	\$1,250,000	\$1,250,000
Total Funds Allocated	\$479,193	\$743,687
Total Available Funds	\$770,807	\$506,314

Action Items

Request for Board Action

Board Meeting Date: June 4, 2025 Agenda Item No: 7A

Preparer: Tina Carstens, Administrator

Nicole Maras, Regulatory Program Manager

Item Description: Notice of the RWMWD MS4 Storm Water Pollution Prevention Program

(SWPPP) Document and receipt of public comments.

Background:

All regulated parties under the Minnesota Pollution Control Agency's MS4 (Municipal Separate Storm Sewer System) Program are required to provide at least one opportunity per year to collect input on their SWPPP (Stormwater Pollution Prevention Program) and associated MCM (Minimum Control Measure) activities with categories like: Public Education/Outreach, Public Participation/Involvement, Illicit Discharge Detection and Elimination, Construction Site Stormwater Runoff Control, Post-Construction Stormwater Management, Pollution Prevention/Good Housekeeping, Alum Plant data/reporting, and TMDL coordination.

Typically, District staff complete an annual report form for the general public and the Board to review, which is specific to the previous year's MS4 activities. This yearly report then gets submitted to the MPCA by June 30th of each calendar year. The MPCA has been developing a new reporting form/tool over the last few years, so there will be no annual report submission this year, as per the MPCA's direction. However, the District's SWPPP document is included in this month's board packet and has been posted to the District's website to meet the requirements for public participation and involvement.

At the June 4th Board meeting, any members of the public who wish to comment on the SWPPP may do so during this agenda item.

Applicable District Goal and Action Item:

Goal: Manage organization effectively – Operate in a manner that achieves the District's mission while adhering to its core principles.

Action Items: Follow all legal requirements applicable to watershed districts.

Staff Recommendation:

Receive public comments on the District's SWPPP.

Financial Implications:

None.

Board Action Requested:

Receive public comments on the District's SWPPP.



520 Lafayette Road North St. Paul, MN 55155-4194

MS4 Part 2 Permit Application

Authorization to discharge stormwater associated with small Municipal Separate Storm Sewer System (MS4)

Stormwater Pollution Prevention Program (SWPPP) Document

Doc Type: Permit Application

Instructions: Submitting this application confirms your intent to receive authorization to discharge stormwater under the National Pollutant Discharge Elimination System/State Disposal System (NPDES/SDS) MS4 General Permit (MNR040000). This application is due within 150 days from the issuance date of the MS4 General Permit (MNR040000). Throughout this application there are text fields with a typical maximum limit of four lines. If you need to provide information in a text field that exceeds the maximum limit, please submit an attachment(s) with supplemental information that is labeled with the corresponding field number (e.g., 9.J.).

Submittal: This application form and any associated documents (i.e., total maximum daily load (TMDL) application, any supplemental information) must be submitted electronically. To submit this form electronically, open the form using Internet Explorer Web browser or Adobe Acrobat Reader in order for the submit button to work properly. (If you do not have Acrobat Reader, you can download a free version at https://get.adobe.com/reader/.) Send the form to the Minnesota Pollution Control Agency (MPCA) by clicking the submit button at the end of the form (a "send email" window should open with the form attached), you can click on "Send" and then close the form. If you do not see a "send email", save the form to your computer and attach the form to an email message, using "MS4 Part 2 Permit Application" as the subject line to ms4permitprogram.pca@state.mn.us.

Review/Public Notice process: The MPCA will review the application for completeness. Incomplete applications will be returned. If the MPCA determines the application is complete, the MPCA will make a preliminary determination to issue permit coverage and place the application on public notice for 30 days. Once the applicant addresses any applicable comments or hearing requests, the MPCA will make a final determination to issue permit coverage to the applicant.

Please note, this application is intended to provide information about an applicant's existing SWPPP. An applicant that receives permit coverage is responsible for complying with all new applicable requirements set forth in the MS4 General Permit (MNR040000) by deadlines specified in Appendix B of the reissued permit.

Questions: If you have any questions, need additional information, contact MPCA staff. To find the staff assigned to your MS4, refer to the https://stormwater.pca.state.mn.us/index.php?title=MS4 staff contact information and staff assignments; or see the staff contact information on the MPCA's MS4 webpage at https://www.pca.state.mn.us/water/municipal-stormwater-ms4.

Note: All questions with an asterisk(*) are required fields, and the form will not submit without the fields completed.

General contact information

*MS4 permittee name: 1,A.	*County: 1.B.
· · · · · · · · · · · · · · · · · · ·	icipality, government agency or other entity)
*Mailing address: 1.C.	
*City: 1.D.	
MS4 General contact (with SWPPP imple	
*Last name: 2.A.	*First name: 2.B.
(Department head, MS4 coord	
*Title: 2.C.	
*Mailing address: 2.D.	
*City: _ 2.E.	
*Phone (including area code): 2.H.	*Email: 2.I.
Preparer information (complete if SWPP	P application is prepared by a party other than MS4 General contact)
Last name: 3.A.	First name: 3.B.
(Department head, MS4 coordi	inator, consultant, etc.)
Title: 3.C.	Organization: 3.D.
Mailing address: 3.E.	
Mailing address: 3.E. City: 3.F.	

4.	Certification (All fields are required)					
	*Yes - I certify under penalty of law that this docume supervision in accordance with a system design evaluated the information submitted.					
	I certify that based on my inquiry of the persor responsible for gathering the information, the i accurate, and complete.					
	I am aware that there are significant penalties criminal penalties.	for submitting false information,	including the possibility of civil and			
	I have read, understood, and accepted all terms and conditions of the NPDES/SDS MS4 General Permit.					
		This certification is required by Minn. Stat. §§ 7001.0070 and 7001.0540. The authorized person with overall, MS4 legal responsibility must certify the application (principal executive officer or a ranking elected official).				
	By typing/signing my name below , I certify the above that this information can be used for the purpose of pro		rect, to the best of my knowledge, and			
	*Signature: 4.A. Tina Carstens					
	(This document has been electronically signed	(k				
	*Title: 4.B.		*Date: 4.C.			
	*Mailing address: 4.D.					
	*City: _4.E.	*State: 4.F.	*Zip code: 4.G.			
	*Phone (including area code): 4.H.					
		cation will not be processed out certification.				
* 5.	5. Which type of MS4 do you represent? (Check one)					
	5.A. City					
	5.B. County					
	5.C. Corrections					
	5.D. ☐ Education 5.E. ☐ Healthcare					
	5.F. Township					
	5.G. Transportation (i.e., Minnesota Department of	Transportation [MnDOT])				
	5.H.					
* 6.	the General Permit?	another regulated small MS4(s) t	to satisfy one or more requirements of			
	Yes					
	☐ No (skip to Q8)					
7.	If yes in Q6, provide a description of the partnership	o(s): (Maximum 10 lines of text	t)			

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MCM 1: Public education and outreach

*8.	Permit item 16.3: Do you distribute educational materials or equivalent outreach focused on at least two (2) specifically selected stormwater-related issues of high priority? (Note: All or some of this item is a new permit requirement. Compliance with new requirements is required within 12 months after receiving permit coverage.) Yes No (skip to Q11)
9.	If yes in Q8, what are your high-priority topics? (Check all that apply) 9.A.
	Additional information for checked items (optional): 9.K.
10.	If yes in Q8, how do you educate the public about stormwater-related issues? (Check all that apply) 10.A. Brochure 10.B. Newsletter 10.C. Utility bill insert 10.D. Newspaper ad 10.E. Radio ad 10.F. Television ad 10.G. Cable access channel 10.H. Website 10.I. Stormwater-related event 10.J. Other (describe below): 10.K.
	Additional information for checked items (optional): 10.L.
* 11.	Permit item 16.4: At least once each calendar year, do you distribute educational outreach focused on illicit discharge recognition and reporting illicit discharges? (Note: All or some of this item is a new permit requirement. Compliance with new requirements is required within 12 months after receiving permit coverage.) Yes No (skip to Q13)
12.	If yes in Q11, how do you educate the public about illicit discharge recognition and reporting? (Check all that apply) 12.A. Brochure 12.B. Newsletter 12.C. Utility bill insert

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	12.D. Newspaper ad 12.E. Radio ad 12.F. Television ad 12.G. Cable access channel 12.H. Website 12.I. Stormwater-related event 12.J. Other (describe below): 12.K.
	Additional information for checked items (optional): 12.L.
If you	represent a city or township, please answer questions 13-16; if you do not represent a city or township, skip to question 1
13.	Permit item 16.5: At least once each calendar year, do you distribute educational materials or equivalent outreach to residents, businesses, commercial facilities, and institutions, focused on deicing salt use? (Note: All or some of this item is a new permit requirement. Compliance with new requirements is required within 12 months after receiving permit coverage.) ☐ Yes ☐ No (skip to Q15)
14.	If yes in Q13, what does your education or outreach cover? (Check all that apply) 14.A. The impacts of salt use on receiving waters 14.B. Methods to reduce salt use 14.C. Proper storage of salt or other deicing materials 14.D. Other (describe below): 14.E.
	Additional information for checked items (optional): 14.F.
15.	Permit item 16.6: At least once each calendar year, do you distribute educational materials or equivalent outreach focused on pet waste? (Note: All or some of this item is a new permit requirement. Compliance with new requirements is required within 12 months after receiving permit coverage.) Yes No (skip to Q17)
16.	If yes in Q15, what do your educational materials or equivalent outreach on pet waste include? (Check all that apply) 16.A.

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*17.	Permit item 16.7: Do you have an education and outreach plan? ☐ Yes ☐ No (skip to Q19)	
18.	f yes in Q17, which components does your education and outreach plan include? (Check all that apply) 18.A.	
	18.B. ☐ Name or position title of responsible person(s) for overall plan implementation.18.B.1. If checked, specify the name(s) or position title(s):	
	18.C. ☐ Specific activities and schedules to reach each target audience.18.C.1. If checked, provide any additional information (optional):	
	 18.D. A description of any coordination with and/or use of stormwater education and outreach programs implemented to other entities, if applicable. 18.D.1. If checked, provide any additional information (optional): 	эу
* 19.	Permit item 16.8: Do you document information relating to MCM 1? Yes No (skip to Q21)	
20.	f yes in Q19, what do you document? (Check all that apply) 20.A. A description of all specific stormwater-related issues you identified in item 16.3 20.B. All information required under your education and outreach plan in item 16.7 20.C. Activities held, including dates, to reach each target audience 20.D. Quantities and descriptions of educational materials distributed, including dates distributed 20.E. Estimated audience (e.g., number of participants, viewers, readers, listeners, etc.) for each completed education and outreach activity (Note: All or some of this item is a new permit requirement. Compliance with new requirements is required within 12 months after receiving permit coverage.)	

Additional information for checked items (optional):

16.F.

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*21.	Permit item 12.4: Who is responsible for implementation of this MCM? List name(s) or position title(s):
22.	Provide any additional information about your current education and outreach program that you would like to share (optional): (Maximum 10 lines of text) M 2: Public participation/involvement
*23.	Permit item 17.3: Do you provide a minimum of one (1) annual opportunity for the public to provide input on the adequacy of the SWPPP? Yes No (skip to Q25)
24.	If yes in Q23, describe the opportunity(ies):
*25.	Permit item 17.4: Do you provide access to the SWPPP Document, annual reports, and other documentation that supports or describes the SWPPP (e.g., regulatory mechanism(s), etc.) for public review, upon request? ☐ Yes ☐ No (skip to Q27)
26.	If yes in Q25, how can the public access this information? (Check all that apply) 26.A. Hardcopy upon request 26.B. Our website 26.C. Available at public event 26.D. Other (describe below): 26.E.
* 27.	Permit item 17.5: Do you consider oral and written input regarding the SWPPP submitted by the public? ☐ Yes ☐ No
*28.	Permit item 17.6: Each calendar year, do you provide a minimum of one (1) public involvement activity that includes a pollution prevention or water quality theme? (Note: All or some of this item is a new permit requirement. Compliance with new requirements is required within 12 months after receiving permit coverage.) Yes No (skip to Q30)
29.	If yes in Q28, what are the themes of your public involvement activity/activities? (Check all that apply) 29.A.

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	29.F. 29.G.	Volunteer water quality monitoring Adopt a storm drain program Household hazardous waste collection day Other (describe below): I.
	Ad 29	ditional information for checked items (optional): .J.
* 30.	Yes	em 17.7: Do you document information relating to MCM 2?
	•	ip to Q32)
31.		Q30, what do you document? (Check all that apply) All relevant written input submitted by persons regarding the SWPPP
		All of your responses to written input received regarding the SWPPP, including any modifications made to the SWPPP as a result of the written input received
	31.C. 🗌	Date(s), location(s), and estimated number of participants at events held for purposes of compliance with permit item 17.3
	31.D. 🗌	Notices provided to the public of any events scheduled to meet permit item 17.3, including any electronic correspondence (e.g., website, email distribution lists, notices, etc.)
	31.E.	Date(s), location(s), description of activities, and estimated number of participants at events held for the purpose of compliance with permit item 17.6 (Note: All or some of this item is a new permit requirement. Compliance with new requirements is required within 12 months after receiving permit coverage.)
* 32.	Permit it	tem 12.4: Who is responsible for implementation of this MCM? List name(s) or position title(s):
33.		any additional information about your current public participation/involvement program that you would like (optional): (Maximum 10 lines of text)
MCI	M 3: III	icit Discharge Detection and Elimination (IDDE)
*34.	☐ Yes	em 18.3: Do you maintain a storm sewer system map? ip to Q36)
25	•	
35.	35.A.	All pipes 12 inches or greater in diameter, including stormwater flow direction in those pipes Outfalls, including a unique identification (ID) number, and an associated geographic coordinate Structural stormwater BMPs that are part of your small MS4 All receiving waters

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*36.	Permit item 18.4: Do you have a regulatory mechanism(s) that prohibits non-stormwater discharges into your MS4? ☐ Yes ☐ No (skip to Q39)					
37.	If yes in Q36, what does your regulatory mechanism(s) consist of? (Check all that apply) 37.A.					
38.	If yes in Q36, provide a website address to the regulatory mechanism(s). If the regulatory mechanism is not available online, briefly describe how a copy of the regulatory mechanism can be obtained:					
	represent a city, township, or county please answer question 39. <i>If you do not</i> represent a city, township, or county skip to tion 42.					
39.	Permit item 18.5: Do you have a regulatory mechanism(s) that requires owners or custodians of pets to remove and properly dispose of feces from permittee owned land areas? (Note: All or some of this item is a new permit requirement. Compliance with new requirements is required within 12 months after receiving permit coverage.) ☐ Yes ☐ No					
If you	represent a city or township, please answer questions 40-41. If you do not represent a city or township, skip to question 42.					
40.	Permit item 18.6: Do you have a regulatory mechanism(s) that requires proper salt storage at commercial, institutional, and non-NPDES permitted industrial facilities? (Note: All or some of this item is a new permit requirement. Compliance with new requirements is required within 12 months after receiving permit coverage.) Yes No (Skip to Q42)					
41.	If yes in Q40, what does your regulatory mechanism(s) require? (Check all that apply) 41.A. Designated salt storage areas must be covered or indoors 41.B. Designated salt storage areas must be located on an impervious surface 41.C. Implementation of practices to reduce exposure when transferring material in designated salt storage areas (e.g., sweeping, diversions, and containment) 41.D. Other (describe below): 41.E.					
*42.	Permit item 18.7: Do you incorporate illicit discharge detection into all inspection and maintenance activities conducted in permit items 21.9, 21.10, and 21.11? ☐ Yes ☐ No (Skip to Q44)					
43.	If yes in Q42: where feasible, do you conduct illicit discharge inspections during dry-weather conditions (e.g., periods of 72 or more hours of no precipitation)? Yes No					

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*44.	Permit item 18.8: At least once each calendar year, do you train all field staff in illicit discharge recognition (including conditions which could cause illicit discharges), and reporting illicit discharges for further investigation? (Note: All or some of this item is a new permit requirement. Compliance with new requirements is required within 12 months after receiving permit coverage.) Yes No (Skip to Q47)
45.	If yes in Q44, which field staff do you train? (Check all that apply) 45.A. Police 45.B. Fire department 45.C. Public works 45.D. Parks staff 45.E. Other (describe below): 45.F.
46.	If yes in Q44, how do you train staff? (Check all that apply) 46.A. Videos 46.B. In-person presentations 46.C. Webinars 46.D. Training documents 46.E. Emails 46.F. Other (describe below): 46.G.
*47.	Permit item 18.9: Do you ensure that individuals receive training commensurate with their responsibilities as they relate to your IDDE program? Individuals includes, but is not limited to, individuals responsible for investigating, locating, eliminating illicit discharges, and/or enforcement. (Note: All or some of this item is a new permit requirement. Compliance with new requirements is required within 12 months after receiving permit coverage.) Yes No (Skip to Q50)
48.	If yes in Q47, how are these individuals trained? (Check all that apply) 48.A.
49.	If yes in Q47, do previously trained individuals attend a refresher-training every three (3) calendar years following the initial training? Yes No
*50.	Permit item 18.10: Do you maintain a written or mapped inventory of priority areas you identify as having a higher likelihood for illicit discharges? (Note: All or some of this item is a new permit requirement. Compliance with new requirements is required within 12 months after receiving permit coverage.) Yes No

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*51.	Permit item 18.11: To the extent allowable under state or local law, do you conduct additional illicit discharge inspections in priority areas? ☐ Yes ☐ No (Skip to Q53)				
52.	If yes in Q51, how often do you conduct illicit discharge inspections in priority areas:				
*53.	Permit item 18.12: Do you have written procedures for investigating, locating, and eliminating the source of illicit discharges? (Note: All or some of this item is a new permit requirement. Compliance with new requirements is required within 12 months after receiving permit coverage.) Yes No (Skip to Q55)				
54.	If yes in Q53, what do your procedures include? Check all that apply: (Note: All or some of this item is a new permit requirement. Compliance with new requirements is required within 12 months after receiving permit coverage.) 54.A. A timeframe in which you will investigate a reported illicit discharge 54.A.1. If checked, describe:				
	54.B. Use of visual inspections to detect and track the source of an illicit discharge 54.C. Tools to investigate and locate an illicit discharge If checked, what tools do you use? (Check all that apply) 54.C.1. Mobile cameras 54.C.2. Collecting and analyzing water samples 54.C.3. Smoke testing 54.C.4. Dye testing 54.C.5. Other (describe below): 54.C.6				
	54.D Cleanup methods to remove an illicit discharge or spill: 54.D.1. If checked, describe:				
	54.E Name or position title of responsible person(s) for investigating, locating, and eliminating an illicit discharge 54.E.1. If checked, specify the name(s) or position title(s):				
* 55.	Permit item 18.13: Do you have written procedures for responding to spills, including emergency response procedures to prevent spills from entering the MS4? ☐ Yes ☐ No (Skip to Q57)				
56.	If yes in Q55, do your written procedures include the immediate notification of the Minnesota Department of Public Safety Duty Officer at 1-800-422-0798 (toll free) or 651-649-5451 (Metro area), if the source of the illicit discharge is a spill or leak as defined in Minn. Stat. § 115.061? Yes No				

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* 57.	Permit item 18.14: Do you maintain written enforcement response procedures (ERPs) to compel compliance with your regulatory mechanism(s) in Section 18? (Note: All or some of this item is a new permit requirement. Compliance with new requirements is required within 12 months after receiving permit coverage.) Yes No (Skip to Q60)
58.	If yes in Q57, which of the following enforcement tools are available to you? (Check all that apply) 58.A.
59.	If yes in Q57, do your ERPs include the following? (Check all that apply) 59.A. Timeframes to complete corrective actions 59.B. Name or position title of responsible person(s) for conducting enforcement
* 60.	Permit item 18.15: Do you document information relating to MCM 3? ☐ Yes ☐ No (Skip to Q62)
61.	If yes in Q60, what do you document? (Check all that apply) 61.A. Date(s) and location(s) of IDDE inspections conducted in accordance with permit items 18.7 and 18.11 61.B. Reports of alleged illicit discharges received, including date(s) of the report(s), and any follow-up action(s) you take 61.C. Date(s) of discovery of all illicit discharges 61.D. Identification of outfalls, or other areas, where illicit discharges have been discovered 61.E. Sources (including a description and the responsible party) of illicit discharges (if known) 61.F. Action(s) you take, including date(s), to address discovered illicit discharges
*62.	Permit item 18.16: Do you document training relating to permit item 18.8 and 18.9? ☐ Yes ☐ No (Skip to Q64)
63.	If yes in Q62, what training information do you document? (Check all that apply) 63.A. General subject matter covered 63.B. Names and departments of individuals in attendance (Note: All or some of this item is a new permit requirement. Compliance with new requirements is required within 12 months after receiving permit coverage.) 63.C. Date of each event
* 64.	Permit item 18.17: Do you document enforcement conducted pursuant to the ERPs in item 18.14, including verbal warnings? ☐ Yes ☐ No (Skip to Q66)
65.	If yes in Q64, what do you document relating to ERPs for MCM 3? (Check all that apply) 65.A. Name of the person responsible for violating the terms and conditions of your regulatory mechanism(s) 65.B. Date(s) and location(s) of the observed violation(s) 65.C. Description of the violation(s) 65.D. Corrective action(s) (including completion schedule) that you issued 65.E. Referrals to other regulatory organizations (if any) 65.F. Date(s) violation(s) resolved
* 66.	Permit item 12.4: Who is responsible for implementation of this MCM? List name(s) or position title(s):

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67.	Provide any additional information about your current illicit discharge detection and elimination program that you would like to share (optional): (Maximum 10 lines of text)		
мс	M 4: Construction site stormwater runoff control		
* 68.	Permit item 19.3: Do you have a regulatory mechanism(s) that establishes requirements for erosion, sediment, and waste controls? ☐ Yes ☐ No (skip to Q73)		
69.	If yes in Q68, what does your regulatory mechanism(s) consist of? (Check all that apply) 69.A.		
70.	If yes in Q68, provide a website address to the regulatory mechanism(s). If the regulatory mechanism is not available online, briefly describe how a copy of the regulatory mechanism can be obtained:		
71.	If yes in Q68, is your regulatory mechanism(s) at least as stringent as the MPCA's most current Construction Stormwater General Permit (MNR100001) for erosion, sediment, and waste controls by incorporating the Construction Stormwater General Permit by reference, or by incorporating all items in Q72? Yes (skip to Q73) No		
72.	If no in Q71, which of the following requirements are incorporated into your regulatory mechanism(s)? (Check all that apply) 72.A. Erosion prevention practices: 72.A.1. Before work begins, owner(s)/operator(s) must delineate the location of areas not to be disturbed. 72.A.2. Owner(s)/operator(s) must minimize the need for disturbance of portions of the project with steep slopes. When steep slopes must be disturbed, owner(s)/operator(s) must use techniques such as phasing and stabilization practices designed for steep slopes (e.g., slope draining and terracing). 72.A.3. Owner(s)/operator(s) must stabilize all exposed soil areas, including stockpiles. Stabilization must be initiated immediately to limit soil erosion when construction activity has permanently or temporarily ceased on any portion of the site and will not resume for a period exceeding 14 calendar days. Stabilization must be completed no later than 14 calendar days after the construction activity has ceased. Stabilization is not required on constructed base components of roads, parking lots and similar surfaces. Stabilization is not required on temporary stockpiles without significant silt, clay or organic components (e.g., clean aggregate stockpiles, demolition concrete stockpiles, sand stockpiles) but owner(s)/operator(s) must provide sediment controls at the base of the stockpile.		

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	72.A.4.	water restrictions" during specified fish spawning time frames, owner(s)/operator(s) must complete stabilization of all exposed soil areas within 200 feet of the water's edge, and that drain to these waters, within 24 hours during the restriction period.
	72.A.5.	Owner(s)/operator(s) must stabilize the normal wetted perimeter of the last 200 linear feet of temporary or permanent drainage ditches or swales that drain water from the site within 24 hours after connecting to a surface water or property edge. Owner(s)/operator(s) must complete stabilization of the remaining portions of temporary or permanent ditches or swales within 14 calendar days after connecting to a surface water or property edge and construction in that portion of the ditch temporarily or permanently ceases.
	72.A.6.	☐ Temporary or permanent ditches or swales that are being used as a sediment containment system during construction (with properly designed rock-ditch checks, bio rolls, silt dikes, etc.) do not need to be stabilized. Owner(s)/operator(s) must stabilize these areas within 24 hours after their use as a sediment containment system ceases.
	72.A.7.	Owner(s)/operator(s) must not use mulch, hydromulch, tackifier, polyacrylamide or similar erosion prevention practices within any portion of the normal wetted perimeter of a temporary or permanent drainage ditch or swale section with a continuous slope of greater than two percent.
	72.A.8.	Owner(s)/operator(s) must provide temporary or permanent energy dissipation at all pipe outlets within 24 hours after connection to a surface water or permanent stormwater treatment system.
	72.A.9.	Owner(s)/operator(s) must not disturb more land (i.e., phasing) than can be effectively inspected and maintained.
72.B.	Sedimer	nt control practices:
	72.B.1.	Owner(s)/operator(s) must establish sediment control BMPs on all down gradient perimeters of the site and downgradient areas of the site that drain to any surface water, including curb and gutter systems. Owner(s)/operator(s) must locate sediment control practices upgradient of any buffer zones. Owner(s)/operator(s) must install sediment control practices before any upgradient land-disturbing activities begin and must keep the sediment control practices in place until they establish permanent cover.
	72.B.2.	☐ If the downgradient sediment controls are overloaded, based on frequent failure or excessive maintenance requirements, owner(s)/operator(s) must install additional upgradient sediment control practices or redundant BMPs to eliminate the overloading and amend the site plans to identify these additional practices.
	72.B.3.	☐ Temporary or permanent drainage ditches and sediment basins designed as part of a sediment containment system (e.g., ditches with rock-check dams) require sediment control practices only as appropriate for site conditions.
	72.B.4.	A floating silt curtain placed in the water is not a sediment control BMP to satisfy perimeter control requirements in this part except when working on a shoreline or below the waterline. Immediately after the short term construction activity (e.g. installation of rip rap along the shoreline) in that area is complete, owner(s)/operator(s) must install an upland perimeter control practice if exposed soils still drain to a surface water.
	72.B.5.	Owner(s)/operator(s) must re-install all sediment control practices adjusted or removed to accommodate short-term activities such as clearing or grubbing, or passage of vehicles, immediately after the short-term activity is completed. Owner(s)/operator(s) must re-install sediment control practices before the next precipitation event even if the short-term activity is not complete.
	72.B.6.	Owner(s)/operator(s) must protect all storm drain inlets using appropriate BMPs during construction until they establish permanent cover on all areas with potential for discharging to the inlet.
	72.B.7.	Owner(s)/operator(s) may remove inlet protection for a particular inlet if a specific safety concern (e.g., street flooding/freezing) is identified by owner(s)/operator(s) or the jurisdictional authority (e.g., city/county/township/MnDOT engineer). Owner(s)/operator(s) must document the need for removal in the site plans.
	72.B.8.	Owner(s)/operator(s) must provide silt fence or other effective sediment controls at the base of stockpiles on the downgradient perimeter.
	72.B.9.	Owner(s)/operator(s) must locate stockpiles outside of natural buffers or surface waters, including stormwater conveyances such as curb and gutter systems unless there is a bypass in place for the stormwater.
	72.B.10.	Owner(s)/operator(s) must install a vehicle tracking BMP to minimize the track out of sediment from the construction site or onto paved roads within the site.
	72.B.11.	Owner(s)/operator(s) must use street sweeping if vehicle tracking BMPs are not adequate to prevent sediment tracking onto the street.
	72.B.12.	In any areas of the site where final vegetative stabilization will occur, owner(s)/operator(s) must restrict vehicle and equipment use to minimize soil compaction.
	72.B.13.	Owner(s)/operator(s) must preserve topsoil on the site, unless infeasible.
	72.B.14.	Owner(s)/operator(s) must direct discharges from BMPs to vegetated areas unless infeasible.
	72.B.15.	Owner(s)/operator(s) must preserve a 50 foot natural buffer or, if a buffer is infeasible on the site, provide redundant (double) perimeter sediment controls when a surface water is located within 50 feet of the project's earth disturbances and stormwater flows to the surface water. Owner(s)/operator(s) must install

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		perimeter sediment controls at least 5 feet apart unless limited by lack of available space. Natural buffers are not required adjacent to road ditches, judicial ditches, county ditches, stormwater conveyance channes storm drain inlets, and sediment basins. If preserving the buffer is infeasible, owner(s)/operator(s) must document the reasons in the site plans. Sheet piling is a redundant perimeter control if installed in a mann that retains all stormwater.	
	72.B.16.	Owner(s)/operator(s) must use polymers, flocculants, or other sedimentation treatment chemicals in accordance with accepted engineering practices, dosing specifications and sediment removal design specifications provided by the manufacturer or supplier. Owner(s)/operator(s) must use conventional erosion and sediment controls prior to chemical addition and must direct treated stormwater to a sedimen control system for filtration or settlement of the floc prior to discharge.	t
72.C.		and basin draining:	
	72.C.1.	Owner(s)/operator(s) must discharge turbid or sediment-laden waters related to dewatering or basin drainir (e.g., pumped discharges, trench/ditch cuts for drainage) to a temporary or permanent sediment basin on the project site unless infeasible. Owner(s)/operator(s) may dewater to surface waters if they visually check to ensure adequate treatment has been obtained and nuisance conditions (see Minn. R. 7050.0210, subp. 2) will not result from the discharge. If owner(s)/operator(s) cannot discharge the water to a sedimentation base prior to entering a surface water, owner(s)/operator(s) must treat it with appropriate BMPs such that the discharge does not adversely affect the surface water or downstream properties.	ne
	72.C.2.	If owner(s)/operator(s) must discharge water that contains oil or grease, owner(s)/operator(s) must use ar oil-water separator or suitable filtration device (e.g. cartridge filters, absorbents pads) prior to discharge.	I
	72.C.3.	Owner(s)/operator(s) must discharge all water from dewatering or basin-draining activities in a manner that does not cause erosion or scour in the immediate vicinity of discharge points or inundation of wetlands in the immediate vicinity of discharge points that causes significant adverse impact to the wetland.	at
	72.C.4.	If owner(s)/operator(s) use filters with backwash water, they must haul the backwash water away for disposal, return the backwash water to the beginning of the treatment process, or incorporate the backwash water into the site in a manner that does not cause erosion.	
72.D.	Inspecti	and maintenance:	
	72.D.1.	Owner(s)/operator(s) must ensure that a trained person will inspect the entire construction site at least one every seven (7) days during active construction and within 24 hours after a rainfall event greater than one half inch in 24 hours.	
	72.D.2.	Owner(s)/operator(s) must inspect and maintain all permanent stormwater treatment BMPs.	
	72.D.3.	Owner(s)/operator(s) must inspect all erosion prevention and sediment control BMPs and Pollution Prevention Management Measures to ensure integrity and effectiveness. Owner(s)/operator(s) must repair, replace, or supplement all nonfunctional BMPs with functional BMPs by the end of the next business day after discovery unless another time frame is specified below. Owner(s)/operator(s) may take additional time if field conditions prevent access to the area.	
	72.D.4.	During each inspection, owner(s)/operator(s) must inspect surface waters, including drainage ditches and conveyance systems but not curb and gutter systems, for evidence of erosion and sediment deposition. Owner(s)/operator(s) must remove all deltas and sediment deposited in surface waters, including drainage ways, catch basins, and other drainage systems and restabilize the areas where sediment removal results in exposed soil. Owner(s)/operator(s) must complete removal and stabilizatio within seven (7) calendar days of discovery unless precluded by legal, regulatory, or physical access constraints. Owner(s)/operator(s) must use all reasonable efforts to obtain access. If precluded, removal and stabilization must take place within seven (7) calendar days of obtaining access. Owner(s)/operator(s) are responsible for contacting all local, regional, state and federal authorities and receiving any applicable permits, prior to conducting any work in surface waters.	
	72.D.5.	Owner(s)/operator(s) must inspect construction site vehicle exit locations, streets and curb and gutter systems within and adjacent to the project for sedimentation from erosion or tracked sediment from vehicles. Owner(s)/operator(s) must remove sediment from all paved surfaces within one (1) calendar day of discovery or, if applicable, within a shorter time to avoid a safety hazard to users of public streets.	/
	72.D.6.	Owner(s)/operator(s) must repair, replace, or supplement all perimeter control devices when they become nonfunctional or the sediment reaches one-half of the height of the device.	!
	72.D.7.	Owner(s)/operator(s) must drain temporary and permanent sedimentation basins and remove the sediment when the depth of sediment collected in the basin reaches one-half of the storage volume.	t
	72.D.8.	Owner(s)/operator(s) must ensure that at least one individual present on the site (or available to the project site in three (3) calendar days) is trained in the job duties of overseeing the implementation of, revising and/or amending the site plans and performing inspections for the project.	t
	72.D.9.	 Owner(s)/operator(s) may adjust the inspection schedule as follows: a. inspections of areas with permanent cover can be reduced to once per month, even if construction activity continues on other portions of the site; or b. where construction sites have permanent cover on all exposed soil areas and no construction activity occurring anywhere on the site, inspections can be reduced to once per month and, after 12 months, may be suspended completely until construction activity resumes. The MPCA may require inspections to resume if conditions warrant; or 	

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		C.	where construction activity has been suspended due to frozen ground conditions, inspections may be suspended. Inspections must resume within 24 hours of runoff occurring, or upon resuming construction, whichever comes first.
	72.D.10		ner(s)/operator(s) must record all inspections and maintenance activities within 24 hours of being nducted and these records must be retained with the site plans. These records must include:
		a.	date and time of inspections; and
		b.	name of person(s) conducting inspections; and
		C.	accurate findings of inspections, including the specific location where corrective actions are needed; and
		d.	corrective actions taken (including dates, times, and party completing maintenance activities); and
		e.	date of all rainfall events greater than one-half inch in 24 hours, and the amount of rainfall for each event. Owner(s)/operator(s) must obtain rainfall amounts by either a properly maintained rain gauge installed onsite, a weather station that is within one (1) mile of owner(s)/operator(s)r location, or a weather reporting system that provides site specific rainfall data from radar summaries; and
		f.	if owner(s)/operator(s) observe a discharge during the inspection, they must record and should photograph and describe the location of the discharge (i.e., color, odor, settled or suspended solids, oil sheen, and other obvious indicators of pollutants); and
		g.	any amendments to the site plans proposed as a result of the inspection must be documented within seven (7) calendar days.
72.E.	Inspecti	on and	maintenance:
	72.E.1.	she sto	vner(s)/operator(s) must place building products and landscape materials under cover (e.g., plastic eeting or temporary roofs) or protect them by similarly effective means designed to minimize contact with rmwater. Owner(s)/operator(s) are not required to cover or protect products which are either not a curce of contamination to stormwater or are designed to be exposed to stormwater.
	72.E.2.	she	vner(s)/operator(s) must place pesticides, fertilizers and treatment chemicals under cover (e.g., plastic eeting or temporary roofs) or protect them by similarly effective means designed to minimize contact h stormwater.
	72.E.3.	hyd cor dis	vner(s)/operator(s) must store hazardous materials and toxic waste, (including oil, diesel fuel, gasoline, draulic fluids, paint solvents, petroleum-based products, wood preservatives, additives, curing mpounds, and acids) in sealed containers to prevent spills, leaks or other discharge. Storage and posal of hazardous waste materials must be in compliance with Minn. R. ch. 7045 including condary containment as applicable.
	72.E.4.	□ Ow Mir	ner(s)/operator(s) must properly store, collect, and dispose of solid waste in compliance with nn. R. ch. 7035.
	72.E.5.		ner(s)/operator(s) must position portable toilets so they are secure and will not tip or be knocked over. ner(s)/operator(s) must dispose of sanitary waste in accordance with Minn. R. ch. 7041.
	72.E.6.	inc par all rec	uner(s)/operator(s) must take reasonable steps to prevent the discharge of spilled or leaked chemicals, luding fuel, from any area where chemicals or fuel will be loaded or unloaded including the use of drip and sor absorbents unless infeasible. Owner(s)/operator(s) must ensure adequate supplies are available at times to clean up discharged materials and that an appropriate disposal method is available for covered spilled materials. Owner(s)/operator(s) must report and clean up spills immediately as required Minn. Stat. § 115.061, using dry clean up measures where possible.
	72.E.7.	Ow effe	ner(s)/operator(s) must limit vehicle exterior washing and equipment to a defined area of the site. ner(s)/operator(s) must contain runoff from the washing area in a sediment basin or other similarly ective controls and must dispose of waste from the washing activity properly. Owner(s)/operator(s) must operly use and store soaps, detergents, or solvents.
	72.E.8.	wa cor sol run wa	ner(s)/operator(s) must provide effective containment for all liquid and solid wastes generated by shout operations (e.g., concrete, stucco, paint, form release oils, curing compounds and other instruction materials) related to the construction activity. Owner(s)/operator(s) must prevent liquid and id washout wastes from contacting the ground and must design the containment so it does not result in noff from the washout operations or areas. Owner(s)/operator(s) must properly dispose of liquid and solid stes in compliance with Minn. R. ch. 7035. Owner(s)/operator(s) must install a sign indicating the location the washout facility.
72.F.	=	-	liment basins:
	72.F.1.	pro or e bas	here ten (10) or more acres of disturbed soil drain to a common location, owner(s)/operator(s) must ovide a temporary sediment basin to provide treatment of the runoff before it leaves the construction site enters surface waters. Owner(s)/operator(s) may convert a temporary sediment basin to a permanent sin after construction is complete. The temporary basin is no longer required when permanent cover has duced the acreage of disturbed soil to less than ten (10) acres draining to a common location.
	72.F.2.	24-	e temporary basin must provide live storage for a calculated volume of runoff from a two (2)-year, -hour storm from each acre drained to the basin or 1,800 cubic feet of live storage per acre drained, ichever is greater.

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	12.F.3.	sediment basin must provide 3,600 cubic feet of live storage per acre of the basin's drainage area.
	72.F.4.	Owner(s)/operator(s) must design basin outlets to prevent short-circuiting and the discharge of floating debris.
	72.F.5.	Owner(s)/operator(s) must design the outlet structure to withdraw water from the surface to minimize the discharge of pollutants. Owner(s)/operator(s) may temporarily suspend the use of a surface withdrawal mechanism during frozen conditions. The basin must include a stabilized emergency overflow to prevent failure of pond integrity.
	72.F.6.	Owner(s)/operator(s) must provide energy dissipation for the basin outlet within 24 hours after connection to a surface water.
	72.F.7.	Owner(s)/operator(s) must locate temporary basins outside of surface waters and any required buffer zones.
	72.F.8.	Owner(s)/operator(s) must construct temporary basins prior to disturbing (10) or more acres of soil draining to a common location.
	72.F.9.	Where a temporary sediment basin meeting the requirements of this part is infeasible, owner(s)/operator(s) must install effective sediment controls such as smaller sediment basins and/or sediment traps, silt fences, vegetative buffer strips or any appropriate combination of measures as dictated by individual site conditions. In determining whether installing a sediment basin is infeasible, owner(s)/operator(s) must consider public safety and may consider factors such as site soils, slope, and available area on-site. Owner(s)/operator(s) must document this determination of infeasibility in the site plans.
72.G.	Termina	tion conditions:
	72.G.1.	Owner(s)/operator(s) must complete all construction activity and must install permanent cover over all areas. Vegetative cover must consist of a uniform perennial vegetation with a density of 70 percent of its expected final growth. Vegetation is not required where the function of a specific area dictates no vegetation, such as impervious surfaces or the base of a sand filter.
	72.G.2.	Owner(s)/operator(s) must clean the permanent stormwater treatment system of any accumulated sediment and must ensure the system meets all applicable requirements and is operating as designed.
	72.F.3.	Owner(s)/operator(s) must remove all sediment from conveyance systems.
		Owner(s)/operator(s) must remove all temporary synthetic erosion prevention and sediment control BMPs. Owner(s)/operator(s) may leave BMPs designed to decompose on-site in place.
	72.G.5.	For residential construction only, permit coverage terminates on individual lots if the structure(s) are finished and temporary erosion prevention and downgradient perimeter control is complete and the residence sells to the homeowner.
		For construction projects on agricultural land (e.g., pipelines across cropland), owner(s)/operator(s) must return the disturbed land to its preconstruction agricultural use.
72.H.		able, additional requirements for discharges to special and impaired waters:
	72.H.1.	Owner(s)/operator(s) must immediately initiate stabilization of exposed soil areas, and complete the stabilization within seven (7) calendar days after the construction activity in that portion of the site temporarily or permanently ceases.
	72.H.2.	Owner(s)/operator(s) must provide a temporary sediment basin for common drainage locations that serve an area with five (5) or more acres disturbed at one time.
	72.H.3.	Owner(s)/operator(s) must include an undisturbed buffer zone of not less than 100 linear feet from a special water (not including tributaries) and must maintain this buffer zone at all times, both during construction and as a permanent feature post construction, except where a water crossing or other encroachment is necessary to complete the project. Owner(s)/operator(s) must fully document the circumstance and reasons the buffer encroachment is necessary in the site plans and include restoration activities. Owner(s)/operator(s) must minimize all potential water quality, scenic and other environmental impacts of these exceptions by the use of additional or redundant (double) BMPs and must document this in the site plans for the project.
	72.H.4.	Owner(s)/operator(s) must conduct routine site inspections once every three (3) days for projects that discharge to prohibited waters.
site pl	ans that n rior to the s	.5: Does your regulatory mechanism(s) require that owners and operators of construction activity developments be submitted to you for review and confirmation that regulatory mechanism(s) requirements have been start of construction activity?
regula	tory mech rements i	.6: Do you have written procedures for site plan reviews to ensure compliance with requirements of the nanism(s)? (Note: All or some of this item is a new permit requirement. Compliance with new s required within 12 months after receiving permit coverage.)
	(Skip to 0	Q76)

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*****73.

*****74.

75.	 If yes in Q74, do your procedures include the following? (Check all that apply) 75.A. Written notification to owners and operators of the need to apply for and obtain coverage under the CSW Permit. 75.B. Use of a written checklist, consistent with the requirements of the regulatory mechanism(s), to document the adequacy of each site plan required.
76.	Permit item 19.7: Do you have written procedures for conducting site inspections to determine compliance with your regulatory mechanism(s)? ☐ Yes ☐ No
77.	Permit item 19.8: Do you maintain written procedures for identifying high-priority and low-priority sites for inspection? (Note: All or some of this item is a new permit requirement. Compliance with new requirements is required within 12 months after receiving permit coverage.) Yes
78.	☐ No (Skip to Q79) If yes in Q77, do your procedures include the following? (Check all that apply) 78.A. ☐ A detailed explanation describing how sites will be categorized as either high-priority or low-priority. If checked, how do you prioritize sites for inspection? (Check all that apply) 78.A.1. ☐ Site topography 78.A.2. ☐ Soil characteristics 78.A.3. ☐ Types of receiving water(s) 78.A.4. ☐ Stage of construction 78.A.5. ☐ Compliance history 78.A.6. ☐ Weather conditions 78.A.7. ☐ Citizen complaints 78.A.8. ☐ Project size 78.A.9. ☐ Other (describe below): 78.A.10.
	78.B. A frequency at which you will conduct inspections for high-priority sites. If checked, how often will you inspect high-priority sites? (Check only one) 78.B.1. More than once every seven (7) days 78.B.2. Once every seven (7) days 78.B.3. Once every 14 days 78.B.4. Once every 21 days 78.B.5. Once every 30 days 78.B.6. Other (describe below): 78.B.7.
	78.C. A frequency at which you will conduct inspections for low-priority sites. If checked, how often will you inspect low-priority sites? (Check only one) 78.C.1. More than once every seven (7) days 78.C.2. Once every seven (7) days 78.C.3. Once every 14 days 78.C.4. Once every 21 days 78.C.5. Once every 30 days 78.C.6. Other (describe below): 78.C.7.

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	78.D. The name(s) of individual(s) or position title(s) responsible for conducting site inspections:
* 79.	Permit item 19.9: Do you use a written checklist to document each site inspection when determining compliance with your regulatory mechanism(s)? (Note: All or some of this item is a new permit requirement. Compliance with new requirements is required within 12 months after receiving permit coverage.) Yes No (Skip to Q82)
80.	If yes in Q79, are the following items incorporated in your written checklist? (Check all that apply) 80.A.
81.	Provide any additional information on your process to document site inspections (optional):
*82.	Permit item 19.10: Do you have written procedures for receipt and consideration of reports of noncompliance or other stormwater related information on construction activity submitted to you by the public? Yes No (Skip to Q84)
83.	If yes in Q82, please provide your procedures or a description of your procedures (e.g., how the public may submit concerns, typical timeframe for you to investigate reports):
*84.	Permit item 19.11: Do individuals receive training commensurate with their responsibilities as they relate to your Construction Site Stormwater Runoff Control program? Individuals includes, but is not limited to, individuals responsible for conducting site plan reviews, site inspections, and/or enforcement. ☐ Yes ☐ No (Skip to Q87)

e in Q84, do previously trained individuals attend a refresher-training every three (3) calendar years following initial training? (Note: All or some of this item is a new permit requirement. Compliance with new requirements required within 12 months after receiving permit coverage.)			
Yes			
□ No			
If yes in Q84, what training do your staff who perform site inspections receive? (Check all that apply) 86.A.			
Permit item 19.12: Do you maintain written ERPs to compel compliance with your regulatory mechanism(s) in Section 19? (Note: All or some of this item is a new permit requirement. Compliance with new requirements is required within 12 months after receiving permit coverage.) Yes No (Skip to Q89)			
If yes in Q87, which enforcement tools are included in your ERPs? (Check all that apply) 88.A.			
Please specify name or position title of responsible person(s) for conducting enforcement:			
Permit item 19.13: Do you document each site plan review you conduct? ☐ Yes ☐ No (Skip to Q92)			
If yes in Q90, what do you document in your site plan review process? (Check all that apply) 91.A. Project name 91.B. Location 91.C. Total acreage to be disturbed 91.D. Owner and operator of the proposed construction activity 91.E. Proof of notification to obtain coverage under the CSW Permit or proof of coverage under the CSW Permit (Note: All or some of this item is a new permit requirement. Compliance with new requirements is required within 12 months after receiving permit coverage.) 91.F. Any stormwater related comments and supporting completed checklist, to determine project approval or denial (Note: All or some of this item is a new permit requirement. Compliance with new requirements is required within 12 months after receiving permit coverage.)			

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	Permit item 19.14: Do you document training related to permit item 19.11?			
	☐ Yes ☐ No (Skip to Q94)			
93.	If yes in Q92, what do you document? (Check all that apply)			
	93.A. General subject matter covered			
	93.B. Name(s) and departments of individuals in attendance (Note: All or some of this item is a new permit requirement. Compliance with new requirements is required within 12 months after receiving permit coverage.)			
	93.C. Date of each event			
*94.	Permit item 19.15: Do you document enforcement conducted pursuant to your ERPs in item 19.12, including verbal warnings? ☐ Yes ☐ No (Skip to Q96)			
95.	If yes in Q94, what do you document relating to ERPs for MCM 4? (Check all that apply)			
93.	95.A. Name of the person responsible for violating the terms and conditions of your regulatory mechanism(s) 95.B. Date(s) and location(s) of the observed violation(s) 95.C. Description of the violation(s)			
	95.D. Corrective action(s) (including completion schedule) that you issued			
	95.E. Referrals to other regulatory organizations (if any)			
	95.F.			
* 96.	Permit item 12.4: Who is responsible for implementation of this MCM? List name(s) or position title(s):			
	Provide any additional information about your current construction site stormwater runoff control program that you would like to share (optional): (Maximum 10 lines of text)			
***	M 5: Post-construction stormwater management			
*98.	M 5: Post-construction stormwater management Permit item 20.3: Do you have a post-construction stormwater management regulatory mechanism(s)? Yes No (skip to Q102)			

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If yes in Capply)	98, which of the following requirements are incorporated into your regulatory mechanism? (Check all that
	Permit item 20.4: You must require owners of construction activity to submit site plans with post-construction stormwater management BMPs designed with accepted engineering practices to you for review and confirmation that regulatory mechanism(s) requirements have been met, prior to start of construction activity.
101.B. 🗌	Permit item 20.5: You must require owners of construction activity to treat the water quality volume on any project where the sum of the new impervious surface and the fully reconstructed impervious surface equals one or more acres. (Note: All or some of this item is a new permit requirement. Compliance with new requirements is required within 12 months after receiving permit coverage.)
101.C. \square	Permit item 20.6: For construction activity (excluding linear projects), the water quality volume must be calculated as one (1) inch times the sum of the new and the fully reconstructed impervious surface. (Note: All or some of this item is a new permit requirement. Compliance with new requirements is required within 12 months after receiving permit coverage.)
101.D. □	Permit item 20.7: For linear projects, the water quality volume must be calculated as the larger of one (1) inch times the new impervious surface or one-half (0.5) inch times the sum of the new and the fully reconstructed impervious surface. Where the entire water quality volume cannot be treated within the existing right-of-way, a reasonable attempt to obtain additional right-of-way, easement, or other permission to treat the stormwater during the project planning process must be made. Volume reduction practices must be considered first, as described in item 20.8. Volume reduction practices are not required if the practices cannot be provided cost effectively. If additional right-of-way, easements, or other permission cannot be obtained, owners of construction activity must maximize the treatment of the water quality volume prior to discharge from the MS4. (Note: All or some of this item is a new permit requirement. Compliance with new requirements is required within 12 months after receiving permit coverage.)
101.E. □	Permit item 20.8: Volume reduction practices (e.g., infiltration or other) to retain the water quality volume on-site must be considered first when designing the permanent stormwater treatment system. This permit does not consider wet sedimentation basins and filtration systems to be volume reduction practices. If this permit prohibits infiltration as described in item 20.9, other volume reduction practices, a wet sedimentation basin, or filtration basin may be considered.
101.F. 🗌	Permit item 20.9: Infiltration systems must be prohibited when the system would be constructed in areas:
	a. That receive discharges from vehicle fueling and maintenance areas, regardless of the amount of new and fully reconstructed impervious surface. (Note: All or some of this item is a new permit requirement. Compliance with new requirements is required within 12 months after receiving permit coverage.)
	b. Where high levels of contaminants in soil or groundwater may be mobilized by the infiltrating stormwater. To make this determination, the owners and/or operators of construction activity must complete the MPCA's site screening assessment checklist, which is available in the Minnesota Stormwater Manual, or conduct their own assessment. The assessment must be retained with the site plans. (Note: All or some of this item is a new permit requirement. Compliance with new requirements is required within 12 months after receiving permit coverage.)
	c. Where soil infiltration rates are more than 8.3 inches per hour unless soils are amended to slow the infiltration rate below 8.3 inches per hour. (Note: All or some of this item is a new permit requirement. Compliance
	 with new requirements is required within 12 months after receiving permit coverage.) d. With less than three (3) feet of separation distance from the bottom of the infiltration system to the elevation of the seasonally saturated soils or the top of bedrock.
	e. Of predominately Hydrologic Soil Group D (clay) soils. (Note: All or some of this item is a new permit requirement. Compliance with new requirements is required within 12 months after receiving permit coverage.)
	f. In an Emergency Response Area (ERA) within a Drinking Water Supply Management Area (DWSMA) as defined in Minn. R. 4720.5100, Subp. 13, classified as high or very high vulnerability as defined by the Minnesota Department of Health. (Note: All or some of this item is a new permit requirement. Compliance with new requirements is required within 12 months after receiving permit coverage.)
	g. In an ERA within a DWSMA classified as moderate vulnerability unless you perform or approve a higher level of engineering review sufficient to provide a functioning treatment system and to prevent adverse impacts to groundwater. (Note: All or some of this item is a new permit requirement. Compliance with new requirements is required within 12 months after receiving permit coverage.)
	h. Outside of an ERA within a DWSMA classified as high or very high vulnerability unless you perform or approve a higher level of engineering review sufficient to provide a functioning treatment system and to prevent adverse impacts to groundwater. (Note: All or some of this item is a new permit requirement. Compliance with new requirements is required within 12 months after receiving permit coverage.)
	 i. Within 1,000 feet up-gradient or 100 feet down gradient of active karst features. (Note: All or some of this item is a new permit requirement. Compliance with new requirements is required within 12 months after receiving permit coverage.)

100. If yes in Q98, provide a website address to the regulatory mechanism(s). If the regulatory mechanism is not available online, briefly describe how a copy of the regulatory mechanism can be obtained:

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		j. That receive stormwater runoff from these types of entities regulated under NPDES for industrial stormwater: automobile salvage yards; scrap recycling and waste recycling facilities; hazardous waste treatment, storage, or disposal facilities; or air transportation facilities that conduct deicing activities.		
	s i a	Permit item 20.10: For non-linear projects, where the water quality volume cannot cost effectively be treated on the site of the original construction activity, you must identify, or may require owners of the construction activity to identify, locations where off-site treatment projects can be completed. If the entire water quality volume is not addressed on the site of the original construction activity, the remaining water quality volume must be addressed through off-site treatment and, at a minimum, ensure the requirements of permit items 20.11 through 20.14 are met.		
		Permit item 20.11: You must ensure off-site treatment project areas are selected in the following order of preference:		
		 Locations that yield benefits to the same receiving water that receives runoff from the original construction activity 		
	C	 b. Locations within the same DNR catchment area as the original construction activity c. Locations in the next adjacent DNR catchment area up-stream d. Locations anywhere within your jurisdiction 		
	r F	Permit item 20.12: Off-site treatment projects must involve the creation of new structural stormwater BMPs or the retrofit of existing structural stormwater BMPs, or the use of a properly designed regional structural stormwater BMPs. Routine maintenance of structural stormwater BMPs already required by this permit cannot be used to meet this requirement.		
	(Permit item 20.13: Off-site treatment projects must be completed no later than 24 months after the start of the original construction activity. If you determine that more time is needed to complete the treatment project, you must provide the reason(s) and schedule(s) for completing the project in the annual report.		
	á	Permit item 20.14: If you receive payment from the owner of a construction activity for off-site treatment, you must apply any such payment received to a public stormwater project, and all projects must comply with permit items 20.11 through 20.13.		
	s i a	Permit item 20.15: You must include the establishment of legal mechanism(s) between you and owners of structural stormwater BMPs not owned or operated by you, that have been constructed to meet the requirements in Section 20. The legal mechanism(s) must include provisions that, at a minimum: a. Allow you to conduct inspections of structural stormwater BMPs not owned or operated by you, perform necessary maintenance, and assess costs for those structural stormwater BMPs when you determine the owner of that structural stormwater BMP has not ensured proper function. b. Are designed to preserve your right to ensure maintenance responsibility, for structural stormwater BMPs not owned or operated by you, when those responsibilities are legally transferred to another party. c. Are designed to protect/preserve structural stormwater BMPs. If structural stormwater BMPs change, causing decreased effectiveness, new, repaired, or improved structural stormwater BMPs must be implemented to provide equivalent treatment to the original BMP.		
* 102.	Permit item 20.16: Do you maintain a written or mapped inventory of structural stormwater BMPs that you do not own or operate that meet all of the following criteria? (Note: All or some of this item is a new permit requirement. Compliance with new requirements is required within 12 months after receiving permit coverage.)			
	long-te	ructural stormwater BMP includes an executed legal mechanism(s) between you and owners responsible for the rm maintenance, as required in item 20.15; and ructural stormwater BMP was implemented on or after August 1, 2013.		
	☐ Yes			
* 103.	Permit item 20.17: Do you to have written procedures for site plan reviews to ensure compliance with requirements of you regulatory mechanism(s)? Yes No			
* 104.	Permit item 20.18: Do individuals receive training commensurate with their responsibilities as they relate to your Post-Construction Stormwater Management program? Individuals include, but is not limited to, individuals responsible for conducting site plan reviews and/or enforcement. Yes			
	□ No (Skip to Q106)			
	If yes in Q104, do previously trained individuals attend a refresher training every three (3) calendar years following the initial training? (Note: All or some of this item is a new permit requirement. Compliance with new requirements is required within 12 months after receiving permit coverage.)			
	☐ Yes ☐ No			
* 106.	Section 20?	a 20.19: Do you maintain written ERPs to compel compliance with your regulatory mechanism(s) required in (Note: All or some of this item is a new permit requirement. Compliance with new requirements is ithin 12 months after receiving permit coverage.)		
	☐ No (Skip to Q108)			

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107.	If yes in Q106, what enforcement tools are included in your ERPs? (Check all that apply)
	107.A. Verbal warning
	107.B. Notice of violation
	107.C. Administrative order
	107.D. ☐ Fine
	107.E. Criminal action
	107.F. Civil penalty
	107.G. Other (describe below):
	107.H.
	107.11.
*400	
"108.	Please specify name or position title of responsible person(s) for conducting enforcement:
*109.	Permit item 20.20: Do you document each site plan review you conduct?
	☐ Yes
	☐ No (Skip to Q111)
110.	If yes in Q109, what do you document in your site plan review process? (Check all that apply)
	110.A. Supporting documentation used to determine compliance, including any calculations for the permanent stormwater treatment system.
	110.B. The water quality volume that will be treated through volume reduction practices compared to the total water quality volume required to be treated. (<i>Note: All or some of this item is a new permit requirement.</i>
	Compliance with new requirements is required within 12 months after receiving permit coverage.)
	110.C. Documentation associated with off-site treatment projects you authorize, including rationale to support the location of permanent stormwater treatment projects in accordance with items 20.10 and 20.11. (Note: All or some of this item is a new permit requirement. Compliance with new requirements is required within 12 months after receiving permit coverage.)
	110.D. Payments received and used in accordance with permit item 20.14.
	110.E. All legal mechanisms drafted in accordance with permit item 20.15, including date(s) of the agreement(s) and
	name(s) of all responsible parties involved.
* 111.	Permit item 20.21: Do you document training related to your Post-Construction Stormwater Management program?
	☐ Yes
	☐ No (Skip to Q113)
112.	If yes in Q111, what are you documenting? (Check all that apply)
	112.A. General subject matter covered
	112.B. Names and departments of individuals in attendance (Note: All or some of this item is a new permit
	requirement. Compliance with new requirements is required within 12 months after receiving permit
	coverage.)
	112.C. The date of each event
* 113.	Permit item 20.22: Do you document enforcement conducted pursuant to your ERPs in item 20.19, including verbal
	warnings?
	☐ Yes
	☐ No (Skip to Q115)
114.	If yes in Q113, what do you document relating to ERPs for MCM 5? (Check all that apply)
	114.A. The name of the person responsible for violating the terms and conditions of your regulatory mechanism(s)
	114.B. The date(s) and location(s) of the observed violation(s)
	114.C. A description of the violation(s)
	114.D.
	114.E. Referrals to other regulatory organizations
	114.F. The date(s) violation(s) are resolved

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*115.	Permit item 12.4: Who is responsible for implementation of this MCM? List name(s) or position title(s):
116.	Provide any additional information about your current post-construction stormwater management program that you would like to share (optional): (Maximum 10 lines of text)
MCI	M 6: Pollution prevention/Good housekeeping for municipal operations
*117.	Permit item 21.3: Do you maintain a written or mapped inventory of your owned/operated facilities that contribute pollutants to stormwater discharges? ☐ Yes ☐ No (skip to Q119)
118.	If yes in Q117, which of the following facilities do you own and/or operate? (Check all that apply) 118.A.
* 119.	Permit item 21.4: Do you implement BMPs to prevent or reduce pollutants in stormwater discharges from municipal operations? ☐ Yes ☐ No (Skip to Q121)

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120.	municipal operations (e.g., waste disposal, management of stockpiles, road maintenance):
* 121.	Permit item 21.5: Do you implement BMPs at your owned/operated salt storage areas? (Note: All or some of this item is a new permit requirement. Compliance with new requirements is required within 12 months after receiving permit coverage.) Yes No (Skip to Q123)
122.	If yes in Q121, what BMPs do you have in place at salt storage areas? (Check all that apply) 122.A. Salt is covered or stored indoors 122.B. Salt stored on an impervious surface 122.C. Implementation of practices to reduce exposure when transferring material from salt storage areas 122.D. Other (describe below): 122.E.
*123.	Permit item 21.6: Do you implement a written snow and ice management policy for individuals that perform winter maintenance activities for you? (Note: All or some of this item is a new permit requirement. Compliance with new requirements is required within 12 months after receiving permit coverage.) Yes No (Skip to Q125)
124.	If yes in Q123, what practices and procedures for snow and ice control operations are included? (Check all that apply) 124.A. Plowing or other snow removal practices 124.B. Sand use 124.C. Application of deicing compounds 124.D. Other (describe below): 124.E.
*125.	Permit item 21.7: Each calendar year, do all individuals that perform winter maintenance activities for you receive training? (Note: All or some of this item is a new permit requirement. Compliance with new requirements is required within 12 months after receiving permit coverage.) Yes No (Skip to Q127)
126.	If yes in Q125, what does the winter maintenance training include? (Check all that apply) 126.A. The importance of protecting water quality 126.B. BMPs to minimize the use of deicers 126.C. Tools and resources to assist in winter maintenance (e.g., deicing application rate guidelines, calibration charts, Smart Salting Assessment Tool) 126.D. Other (describe below): 126.E.
*127.	Permit item 21.8: Do you maintain written procedures for determining TSS and total phosphorus (TP) treatment effectiveness of all owned/operated ponds constructed and used for the collection and treatment of stormwater? ☐ Yes ☐ No

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128.	schedule) each calendar year to determine structural integrity, proper function, and maintenance needs (excluding structural stormwater BMPs where the inspection frequency has been adjusted)? Yes No
*129.	Do you have a different inspection frequency (i.e., more or less than each calendar year) for any of your structural stormwater BMPs? Yes No (Skip to Q131)
130.	If yes in Q129, what led to your adjusted inspection frequency? (Check all that apply) 130.A. Complaints received or patterns of maintenance indicated a greater frequency was necessary. 130.B. Determined maintenance or sediment removal was not required after completion of the first two calendar year inspections. 130.C. Other (describe below): 130.D.
*131.	Permit item 21.10: Do you inspect all ponds and outfalls (excluding underground outfalls) each permit term in order to determine structural integrity, proper function, and maintenance needs? ☐ Yes ☐ No (Skip to Q133)
132.	If yes in Q131, describe the frequency of inspections:
*133.	Permit item 21.12: Do you implement a stormwater management training program commensurate with individual's responsibilities as they relate to your SWPPP, including reporting and assessment activities? Training materials can be from the U.S. Environmental Protection Agency (EPA), state and regional agencies, or other organizations as appropriate to meet this requirement. ☐ Yes ☐ No (Skip to Q135)
134.	If yes in Q133, what does your stormwater management training program include? (Check all that apply) 134.A. The importance of protecting water quality. 134.B. Cover the requirements of the permit relevant to the responsibilities of the individual. 134.C. A schedule that establishes initial training for individuals, including new and/or seasonal employees, and recurring training intervals to address changes in procedures, practices, techniques, or requirements. 134.D. Other (describe below): 134.E.
	134.F. Additional information for checked items (optional):
* 135.	Permit item 21.13: Do you document information associated with the operations and maintenance program? ☐ Yes ☐ No (Skip to Q137)
136.	 If yes in Q135, what are you documenting? (Check all that apply) 136.A. Date(s) and description of findings, including whether or not an illicit discharge is detected, for all inspections conducted in accordance with items 21.9 and 21.10. 136.B. Any adjustments to inspection frequency as authorized in item 21.9. 136.C. Date(s) and a description of maintenance conducted as a result of inspection findings, including whether or not an illicit discharge is detected.

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	136.D. ☐ Schedule(s) for maintenance of structural stormwater BMPs and outfalls when necessary maintenance cannot be completed within one year of discovery (Note: All or some of this item is a new permit requirement. Compliance with new requirements is required within 12 months after receiving permit coverage.)
	136.E. Stormwater management training events, including general subject matter covered, names and departments of individuals in attendance, and date of each event.
*137.	Permit item 21.14: Do you document pond sediment excavation and removal activities? ☐ Yes ☐ No (Skip to Q139)
138.	If yes in Q137, what pond sediment excavation and removal activity information is documented? (Check all that apply)
	 138.A. A unique ID number and geographic coordinate of each stormwater pond from which sediment is removed. 138.B. The volume (e.g., cubic yards) of sediment removed from each stormwater pond. 138.C. Results from any testing of sediment from each removal activity. 138.D. Location(s) of final disposal of sediment from each stormwater pond. 138.E. Additional information for checked items (optional):
139.	Permit item 12.4: Who is responsible for implementation of this MCM? List name(s) or position title(s).
140.	Provide any additional information about your current pollution prevention/good housekeeping for municipal operations program that you would like to share (optional): (Maximum 10 lines of text)
	harges to Impaired Waters with an EPA-Approved TMDL that Includes an Applicable Waste Load cation (WLA)
To de	etermine if you have an applicable WLA(s), please reference the MPCA's MS4 Permit TMDL Application Form webpage at ://stormwater.pca.state.mn.us/index.php?title=Guidance_for_completing_the_MS4_Permit_TMDL_Application_Form.
•	Permit item 22.3: Do you have an applicable WLA where a reduction in pollutant loading is required for bacteria?
	☐ Yes ☐ No (Skip to Q146)
142.	☐ No (Skip to Q146)
142. 143.	 No (Skip to Q146) If yes in Q141, do you maintain a written or mapped inventory of potential areas and sources of bacteria (e.g., dense populations of waterfowl or other bird, dog parks)? (Note: All or some of this item is a new permit requirement. Compliance with new requirements is required within 12 months after receiving permit coverage.) ☐ Yes ☐ No (Skip to Q145)

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	 144.D. Removal of organic matter via street sweeping. 144.E. Implementation of infiltration structural stormwater BMPs. 144.F. Management of areas that attract dense populations of waterfowl (e.g., riparian plantings). 144.G. Other (describe below): 144.H.
145.	Permit item 12.9: If yes in Q141, who is or will be responsible for implementation of this required component (i.e., inventory, plan, and BMP implementation)? List name(s) or position title(s):
* 146.	Permit item 22.5: Do you have an applicable WLA where a reduction in pollutant loading is required for chloride? ☐ Yes ☐ No (Skip to Q151)
147.	If yes in Q146, do you document the amount of deicer applied each winter maintenance season to all your owned/operated surfaces? (Note: All or some of this item is a new permit requirement. Compliance with new requirements is required within 12 months after receiving permit coverage.) Yes No
148.	If yes in Q146, each calendar year do you conduct an assessment of your winter maintenance operations to reduce the amount of deicing salt applied to your owned/operated surfaces and determine current and future opportunities to improve BMPs? You may use the MPCA's Smart Salting Assessment Tool or other available resources and methods to complete this assessment. The assessment must be documented. (Note: All or some of this item is a new permit requirement. Compliance with new requirements is required within 12 months after receiving permit coverage.) Yes No (Skip to Q150)
149.	If yes in Q148, what does your winter maintenance operations assessment include? (Check all that apply) 149.A.
	149.H. Additional information for checked items (optional):
150.	Permit item 12.9: If yes in Q146, who is or will be responsible for implementation of this required component (i.e., documenting deicer applied and winter maintenance operations assessment)? List name(s) or position title(s):
* 151.	Permit item 22.7: Do you have an applicable WLA where a reduction in pollutant loading is required for temperature? ☐ Yes ☐ No (Skip to Q155)

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152.	during the permit term? (Note: All or some of this item is a new permit requirement. Compliance with new requirements is required within 12 months after receiving permit coverage.) Yes
153.	If yes in Q152, what activities does the plan include? (Check all that apply) 153.A. ☐ Implementation of infiltration BMPs such as bioinfiltration practices 153.B. ☐ Disconnection and/or reduction of impervious surfaces 153.C. ☐ Retrofitting existing structural stormwater BMPs 153.D. ☐ Improvement of riparian vegetation 153.E. ☐ Other (describe below): 153.F.
	153.G. Provide any additional information about your written plan (optional):
154.	Permit item 12.9: If yes in Q151, who is or will be responsible for implementation of this required component? List name(s) or position title(s):
* 155.	Permit item 12.8: Do you have an applicable WLA(s) for oxygen demand, nitrate, TSS, or TP? ☐ Yes - If yes, you must complete the corresponding tabs in the MS4 Permit TMDL Application (available on the MPCA's website at https://stormwater.pca.state.mn.us/index.php?title=Guidance for completing the MS4 Permit TMDL Application Form) and submit it with this application. ☐ No
Alum	or Ferric Chloride Phosphorus Treatment Systems
* 156.	Permit Section 23: Do you own and/or operate an Alum or Ferric Chloride Phosphorus Treatment System within your MS4? ☐ Yes - If yes, complete questions 157-173 as directed. ☐ No (Skip to Q174)
157.	Provide the geographic coordinates of the alum or ferric chloride phosphorus treatment system, in decimal degrees. (Approximate centroid of treatment system within five-foot accuracy): 157.A. Latitude:
158.	Who is responsible for the operation of the treatment system? List name(s) or position title(s):
159.A	Provide the date the system first became operational (mm/dd/yyyy):

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For question 159.B-G, provide information for calendar year 2020.

159.B.1. January: 159.B.2. February: 159.B.3. March:	
159.B.3. March:	
159.B.3. March:	
159.B.4. April:	
159.B.5. May:	
159.B.6. June:	
159.B.7. July: 159.B.8. August:	
159.B.8. August: 159.B.9. September:	
159.B.10. October:	
159.B.11. November:	
159.B.12. December:	
159.C. What chemical(s) was used for treatment:	
159.C.1.	
159.C.2. Ferric Chloride	
159.D. Provide the number of gallons of water treated:	
159.E. Provide the number of gallons of alum or ferric chloride treatment used:	
159.F. Provide the calculated pounds of phosphorous removed:	
159.G. Describe any performance issue(s) and the corrective action(s), including the date(s) when corrective action(s) were taken:	Đ
160. Permit item 23.3: Which of the following requirements are you meeting? (Check all that apply)	not
 Permit item 23.3: Which of the following requirements are you meeting? (Check all that apply) 160.A. Your treatment system is for the treatment of phosphorus in stormwater. Non-stormwater discharges mus be treated by this system. 	not
 160.A. Your treatment system is for the treatment of phosphorus in stormwater. Non-stormwater discharges mus be treated by this system. 160.B. Your treatment system is contained within the conveyances and structural stormwater BMPs of the MS4. utilized conveyances and structural stormwater BMPs do not include any receiving waters. 	The
 160.A. Your treatment system is for the treatment of phosphorus in stormwater. Non-stormwater discharges mus be treated by this system. 160.B. Your treatment system is contained within the conveyances and structural stormwater BMPs of the MS4. utilized conveyances and structural stormwater BMPs do not include any receiving waters. 160.C. Phosphorus treatment systems utilizing chemicals other than alum or ferric chloride receive written approfrom the MPCA. 	The
 160.A. Your treatment system is for the treatment of phosphorus in stormwater. Non-stormwater discharges mus be treated by this system. 160.B. Your treatment system is contained within the conveyances and structural stormwater BMPs of the MS4. utilized conveyances and structural stormwater BMPs do not include any receiving waters. 160.C. Phosphorus treatment systems utilizing chemicals other than alum or ferric chloride receive written approfrom the MPCA. 160.D. In-lake phosphorus treatment activities are not authorized. 	The ⁄al
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 160.A. Your treatment system is for the treatment of phosphorus in stormwater. Non-stormwater discharges must be treated by this system. 160.B. Your treatment system is contained within the conveyances and structural stormwater BMPs of the MS4. utilized conveyances and structural stormwater BMPs do not include any receiving waters. 160.C. Phosphorus treatment systems utilizing chemicals other than alum or ferric chloride receive written approximate the MPCA. 160.D. In-lake phosphorus treatment activities are not authorized. Permit item 23.3: Which of the following design parameters does your treatment system include? (Check all that a long.) The treatment system is constructed in a manner that diverts the stormwater flow to be treated from the manner conveyance system. 	The /al apply)
 160.A. Your treatment system is for the treatment of phosphorus in stormwater. Non-stormwater discharges must be treated by this system. 160.B. Your treatment system is contained within the conveyances and structural stormwater BMPs of the MS4. utilized conveyances and structural stormwater BMPs do not include any receiving waters. 160.C. Phosphorus treatment systems utilizing chemicals other than alum or ferric chloride receive written approfrom the MPCA. 160.D. In-lake phosphorus treatment activities are not authorized. Permit item 23.3: Which of the following design parameters does your treatment system include? (Check all that a 161.A. The treatment system is constructed in a manner that diverts the stormwater flow to be treated from the manner conveyance system. 161.B. A high flow bypass is part of the inlet design. 	The /al apply)
 160.A. Your treatment system is for the treatment of phosphorus in stormwater. Non-stormwater discharges must be treated by this system. 160.B. Your treatment system is contained within the conveyances and structural stormwater BMPs of the MS4. utilized conveyances and structural stormwater BMPs do not include any receiving waters. 160.C. Phosphorus treatment systems utilizing chemicals other than alum or ferric chloride receive written approximate the MPCA. 160.D. In-lake phosphorus treatment activities are not authorized. Permit item 23.3: Which of the following design parameters does your treatment system include? (Check all that a long.) The treatment system is constructed in a manner that diverts the stormwater flow to be treated from the manner conveyance system. 	The /al apply)
 160.A. Your treatment system is for the treatment of phosphorus in stormwater. Non-stormwater discharges must be treated by this system. 160.B. Your treatment system is contained within the conveyances and structural stormwater BMPs of the MS4. utilized conveyances and structural stormwater BMPs do not include any receiving waters. 160.C. Phosphorus treatment systems utilizing chemicals other than alum or ferric chloride receive written approximate from the MPCA. 160.D. In-lake phosphorus treatment activities are not authorized. Permit item 23.3: Which of the following design parameters does your treatment system include? (Check all that a left.A. The treatment system is constructed in a manner that diverts the stormwater flow to be treated from the manner conveyance system. 161.B. A high flow bypass is part of the inlet design. 161.C. A flocculent storage/settling area is incorporated into the design, and adequate maintenance access is 	The ⁄al apply) ain

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164.	Permit item 23.5: Following visual monitoring which occurs within 24 hours after a rainfall event, do you conduct the next visual monitoring of your system seven (7) days after that rainfall event? ☐ Yes
165.	 No Permit item 23.6: Does your treatment system utilize three (3) benchmark monitoring stations? Table 1 in Appendix A in the permit must be used for the parameters, units of measure, and frequency of measurement for each station. Yes
	□ No
166.	Permit item 23.7: Do you collect grab samples or flow-weighted 24-hour composite samples at your treatment system? ☐ Yes ☐ No
167.	Permit item 23.8: Are your treatment system samples, excluding potential of hydrogen (pH) samples, analyzed by a laboratory certified by the Minnesota Department of Health and/or the MPCA? ☐ Yes ☐ N
	□ No
168.	Which of the following do your sample tests include? (Check all that apply)
	168.A. ☐ Sample preservation and test procedures for the analysis of pollutants that conform to 40 CFR Part 136 and Minn. R. 7041.3200.
	168.B. Detection limits for dissolved phosphorus, dissolved aluminum, and dissolved iron that are a minimum of 6 micrograms per liter (μg/L), 10 μg/L, and 20 μg/L, respectively.
	168.C pH that is measured within 15 minutes of sample collection using calibrated and maintained equipment.
169.	Permit item 23.9: In the following situation(s) do you perform corrective action(s) and immediately notify the Minnesota Department of Public Safety Duty Officer? (Check all that apply)
	169.A. The pH of the discharged water is not within the range of 6.0 and 9.0.
	169.B. Indications of toxicity or measurements exceeding water quality standards which could endanger human health, public drinking water supplies, or the environment.
	169.C. A spill or discharge or alteration resulting in water pollution, as defined in Minn. Stat. § 115.01, subd. 13, of alum or ferric chloride.
170.	Permit item 23.13: Do you conduct site-specific jar testing using typical and representative water samples in accordance with the most current approved version of ASTM D2035? (Note: All or some of this item is a new permit requirement. Compliance with new requirements is required within 12 months after receiving permit coverage.) Yes No
171.	Permit item 23.14: Do you have baseline concentrations of the following parameters in the influent and receiving waters at your treatment system location? (Check all that apply)
	171.A. Aluminum or iron
	171.B. Phosphorus
172.	Permit item 23.15: Do you have the following system parameters and how each was determined at your treatment system location? (Check all that apply)
	172.A. Flocculant settling velocity
	172.B. Minimum required retention time
	172.C. Rate of diversion of stormwater into the system
	172.D. The flow rate from the discharge of the outlet structure
	172.E. Range of expected dosing rates
173.	Permit item 23.16: Have you developed the following site-specific procedures? (Check all that apply)
	173.A. Procedures for the installation, operation and maintenance of all pumps, generators, control systems, and other equipment.
	173.B.
	173.C. Procedures for cleaning up and/or containing a spill of each chemical stored on site.
	Complete last page and submit using Adobe Acrobat Reader.

(If you do not have Acrobat Reader, you can download a free version at https://get.adobe.com/reader/.)

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651-296-6300

Additi	onal information			
174.				
	Complete last page and submit using Adobe Acrobat Reader.			
	(If you do not have Acrobat Reader, you can download a free version at https://get.adobe.com/reader/ .)			

Request for Board Action

Board Meeting Date: June 4, 2025 Agenda Item No: <u>7B</u>

Preparer: Tina Carstens, Administrator

Item Description: Kohlman Creek Flood Risk Reduction Accept Plans & Solicit Bids

Background:

See the attached memo for more information on the Kohlman Creek Flood Risk Reduction project.

This project was planned through our Flood Risk Reduction program and will be funded by this project's dedicated fund. The engineer's opinion of the probable project construction cost is \$308,000. Following approval at this meeting, the bidding process will be followed by the selection of a contractor, which will be presented to the board for approval in July.

Applicable District Goal and Action Item:

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

Action Item: Cooperate with appropriate stakeholders to identify, assess, and address potential flooding problems in the District.

Staff Recommendation:

Staff recommends approval of the preliminary design, estimated costs, and proposed project schedule, and direct staff to finalize the design and bidding documents and solicit bid proposals.

Financial Implications:

This project will be funded from the district's Flood Risk Reduction Fund, where there are sufficient funds available.

Board Action Requested:

Approve the preliminary design, estimated costs, and proposed project schedule, and direct staff to finalize the design and bidding documents and solicit bid proposals.



Technical Memorandum

To: RWMWD Board of Managers

From: Tyler Olsen & Brandon Barnes – Barr Engineering Co. (Barr)

Subject: Kohlman Creek Flood Risk Reduction Project – Request to Bid Project

Date: May 28, 2025 **Project:** 23/62-1517.00

c: Paige Ahlborg (RWMWD), Tina Carstens (RWMWD)

1 Introduction

This memorandum summarizes the flood-risk reduction 95%-level design for two sites along Kohlman Creek. The first site is located near PCU Pond and 13th Avenue in North St. Paul, MN. The second site is located south of County Road C, near the new box culvert crossing installed in 2024, located in Maplewood, MN. This project was identified in the Kohlman Creek Flood-Risk Reduction Feasibility Report, which was presented to the Managers in February 2024.

2 95% Design Description and Submittals to Board

Construction documents including bidding documents, technical specifications, and construction drawings have been prepared for this project. The design includes constructing flood protection berms, installing new storm sewer to reroute flows, and site restoration. When constructed, the project will result in 2 structures being removed from the modeled 100-year flood zone in the wetland upstream (south) of County Road C, and 7 structures being removed from the modeled 100-year flood zone north of PCU Pond across 13th Avenue. This project is an important step towards reducing flood risk along Kohlman Creek and implementation of the recommended projects described in the Kohlman Creek Flood-Risk Reduction Feasibility Study (2024).

Barr and RWMWD staff are working through final coordination with project stakeholders – the City of Maplewood, the City of North St. Paul, and Ramsey County Parks and Recreation – to obtain approvals and authorizations. Comments received from project stakeholders have been incorporated into the final construction documents.

3 Engineer's Opinion of Probable Cost

The engineer's opinion of probable cost is shown in Table 1. The opinion of probable cost provided is made on the basis of Barr's experience and qualifications and represents our best judgement as experienced and qualified professionals familiar with the project. Because we have no control over the cost of labor, materials, equipment or services furnished by others, or over the contractor's methods of determining prices, or over competitive bidding or market conditions, Barr cannot and does not guarantee that proposals, bids, or actual costs will not vary from the opinion of probable cost presented.

To: RWMWD Board of Managers

From: Tyler Olsen & Brandon Barnes – Barr Engineering Co. (Barr)
Subject: Kohlman Creek Flood Risk Reduction Project – Request to Bid Project

Date: May 28, 2025

Page: 2

Table 1: Engineer's Opinion of Probable Cost

Item		Cost
Engineer's Opinion of Probable Construction Cost		\$308,000
Estimated Accuracy Range	Low (-10%)	\$277,200
	High (+20%)	\$369,600

Notes:

- 1 Quantities based on Design Work Completed (95%).
- 2 Unit Prices Based on Information Available at This Time.
- This design level (Class 1, 70-100% design completion per ASTM E 2516-11) cost estimate is based on 95% designs, alignments, quantities and unit prices. Costs will change with further design. Time value-of-money escalation costs are not included. A construction schedule is not available at this time. The estimated accuracy range for the Total Project Cost as the project is defined is -10% to +20%. The accuracy range is based on professional judgement considering the level of design completed, the complexity of the project and the uncertainties in the project as scoped. Operation and Maintenance costs are not included.
- 4 Estimate assumes that projects will not be located on contaminated soil.
- 5 The estimated costs do not include maintenance, monitoring or additional tasks following construction.

4 Board Request

It is requested that the RWMWD Board of Managers approve the preliminary design, specifications, estimate of costs and proposed schedule (Section 5) and direct Barr to finalize the design, prepare the bidding documents, and advertise the project for bids from contractors to construct the project.

5 Schedule

Pending Board approval, the project documents (e.g., plans, specifications) will be posted for bid on June 9, 2025. Bid opening will occur 3 weeks after posting of the documents. After bidding, if a responsible low bidder is identified, Barr will return to the Board with the recommended low bidder in July 2025. Construction will commence following the approval of the low bidder, with a target completion date of October 2025.

Attachments

- Issued for Approval Drawings for the Kohlman Creek Flood-Risk Reduction Project
- Table of Contents for the Project Specifications

CONTRACT DOCUMENTS

KOHLMAN CREEK FLOOD-RISK REDUCTION **RAMSEY-WASHINGTON METRO WATERSHED DISTRICT**

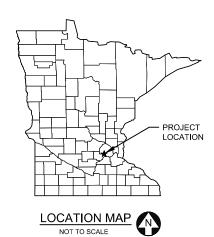
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	er Subcontractor Verification	00 45 14-1	
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Notice to Procee	ed	00 55 00-1	
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Division 1 - G	eneral Requirements		
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	Unit Price Measurement and Payment	01 22 00-1	
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	Site Clearing and Demolition	31 10 00-1	
31 23 00	Excavation and Fill	31 23 00-1	
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32 93 10	Site Restoration	32 93 00-1	
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Drawings			

See Drawing G-01 for the Construction Drawing index

HORIZONTAL: MINNESOTA DOT: RAMSEY COUNTY, US FOOT VERTICAL: NAVD 88

KOHLMAN CREEK FLOOD-RISK REDUCTION RAMSEY-WASHINGTON METRO WATERSHED DISTRICT LITTLE CANADA, MINNESOTA



ABBREVIATIONS AND SYMBOLS

APPROX APRROXIMATE AMERICAN SOCIETY OF CIVIL ENGINEERS AMERICAN SOCIETY FOR TESTING AND MATERIALS ASTM CONC CORRUGATED POLYETHYLENE PIPE CPEP DIP DUCTILE IRON PIPE EL ELEVATION F.F.E. FINISHED FLOOR ELEVATION HIGH ACCURACY REFERENCE NETOWRK ID INSIDE DIAMETER MAX MAXIMUM NORTH AMERICAN VERTICAL DATUM NAVD NGVD NATIONAL GEODETIC VERTICAL DATUM NUMBER NO. ОС ON CENTER PVC POLYVINYL CHLORIDE ROW RIGHT-OF-WAY TBD TO BE DETERMINED TYP TYPICAL

DIAMETER





- 1. COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES, PERMITS, AND REGULATIONS.
- 2. VERIEY ALL QUANTITIES, GRADES, AND DIMENSIONS.
- TOPOGRAPHIC INFORMATION BASED ON SITE SURVEY CONDUCTED BY BARR ENGINEERING, NOVEMBER 2024. SURVEY PERFORMED WITH VERTICAL DATUM OF NAVD88 (FEET).
- 4. FIELD-LOCATE ALL SITE UTILITIES (PRIVATE AND PUBLIC) PRIOR TO STARTING THE WORK. ALL UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE, ANY UTILITIES DAMAGED BY CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF UTILITY OWNER AT CONTRACTOR'S COST.

DRAWING INDEX

DWG NO.	-	DESCRIPTION
GENERAL	_	
G-01		TITLE SHEET, INDEX, AND VICINITY MAP
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G-03		STORMWATER POLLUTION PREVENTION PLAN (SWPPP)
G-04		STORMWATER POLLUTION PREVENTION PLAN (SWPPP)
G-05		SITE 1 (CR-C) EROSION AND SEDIMENT CONTROL PLAN
G-06		SITE 2 (13TH AVE) EROSION AND SEDIMENT CONTROL PLAN
G-07		EROSION AND SEDIMENT CONTROL DETAILS
CIVIL		
C-01		SITE 1 (CR-C) EXISTING CONDITIONS AND REMOVALS PLAN
C-02		SITE 1 (CR-C) GRADING AND DRAINAGE PLAN
C-03		SITE 1 (CR-C) GRADING PROFILE AND SECTIONS
C-04		SITE 1 (CR-C) GRADING PROFILE AND SECTIONS
C-05		SITE 2 (13TH AVE) EXISTING CONDITIONS AND REMOVALS PLAN
C-06		SITE 2 (13TH AVE) GRADING AND DRAINAGE PLAN
C-07		SITE 2 (13TH AVE) GRADING PROFILE AND SECTIONS
C-08		SITE 2 (13TH AVE) STORM SEWER PROFILES AND PIPE TRENCH
C-09		CONSTRUCTION DETAILS
C-10		NORTH ST. PAUL STANDARD AND SPECIAL DETAILS
C-11		SITE 1 (CR-C) BORING LOGS
C-12		SITE 2 (13TH AVE) BORING LOGS
C-13		SITE 2 (13TH AVE) BORING LOGS

CONTACTS

BARR ENGINEERING CO. TYLER A. OLSEN, PE PROJECT MANAGER PHONE: 952-832-2930 EMAIL: tolsen@barr.com

RAMSEY WASHINGTON METRO WATERSHED DISTRICT PAIGE AHLBORG ASSISTANT ADMINISTRATOR PHONE: 651-792-7964 EMAIL: paige.ahlborg@rwmwd.org

RAMSEY WASHINGTON METRO WATERSHED DAVID VLASIN WATERSHED PROJECT COORDINATOR PHONE: 651-729-7970 EMAIL: david.vlasin@rwmwd.org

CITY OF MAPI EWOOD STEVE LOVE PUBLIC WORKS DIRECTOR PHONE: 651-249-2404 EMAIL: steve.love@maple

CITY OF NORTH ST PAUL MORGAN DAWLEY, PE CITY ENGINEER PHONE: 763-287-7173 EMAIL: mdawley@wsbeng.co

RAMSEY COUNTY B. GUS BLUMER DIRECTOR OF PLANNING & DEVELOPMENT PARKS & RECREATION PHONE: 651-266-0372 FMAIL: brett blumer@co ramsey mn us

> PRELIMINARY DRAFT NOT FOR CONSTRUCTION







KOHLMAN CREEK FLOOD-RISK REDUCTION
MAPLEWOOD & NORTH ST. PAUL, MINNESOTA

2362151700

TITLE SHEET, INDEX, AND VICINITY MAP

BY CHK APP DATE RELEASE/REVISION DESCRIPTION

Α	MOBILIZATION/DEMOBILIZATION	LS	1
В	TRAFFIC CONTROL	LS	1
С	CONTROL OF WATER	LS	1
SITE 1 - (CR-C)			
D	ROCK CONSTRUCTION ENTRANCE	EA	1
Е	SILT FENCE OR SEDIMENT LOG	LF	2,000
F	ROCK FILTER DIKE	EA	1
G	INLET PROTECTION - FILTER SACK	EA	2
Н	REMOVE TREES, BRUSH, AND DEBRIS (DISPOSAL OFF SITE) (P)	AC	0.16
ı	REMOVE TEMPORARY CULVERT INLET RESTRICTOR PLATE	LS	1
J	STRIP, SALVAGE AND REINSTALL TOPSOIL (P)	CY	121
K	IMPORT TOPSOIL BORROW	CY	60
L	COMMON EMBANKMENT CV (P)	ECY	65
M	AGGREGATE BASE (MN/DOT CLASS 5) (P)	ECY	170
N	RIPRAP (MN/DOT CL III FIELDSTONE)	TON	6
0	GEOTEXTILE FILTER TYPE V (P)	SY	640
P	SEEDING AND EROSION CONTROL BLANKET	SY	2,910
Q	12" CORRUGATED POLYETHYLENE PIPE (CPEP)	LF	32
R	12" METAL FLARED END SECTION	EA	2
T	BACKFLOW PREVENTION VALVE (12" INLINE)	EA	1
SITE 2 - (13TH AVE)			
D	ROCK CONSTRUCTION ENTRANCE	EA	1
E	SILT FENCE OR SEDIMENT LOG	LF	2,760
F	ROCK FILTER DIKE	EA	1
G	INLET PROTECTION - FILTER SACK	EA	5
Н	REMOVE TREES, BRUSH, AND DEBRIS (DISPOSAL OFF SITE) (P)	AC	0.07
J	STRIP, SALVAGE AND REINSTALL TOPSOIL (P)	CY	184
K	IMPORT TOPSOIL BORROW	CY	90
L	COMMON EMBANKMENT CV (P)	ECY	294
N	RIPRAP (MN/DOT CL III FIELDSTONE)	TON	17
P	SEEDING AND EROSION CONTROL BLANKET	SY	3,304
Q	24" CORRUGATED POLYETHYLENE PIPE (CPEP)	LF	272
Q	30" RC PIPE	LF	130
R	30" RC PIPE FLARED END SECTION	EA	1
S	BULKHEAD AND FILL STORM SEWER PIPE (W/ CLSM)	LF	140
U	CONNECT TO EXISTING PIPE OR STRUCTURE	EA	3
V	STORM SEWER DRAINAGE STRUCTURE (STMH-1)	EA	1
	STORM SEWER DRAINAGE STRUCTURE (STMH-2)	EA	1
v	STORM SEWER DRAINAGE STRUCTURE (STMH-3 DROP)	EA	1
	,		

DESCRIPTION

ITEM

GENERAL

PRELIMINARY DRAFT NOT FOR CONSTRUCTION

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.							
PRINTED NAME	A	GGN	TAO2		4/2/25	FOR REVIEW AND COMMENTS	BARR ENGINEERING CO.
SIGNATURE DATE LICENSE #	#	BY	СНК	APP	DATE	RELEASE/REVISION DESCRIPTION	4300 MARKETPOINTE DRIVE SUITE 200 MINNEAPOLIS, MN 55435





ESTIMATED QUANTITY

UNIT

KOHLMAN CREEK FLOOD-RISK REDUCTION	2362151700
MAPLEWOOD & NORTH ST. PAUL, MINNESOTA	DWG #
	G-02
STATEMENT OF ESTIMATED QUANTITIES	REV#

NOTES:

THIS STORMWATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN PREPARED IN COMPLIANCE WITH THE MINNESOTA GENERAL STORMWATER PERMIT FOR CONSTRUCTION ACTIVITY NO. MNR100001 (GENERAL PERMIT), AS REQUIRED BY THE MINNESOTA POLLUTION CONTROL AGENCY (MPCA) UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM/STATE DISPOSAL SYSTEM (NPDES/SDS) PROGRAM.

THE PROJECT IS LOCATED MAPLEWOOD, MINNESOTA AT 2 DIFFERENT LOCATIONS. SITE 1 IS LOCATED JUST SOUTH OF COUNTY RD CE AT THE INTERSECTION OF N. VAN DYKE ST. THE APPROXIMATE CENTROID OF SITE 1 HAS A LATITUDE OF 45.020056 AND A LONGITUDE OF -93.022583. SITE 2 IS LOCATED JUST SOUTH OF 13 AVE E. WEST OF THE SPIRIT HILLS LANE INTERSECTION. THE APPROXIMATE CENTROID OF SITE 2 HAS A LATITUDE OF 45.017139 AND A LONGITUDE OF -93.010431.

THE PROJECT WORK INVOLVES SITE GRADING, PLACEMENT OF NEW CULVERT AND APRONS, CONSTRUCTION OF OUTLET STRUCTURE AND STORM PIPING, CONSTRUCTION OF RIPRAP OUTFALL, AND SITE RESTORATION. THE PROJECT IS NOT PART OF A LARGER COMMON PLAN OF DEVELOPMENT. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES ARE REQUIRED TO MINIMIZE SEDIMENT FROM BEING TRANSPORTED TO BEAM POND, AN EPA - APPROVED IMPAIRED WATER. REFER TO PROJECT DRAWINGS FOR FURTHER DETAILS. (CSW PERMIT PART III.A.1)

- 1.1 PROJECT SIZE AND CUMULATIVE IMPERVIOUS SURFACE:

 THE ANTICIPATED AREA OF DISTURBANCE IS APPROXIMATELY 2.00 ACRES.
- THE TOTAL AREA OF PRE-CONSTRUCTION IMPERVIOUS AREA IS APPROXIMATELY 0 ACRES.
- THE TOTAL AREA OF POST-CONSTRUCTION IMPERVIOUS AREA IS APPROXIMATELY 0 ACRES. THE TOTAL NEW IMPERVIOUS AREA IS APPROXIMATELY 0 ACRES.

1.2 DATES OF CONSTRUCTION:
• ANTICIPATED START DATE: AUGUST 2025

ANTICIPATED END DATE: OCTOBER 2025

1.3 CONTACT INFORMATION:

OWNER: RAMSEY-WASHINGTON METRO WATERSHED DISTRICT MAILING ADDRESS: 2665 NOEL DRIVE LITTLE CANADA, MN 55117

CONTACT PERSON: PAIGE AHLBORG

PHONE NUMBER: 651-792-7964

TITLE: PROJECT MANAGER EMAIL ADDRESS: PAIGE.AHLBORG@RWMWD.ORG TITLE: DISTRICT ADMINISTRATOR EMAIL ADDRESS: TINA.CARSTENS@RWMWD.ORG

ALTERNATE CONTACT PERSON: TINA CARSTENS PHONE NUMBER: 651-792-7960

OPERATOR / GENERAL CONTRACTOR (WHO WILL OVERSEE IMPLEMENTATION OF THE SWPPP): TBD

MAILING ADDRESS: TBD CONTACT PERSON: TBD

TITLE: TBD

EMAIL ADDRESS: TBD

PARTY RESPONSIBLE FOR LONG-TERM OPERATION AND MAINTENANCE OF THE PERMANENT STORMWATER MANAGEMENT SYSTEM: RAMSEY-WASHINGTON METRO WATERSHED DISTRICT

MAILING ADDRESS: 2665 NOEL DRIVE LITTLE CANADA, MN 55117

CONTACT PERSON: PAIGE AHLBORG

TITLE: DISTRICT MANAGER EMAIL ADDRESS: PAIGE AHLBORG@RWMWD.ORG

PHONE NUMBER: 651-792-7964

2.0 RECEIVING WATERS

WATERS WITHIN ONE MILE (NEAREST STRAIGHT LINE DISTANCE) THAT ARE LIKELY TO RECEIVE STORMWATER RUNOFF FROM THE PROJECT SITE (CSW PERMIT ITEM 5.10) INCLUDE:

NAME OF WATER BODY	TYPE (1)	WATER BODY ID (2)	WATER? (3)	WATER? (3)	IN WATER RESTRICTIONS?
BEAM POND	POND	62-0141-00	NO	YES	NO
CASEY LAKE	LAKE	07010206	NO	NO	NO

- TYPE EXAMPLES: DITCH, POND, WETLAND, CALCAREOUS FEN, LAKE, STREAM, RIVER
- WATER BODY IDENTIFICATION (ID) MIGHT NOT BE AVAILABLE FOR ALL WATER BODIES. USE THE SPECIAL AND IMPAIRED WATERS SEARCH TOOL AT: HTTPS://WWW.PCA.STATE.MN.US/WATER/STORMWATER-SPECIAL-AND-IMPAIRED-WATERS-SEARCH
- REFER TO CSW PERMIT SECTION 23. IMPAIRED WATER FOR THE FOLLOWING POLLUTANT(S) OR STRESSOR(S): PHOSPHORUS (NUTRIENT EUTROPHICATION BIOLOGICAL INDICATORS), TURBIDITY, TOTAL SUSPENDED SOLIDS (TSS), DISSOLVED OXYGEN, OR AQUATIC BIOTA (FISH BIOASSESSMENT, AQUATIC PLANT BIOASSESSMENT, AND AQUATIC MACROINVERTEBRATE
- SPECIAL AND IMPAIRED WATERS: THE MPCA'S SPECIAL AND IMPAIRED WATERS SEARCH TOOL WAS USED TO LOCATE SPECIAL AND IMPAIRED WATERS WITHIN ONE MILE (AERIAL RADIUS MEASUREMENT) OF THE PROJECT SITE. DOBBINS CREEK HAS AN EPA-APPROVED IMPAIRMENT FOR AQUATIC LIFE. THESE IMPAIRMENTS ARE CONSIDERED NON-CONSTRUCTION RELATED AND DO NOT REQUIRE ADDITIONAL BEST MANAGEMENT PRACTICES (BMPS) OR PLAN REVIEW FOR COMPLIANCE WITH THE GENERAL PERMIT. (CSW PERMIT ITEM 2.7 AND SECTION 23)

THIS PROJECT DOES NOT INCLUDE ANY ADDITIONAL BMPS OR OTHER SPECIFIC CONSTRUCTION RELATED IMPLEMENTATION ACTIVITIES IDENTIFIED IN AN APPROVED TOTAL MAXIMUM DAILY LOAD (TMDL). (CSW PERMIT ITEM 5.19)

2.2 PUBLIC WATERS WITH WORK IN WATER RESTRICTIONS: THIS PROJECT DOES NOT INCLUDE WORK IN PUBLIC WATERS. (CSW PERMIT ITEM 5.11)

2.3 WETLAND IMPACTS: THIS PROJECT WILL NOT REQUIRE EXCAVATION AND FILL IN WETLANDS AS PART OF PROJECT CONSTRUCTION. (CSW PERMIT ITEMS 2.4 AND 2.10, AND SECTION 22)

2.4 ENVIRONMENTAL REVIEW AND OTHER REQUIRED REVIEWS: NO FEDERAL, STATE, OR LOCAL ENVIRONMENTAL REVIEWS OR ASSOCIATED ENVIRONMENTAL APPROVALS FOR THE PROJECT REQUIRE STORMWATER MITIGATION MEASURE. (CSW PERMIT ITEMS

2.5. KARST AREAS OR DRINKING WATER SUPPLY MANAGEMENT AREAS: THIS PROJECT DOES NOT INCLUDE ANY KARST OR DRINKING WATER SUPPLY MANAGEMENT AREAS. (CSW PERMIT ITEMS 16.19, 16.20, AND 18.10)

3.0 PROJECT PLANS AND SPECIFICATIONS:

REQUIRED FEATURE PROJECT LOCATION AND CONSTRUCTION LIMITS EXISTING AND FINAL GRADES, INCLUDING DRAINAGE AREA BOUNDARIES, DIRECTIONS OF FLOW AND ALL DISCHARGE POINTS WHERE STORMWATER IS LEAVING THE SITE OR ENTERING A SURFACE WATER

SOIL TYPES AT THE SITE

LOCATIONS OF IMPERVIOUS SURFACES

- LOCATIONS OF AREAS NOT BE BE DISTURBED (E.G., BUFFER ZONES, WETLANDS, ETC.) LOCATIONS OF AREAS OF STEEP SLOPES
- LOCATIONS OF AREAS WHERE CONSTRUCTION WILL BE PHASED TO MINIMIZE DURATION OF EXPOSED SOILS
- PORTIONS OF THE SITE THAT DRAIN TO A PUBLIC WATER WITH DNR WORK IN WATER RESTRICTIONS FOR FISH SPAWNING TIMEFRAMES
- LOCATIONS OF ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL BMPS AS REQUIRED IN PERMIT SECTIONS 8 THROUGH 10 AND 14 THROUGH 19
- BUFFER ZONES AS REQUIRED IN PERMIT ITEMS 9.17 AND 23.11 LOCATIONS OF POTENTIAL POLLUTION-GENERATING ACTIVITIES IDENTIFIED IN PERMIT
- SECTION 12 STANDARD DETAIL PLATES FOR EROSION AND SEDIMENT CONTROL BMPS TO BE INSTALLED AT THE SITE

4.0 BEST MANAGEMENT PRACTICES (BMPS):

- 4.1 EROSION PREVENTION PRACTICES:

 1. BEFORE LAND DISTURBING ACTIVITIES BEGIN, THE LIMITS OF THE AREAS TO BE DISTURBED DURING CONSTRUCTION WILL BE DELINEATED WITH FLAGS, STAKES, SIGNS, SILT FENCE, ETC.
- 2. TEMPORARY STABILIZATION OF SOILS AND SOIL STOCKPILES: (CSW PERMIT ITEMS 8.4, 8.5, AND 23.9) AREAS OF EXPOSED SOIL WILL BE STABILIZED WITH EROSION CONTROL BLANKÉT, PRESERVÁTION OF MATURE VEGETATION, MULCH OR EQUIVALENT MEASURES.
- b. IF PRESENT, SOIL STOCKPILES WILL BE STABILIZED WITH MULCH (SUCH AS STRAW MULCH, EROSION CONTROL BLANKETS OR EQUIVALENT MEASURES.
- TEMPORARY STOCKPILES WITHOUT SIGNIFICANT SILT, CLAY, OR ORGANIC COMPONENTS (E.G., CLEAN AGGREGATE STOCKPILES, DEMOLITION CONCRETE STOCKPILES, SAND STOCKPILES) AND THE CONSTRUCTED BASE COMPONENTS OF ROADS, PARKING LOTS, AND SIMILAR SURFACES ARE EXEMPT FROM THESE STABILIZATION REQUIREMENTS.
- 2. STABILIZATION OF DITCH AND SWALE WETTED PERIMETERS: (CSW PERMIT ITEMS 8.6 THROUGH 8.8)
 - a. IF SOILS WITHIN EXISTING STORMWATER DITCHES OR SWALES ARE DISTURBED, THEY WILL BE STABILIZED WITH CHANNEL EROSION CONTROL BLANKET, RIPRAP, TURF REINFORCEMENT MAT OR
 - b. MULCH, HYDROMULCH, TACKIFIER, POLYACRYLAMIDE, OR SIMILAR EROSION PREVENTION PRACTICES WILL NOT BE USED TO STABILIZE ANY PART OF AN EXISTING STORMWATER DITCH OR SWALE WITH A CONTINUOUS SLOPE OF GREATER THAN 2 PERCENT.
 - c. THE LAST 200 LINEAL FEET OF LENGTH OF THE NORMAL WETTED PERIMETER OF ANY TEMPORARY OR PERMANENT DITCH OR SWALE THAT DRAINS WATER FROM ANY PORTION OF THE CONSTRUCTION SITE, OR DIVERTS WATER AROUND THE SITE, WITHIN 200 LINEAL FEET FROM THE PROPERTY EDGE. OR FROM THE POINT OF DISCHARGE INTO ANY SURFACE WATER WILL BE STABILIZED WITHIN 24 HOURS AFTER CONNECTING TO A SURFACE WATER OR PROPERTY EDGE.
 - d. STABILIZATION OF THE REMAINING PORTIONS OF ANY TEMPORARY OR PERMANENT DITCHES OR SWALES WILL BE COMPLETED WITHIN 7 CALENDAR DAYS AFTER CONNECTING TO A SURFACE WATER OR PROPERTY EDGE AND CONSTRUCTION IN THAT PORTION OF THE DITCH HAS TEMPORARILY OR PERMANENTLY CEASED.
- ENERGY DISSIPATION AT PIPE OUTLETS: ENERGY DISSIPATION AT PIPE OUTLETS WILL BE PROVIDED WITH ONE OR MORE OF THE FOLLOW METHODS: RIP RAP, SPLASH PADS, GABIONS, OR EQUIVALENT MEASURES. (CSW PERMIT ITEM 8.9)
- 4. ÈROSION PREVENTION IMPLEMENTATION TIMELINES: (CSW PERMIT ITEMS 5.4, 8.4 THROUGH 8.6, AND 23.9) a. STABILIZATION OF EXPOSED SOIL AREAS (INCLUDING STOCKPILES) WILL BE INITIATED IMMEDIATELY TO LIMIT SOIL EROSION WHENEVER ANY CONSTRUCTION ACTIVITY HAS PERMANENTLY OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR
 - b. IF THE EXPOSED SOIL AREAS DRAIN TO A DISCHARGE POINT THAT IS WITHIN ONE MILE (AERIAL RADIUS MEASUREMENT) OF A SPECIAL OR IMPAIRED WATER (SEE SECTION 2.0), STABILIZATION OF EXPOSED SOIL AREAS (INCLUDING STOCKPILES) WILL BE INITIATED IMMEDIATELY TO LIMIT SOIL EROSION WHENEVER ANY CONSTRUCTION ACTIVITY HAS PERMANENTLY OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 7 CALENDAR DAYS.
- THE FOLLOWING ACTIVITIES CAN BE TAKEN TO INITIATE STABILIZATION: PREPPING THE SOIL FOR VEGETATIVE OR NON-VEGETATIVE STABILIZATION, APPLYING MULCH OR OTHER NON-VEGETATIVE PRODUCT TO THE EXPOSED SOIL AREA, OR SEEDING OR PLANTING THE EXPOSED AREA.
- 5. ADDITIONAL EROSION PREVENTION MEASURES: THE FOLLOWING ADDITIONAL EROSION PREVENTION METHODS WILL BE IMPLEMENTED AT THE SITE DURING CONSTRUCTION: (CSW PERMIT ITEMS 8.2, 8.3, AND 8.10)

 a. SOIL DISTURBANCE WILL BE MINIMIZED WHEREVER POSSIBLE TO AID IN EROSION PREVENTION.
 - EXISTING VEGETATION WILL BE PRESERVED WHEREVER POSSIBLE TO LIMIT EXPOSED SOIL AND THUS WILL SERVE AS NATURAL VEGETATIVE BUFFERS.
 - EXPOSED SOIL ON STEEP SLOPES (\leq 3H:1V) WILL BE STABILIZED USING EROSION CONTROL BLANKETS
 - HORIZONTAL SLOPE GRADING WILL BE UTILIZED TO MINIMIZE EROSION POTENTIAL
 - TERRACING WILL BE USED TO MINIMIZED EROSION POTENTIAL

1. DOWNGRADIENT PERIMETER CONTROLS: (CSW PERMIT ITEMS 9.2 THROUGH 9.6)

SHEET NUMBER

G-01, C-0, C-05

C-02, C-06

C-01, C-05

C-01, C-05

C-02, C-06

C-01, C-05

NA

G-07

- SEDIMENT CONTROL PRACTICES WILL BE ESTABLISHED ON ALL DOWNGRADIENT PERIMETERS AND LOCATED UPGRADIENT OF ANY BUFFER ZONES. PERIMETER SEDIMENT CONTROLS WILL INCLUDE: SILT FENCE, SEDIMENT CONTROL LOGS / BIOROLLS (FILLED WITH COMPOST, WOOD CHIPS, ROCK, ETC.), VEGETATIVE BUFFERS (RETAIN EXISTING VEGETATION WHERE POSSIBLE), OR EQUIVALENT MEASURES.
- PERIMETER SEDIMENT CONTROL PRACTICES MUST BE INSTALLED BEFORE ANY UPGRADIENT LAND-DISTURBING ACTIVITIES BEGIN AND REMAIN IN PLACE UNTIL PERMANENT COVER HAS BEEN
- c. IF SEDIMENT CONTROL PRACTICES HAVE BEEN ADJUSTED OR REMOVED TO ACCOMMODATE SHORT-TERM ACTIVITIES (SUCH AS CLEARING, GRUBBING, OR PASSAGE OF VEHICLES), THE CONTROLS MUST BE RE-INSTALLED IMMEDIATELY AFTER THE SHORT-TERM ACTIVITY HAS BEEN COMPLETED. SEDIMENT CONTROL PRACTICES MUST BE RE-INSTALLED BEFORE THE NEXT PRECIPITATION EVENT, EVEN IF THE SHORT-TERM ACTIVITY IS NOT COMPLETE.
- IF THE DOWNGRADIENT SEDIMENT CONTROLS ARE OVERLOADED (BASED ON FREQUENT FAILURE OR EXCESSIVE MAINTENANCE REQUIREMENT), INSTALL ADDITIONAL UPGRADIENT SEDIMENT CONTROL PRACTICES OR REDUNDANT BMPS TO ELIMINATE THE OVERLOADING AND AMEND THE SWPPP TO IDENTIFY THESE ADDITIONAL PRACTICES.
- SOIL STOCKPILE PERIMETER CONTROLS: TEMPORARY SOIL STOCKPILES WILL BE SURROUNDED BY: DOUBLE ROWS OF SILT FENCE, SEDIMENT CONTROL LOGS OR EQUIVALENT MEASURES, AND SHALL NOT BE PLACED IN ANY NATURAL BUFFERS OR SURFACE WATERS.(CSW PERMIT ITEMS 9.9 AND 9.10)
- STORM DRAIN INLET PROTECTION: (CSW PERMIT ITEMS 9.7 AND 9.8)
- a. INLET PROTECTION BMPS WILL BE INSTALLED AROUND ALL STORM DRAIN INLETS DOWNGRADIENT OF CONSTRUCTION ACTIVITIES
- STORM DRAIN INLETS WILL BE PROTECTED UNTIL ALL SOURCES WITH POTENTIAL FOR DISCHARGING TO THE INLET HAVE BEEN STABILIZED.
- INLET PROTECTION BMPS WILL BE: SEDIMENT CONTROL LOG, FILTER SACKS, OR EQUIVALENT MEASURES
- 4. VEHICLE TRACKING BMPS: (CSW PERMIT ITEMS 9.11 AND 9.12)
 - VEHICLE TRACKING BMPS WILL BE INSTALLED TO MINIMIZE THE TRACKING OUT OF SEDIMENT FROM THE CONSTRUCTION AREA AND WILL INCLUDE: ROCK PADS AND MUD MATS OR AN EQUIVALENT SYSTEM.
 - IF SUCH VEHICLE TRACKING BMPS ARE NOT ADEQUATE TO PREVENT SEDIMENT FROM BEING TRACKED ONTO THE PAVED ROAD, STREET SWEEPING WILL ALSO BE EMPLOYED. SEDIMENT WILL BE REMOVED BY SWEEPING WITHIN 24 HOURS.
- PROTECTION OF INFILTRATION AREAS: IF NECESSARY, ADDITIONAL SEDIMENT CONTROLS (E.G., DIVERSION BERMS) WILL BE INSTALLED TO KEEP RUNOFF AWAY FROM PLANNED INFILTRATION AREAS WHEN EXCAVATED PRIOR TO ESTABLISHING PERMANENT COVER WITHIN THE CONTRIBUTING DRAINAGE AREA, (CSW PERMIT
- MINIMIZATION OF SOIL COMPACTION AND PRESERVATION OF TOPSOIL: SOIL COMPACTION WILL BE MINIMIZED AND TOPSOIL WILL BE PRESERVED WHERE POSSIBLE. (CSW PERMIT ITEMS 5.24, 9.14, AND 9.15) PRIORITIZATION OF ONSITE INFILTRATION AND SEDIMENT REMOVAL: (CSW PERMIT ITEM 9.16)

- a. PRIOR TO OFFSITE DISCHARGE, INFILTRATION AND SEDIMENT REMOVAL WILL BE IMPLEMENTED ONSITE WHERE POSSIBLE
- DISCHARGES FROM BMPS WILL BE DIRECTED TO VEGETATED AREAS OF THE SITE (INCLUDING ANY NATURAL BUFFERS) IN ORDER TO INCREASE SEDIMENT REMOVAL AND MAXIMIZE STORMWATER INFILTRATION. IF EROSION IS NOTED TO OCCUR AS THE RESULT OF SUCH A DISCHARGE, VELOCITY DISSIPATION BMPS WILL BE CONSIDERED AND INSTALLED AS NECESSARY TO PREVENT EROSION.
- 8. BUFFER ZONE OR REDUNDANT SEDIMENT CONTROLS TO PROTECT SURFACE WATERS: (CSW PERMIT ITEM
 - A 50-FOOT NATURAL BUFFER WILL BE PRESERVED IN CONSTRUCTION AREAS DISCHARGING TO A NON-SPECIAL/NON-IMPAIRED SURFACE WATER OR WETLAND. IF A NON-SPECIAL/NON-IMPAIRED SURFACE WATER OR WETLAND IS LOCATED WITHIN 50 FEET OF THE PROJECT'S EARTH DISTURBANCES AND STORMWATER FLOWS TO THE SURFACE WATER, OR WHEN A BUFFER IS INFEASIBLE, REDUNDANT SEDIMENT CONTROLS WILL BE PROVIDED.
 - A 100-FOOT NATURAL BUFFER WILL BE PRESERVED IN CONSTRUCTION AREAS DISCHARGING TO A SPECIAL OR IMPAIRED SURFACE WATER. IF A SPECIAL OR IMPAIRED SURFACE WATER IS LOCATED WITHIN 100 FEET OF THE PROJECT'S EARTH DISTURBANCES AND STORMWATER FLOWS TO THE SURFACE WATER, OR WHEN A BUFFER IS INFEASIBLE, REDUNDANT SEDIMENT CONTROLS WILL BE
 - REDUNDANT PERIMETER CONTROLS WILL BE INSTALLED AT LEAST 5 FEET APART UNLESS LIMITED BY LACK OF AVAILABLE SPACE
- USE OF SEDIMENTATION TREATMENT CHEMICALS (E.G., POLYMERS, FLOCCULANTS, ETC.) IS NOT ANTICIPATED AS PART OF THE PROJECT. (CSW PERMIT ITEMS 5.22 AND 9.18)
- 10. THE PROJECT WILL NOT INCLUDE 10 OR MORE ACRES OF DISTURBED SOIL DRAINING TO A COMMON LOCATION OR 5 OR MORE ACRES DRAINING TO A COMMONLOCATION WITHIN 1 MILE OR A SPECIAL OR IMPAIRED WATER THEREFORE TEMPORARY SEDIMENT BASINS ARE NOT REQUIRED. (CSW PERMIT ITEMS 5.6, 9.13, AND 23.10 AND
- 4.3 DEWATERING AND BASIN DRAINING: (CSW PERMIT SECTION 10 AND ITEM 10.5)

 1. THE FOLLOWING WILL BE USED TO TREAT/DISPOSE OF TURBID OR SEDIMENT-LADEN WATER DURING
- DEWATERING OR BASIN DRAINING: TEMPORARY OR PERMANENT SEDIMENT BASINS OR EQUIVALENT MEASURES
- THE FOLLOWING WILL BE USED TO PREVENT EROSION OR SCOUR OF DISCHARGE POINTS DURING DEWATERING OR BASIN DRAINING: RIPRAP OR EQUIVALENT MEASURES.
- 3. FILTERS FOR BACKWASH WATER WILL BE MANAGED ON THE SITE OR PROPERLY DISPOSED OF BY INCORPORATING BACKWASH WATER INTO TEMPORARY OR PERMANENT SEDIMENT BASINS OR EQUIVALENT
- $\underline{4.4}$ BMP DESIGN FACTORS: THE FOLLOWING BMP DESIGN FACTORS HAVE BEEN CONSIDERED IN DESIGNING THE TEMPORARY EROSION PREVENTION AND SEDIMENT CONTROL BMPS:
- EXPECTED AMOUNT, FREQUENCY, INTENSITY, AND DURATION OF PRECIPITATION.
 NATURE OF STORMWATER RUNOFF AND RUN-ON AT THE SITE, INCLUDING FACTORS SUCH AS EXPECTED FLOW FROM IMPERVIOUS SURFACES, SLOPES, AND SITE DRAINAGE FEATURES.
- 3. STORMWATER VOLUME, VELOCITY, AND PEAK FLOW RATES TO MINIMIZE DISCHARGE OF POLLUTANTS IN STORMWATER AND TO MINIMIZE CHANNEL AND STREAMBANK EROSION AND SCOUR IN THE IMMEDIATE VICINITY OF DISCHARGE POINTS.
- 4. RANGE OF SOIL PARTICLE SIZES EXPECTED TO BE PRESENT.

(SEE PAGE 2 OF 2)

PRELIMINARY DRAFT NOT FOR CONSTRUCTION

4.2 SEDIMENT CONTROL PRACTICES:



KOHLMAN CREEK FLOOD-RISK REDUCTION 2362151700 MAPLEWOOD & NORTH ST. PAUL, MINNESOTA STORMWATER POLLUTION PREVENTION PLAN G-03 (SWPPP) 1 OF 2

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.

SIGNATURE ___ __LICENSE#_ BY CHK APP DATE RELEASE/REVISION DESCRIPTION

A PERMANENT STORMWATER MANAGEMENT SYSTEM IS REQUIRED IF THE PROJECT RESULTS IN ONE ACRE OR MORE OF NEW IMPERVIOUS SURFACES OR RESULTS IN A NET INCREASE OF ONE OR MORE ACRES OF CUMMULATIVE NEW IMPERVIOUS SURFACES IN TOTAL OR IF THE PROJECT IS PART OF A LARGER PLAN OF DEVELOPMENT. (CSW PERMIT

5.1 A PERMANENT STORMWATER TREATMENT SYSTEM IS NOT REQUIRED. (CSW PERMIT ITEMS 5.15, 15.4-15.9, AND

5.2 THIS IS NOT A LINEAR PROJECT WITH LACK OF RIGHT OF WAY. (CSW PERMIT ITEM 15.9)

<u>5.3</u> THIS PROJECT DOES NOT DISCHARGE TO A TROUT STREAM (OR A TRIBUTARY TO A TROUT STREAM). (CSW PERMIT ITEM 23.12)

6.0 INSPECTION AND MAINTENANCE ACTIVITIES:

6.1 PERSONS WITH REQUIRED TRAINING: TRAINED INDIVIDUALS INCLUDE THOSE PARTIES RESPONSIBLE FOR INSTALLING, SUPERVISING, REPAIRING, INSPECTING, AND MAINTAINING EROSION PREVENTION AND SEDIMENT CONTROL BMPS AT THE SITE. TRAINED INDIVIDUALS ARE ALSO RESPONSIBLE FOR IMPLEMENTATION OF THE SWPPF AND COMPLIANCE WITH THE GENERAL PERMIT UNTIL THE CONSTRUCTION ACTIVITIES ARE COMPLETE, PERMANENT COVER HAS BEEN ESTABLISHED, AND A NOTICE OF TERMINATION (NOT) HAS BEEN SUBMITTED. (CSW PERMIT ITEMS 5.20, 5.21, AND 11.9 AND SECTION 21)

THESE INDIVIDUALS WILL BE TRAINED IN ACCORDANCE WITH THE REQUIREMENTS OF THE GENERAL PERMIT, INCLUDING THE REQUIREMENT THAT THE CONTENT AND EXTENT OF TRAINING WILL BE COMMENSURATE WITH THE INDIVIDUAL'S JOB DUTIES AND RESPONSIBILITIES.

BELOW IS A LIST OF PEOPLE RESPONSIBLE FOR THIS PROJECT WHO ARE KNOWLEDGEABLE AND EXPERIENCED IN THE APPLICATION OF EROSION PREVENTION AND SEDIMENT CONTROL BMPS.

TRAINED INDIVIDUAL ERIC FITZGERALD	RESPONSIBILITY PREPARATION OF THE SWPPP	TRAINING ENTITY*_ UNIVERSITY OF MINNESOTA	TRAINING DATE MAY 2024
TBD	OVERSIGHT OF SWPPP IMPLEMENTA- TION, REVISION, AND AMMENDMENT	TBD	TBD
TBD	PERFORMANCE OF SWPPP INSPECTIONS	TBD	TBD
TBD	PERFORMANCE OR SUPERVISION OF INSTALLATION, MAINTENANCE, AND REPAIR OF BMPS	TBD	TBD

*TRAINING DOCUMENTATION AVAILABLE UPON REQUEST.

6.2 FREQUENCY OF INSPECTIONS: A TRAINED PERSON WILL ROUTINELY INSPECT THE ENTIRE CONSTRUCTION SITE. (CSW PERMIT ITEMS 11.2, 11.10, AND 23.13)

- AT LEAST ONCE EVERY 7 DAYS DURING ACTIVE CONSTRUCTION
- WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES IN 24 HOURS

INSPECTION FREQUENCY MAY BE ADJUSTED UNDER THE FOLLOWING CIRCUMSTANCES

- WHERE PARTS OF THE CONSTRUCTION AREAS HAVE PERMANENT COVER, BUT WORK REMAINS ON OTHER PARTS OF THE SITE, INSPECTIONS OF THE AREAS WITH PERMANENT COVER MAY BE REDUCED TO ONCE PER MONTH.
- WHERE CONSTRUCTION AREAS HAVE PERMANENT COVER AND NO CONSTRUCTION ACTIVITY IS OCCURRING ON THE SITE, INSPECTIONS CAN BE REDUCED TO ONCE PER MONTH AND, AFTER 12 MONTHS, MAY BE SUSPENDED COMPLETELY UNTIL CONSTRUCTION ACTIVITY RESUMES.
- WHERE CONSTRUCTION ACTIVITY HAS BEEN SUSPENDED DUE TO FROZEN GROUND CONDITIONS, THE INSPECTIONS MAY BE SUSPENDED. THE REQUIRED INSPECTIONS AND MAINTENANCE SCHEDULE MUST BEGIN WITHIN 24 HOURS AFTER RUNOFF OCCURS AT THE SITE OR UPON RESUMING CONSTRUCTION, WHICHEVER

6.3 INSPECTION REQUIREMENTS: EACH CONSTRUCTION STORMWATER SITE INSPECTION WILL INCLUDE INSPECTION OF THE FOLLOWING AREAS: (CSW PERMIT ITEMS 11.3 THROUGH 11.8)

• ALL EROSION PREVENTION AND SEDIMENT CONTROL BMPS AND POLLUTION PREVENTION MANAGEMENT

- SURFACE WATERS FOR EVIDENCE OF EROSION AND SEDIMENT DEPOSITION
 CONSTRUCTION SITE VEHICLE EXIT LOCATIONS FOR EVIDENCE OF OFFSITE SEDIMENT TRACKING
- STREETS AND OTHER AREAS ADJACENT TO THE PROJECT FOR EVIDENCE OF OFF SITE ACCUMULATIONS OF

6.4 MAINTENANCE REQUIREMENTS: MAINTENANCE OF THE FOLLOWING AREAS AND BMPS WILL BE PERFORMED AS FOLLOWS: (CSW PERMIT ITEMS 11.3 THROUGH 11.8)

- NONFUNCTIONAL BMPS WILL BE REPAIRED, REPLACED, OR SUPPLEMENTED WITH FUNCTIONAL BMPS BY THE END OF THE NEXT BUSINESS DAY AFTER DISCOVERY OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS.
- PERIMETER CONTROL DEVICES WILL BE REPAIRED. REPLACED, OR SUPPLEMENTED WHEN THEY BECOME
- NONFUNCTIONAL OR THE SEDIMENT REACHES 1/2 OF THE HEIGHT OF THE DEVICE. TEMPORARY AND PERMANENT SEDIMENTATION BASINS WILL BE DRAINED AND THE SEDIMENT REMOVED WHEN
- THE DEPTH OF SEDIMENT COLLECTED IN THE BASIN REACHES 1/2 THE STORAGE VOLUME. DELTAS AND SEDIMENT DEPOSITED IN SURFACE WATERS WILL BE REMOVED, AND THE AREAS WHERE SEDIMEN' REMOVAL RESULTS IN EXPOSED SOIL WILL BE RE-STABILIZED. THE REMOVAL AND STABILIZATION WILL BE COMPLETED WITHIN 7 CALENDAR DAYS OF DISCOVERY UNLESS PRECLUDED BY LEGAL, REGULATORY, OR PHYSICAL ACCESS CONSTRAINTS. IF PRECLUDED DUE TO ACCESS CONSTRAINTS, REASONABLE EFFORTS TO OBTAIN ACCESS WILL BE USED. REMOVAL AND STABILIZATION WILL TAKE PLACE WITHIN 7 CALENDAR DAYS OF OBTAINING ACCESS.
- TRACKED SEDIMENT ON PAVED SURFACES WILL BE REMOVED WITHIN 1 CALENDAR DAY OF DISCOVERY
- AREAS UNDERGOING STABILIZATION WILL BE RESTABILIZED AS NECESSARY TO ACHIEVE REQUIRED COVER.

- 6.5 RECORDKEEPING REQUIREMENTS: (CSW PERMIT ITEMS 11.11 AND 24.5 AND SECTIONS 6 AND 20)
- ALL INSPECTIONS AND MAINTENANCE ACTIVITIES WILL BE RECORDED IN WRITING WITHIN 24 HOURS OF BEING CONDUCTED AND THESE RECORDS WILL BE RETAINED WITH THE SWPPP. RECORDS OF EACH INSPECTION AND MAINTENANCE ACTIVITY WILL INCLUDE THE DATE AND TIME; NAME OF INSPECTOR(S); FINDINGS OF INSPECTIONS; CORRECTIVE ACTIONS (INCLUDING DATES, TIMES, AND PARTY COMPLETING MAINTENANCE ACTIVITIES); AND DATE OF ALL RAINFALL EVENTS GREATER THAN 0.5 INCHES IN 24 HOURS AND THE AMOUNT OF RAINFALL FOR **FACH EVENT**
 - a. IF ANY DISCHARGE IS OBSERVED DURING THE INSPECTION, THE LOCATION AND APPEARANCE OF THE DISCHARGE (I.E., COLOR, ODOR, SETTLED OR SUSPENDED SOLIDS, OIL SHEEN, AND OTHER OBVIOUS INDICATORS OF POLLUTANTS) WILL BE DOCUMENTED AND A PHOTOGRAPH WILL BE TAKEN.
- 2. THE SWPPP WILL BE AMENDED TO INCLUDE ADDITIONAL OR MODIFIED BMPS TO CORRECT PROBLEMS OR ADDRESS SITUATIONS WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, MAINTENANCE, WEATHER, OR SEASONAL CONDITIONS THAT HAS A SIGNIFICANT EFFECT ON THE DISCHARGE OF POLLUTANTS TO SURFACE WATERS OR GROUNDWATER.
 - a. THE SWPPP WILL BE AMENDED WHEN INSPECTIONS OR INVESTIGATIONS BY THE SITE OWNER, OPERATOR OR CONTRACTORS OR BY USEPA/MPCA OFFICIALS INDICATE THAT THE SWPPP IS NOT EFFECTIVE IN ELIMINATING OR MINIMIZING THE DISCHARGE OF POLLUTANTS TO SURFACE WATERS OR GROUNDWATER; THE DISCHARGES ARE CAUSING WATER QUALITY STANDARD EXCEEDANCES; OR THE SWPPP IS NOT CONSISTENT WITH A USEPA APPROVED TMDL.
 - ANY AMENDMENTS TO THE SWPPP PROPOSED AS A RESULT OF THE INSPECTION WILL BE DOCUMENTED AS REQUIRED WITHIN 7 CALENDAR DAYS.
 - AMENDMENTS WILL BE COMPLETED BY AN APPROPRIATELY TRAINED INDIVIDUAL. CHANGES INVOLVING THE USE OF A LESS STRINGENT BMP WILL INCLUDE A JUSTIFICATION DESCRIBING HOW THE REPLACEMENT BMP IS EFFECTIVE FOR THE SITE CHARACTERISTICS.
- RECORDS RETENTION: THE SWPPP, INCLUDING ALL CHANGES TO IT, AND INSPECTION AND MAINTENANCE RECORDS WILL BE KEPT AT THE SITE DURING CONSTRUCTION BY THE PERMITTEE WHO HAS OPERATIONAL CONTROL OF THE SITE. THE SWPPP CAN BE KEPT IN EITHER A FIELD OFFICE OR IN AN ON SITE VEHICLE DURING NORMAL WORKING HOURS
- RECORD AVAILABILITY: THE PERMITTEES WILL MAKE THE SWPPP, INCLUDING INSPECTION REPORTS. MAINTENANCE RECORDS, AND TRAINING RECORDS, AVAILABLE TO FEDERAL, STATE, AND LOCAL OFFICIALS WITHIN THREE DAYS UPON REQUEST FOR THE DURATION OF THE PERMIT COVERAGE AND FOR THREE YEARS FOLLOWING THE NOTICE OF TERMINATION.

7.0 POLLUTION PREVENTION MEASURES:

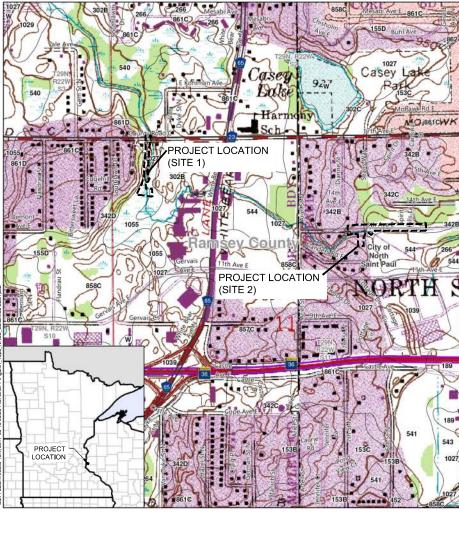
- ANY CONSTRUCTION PRODUCTS AND LANDSCAPE MATERIALS THAT HAVE THE POTENTIAL TO LEACH POLLUTANTS WILL BE STORED UNDER COVER (E.G., PLASTIC SHEETING OR TEMPORARY ROOFS) TO PREVENT DISCHARGE OF POLLUTANTS THROUGH MINIMIZATION OF CONTACT WITH STORMWATER. STORAGE OF SUCH MATERIALS WITHIN THE PROJECT AREA WILL BE MINIMIZED TO THE EXTENT POSSIBLE (CSW PERMIT ITEM 12.2)
- PESTICIDES, FERTILIZERS, AND TREATMENT CHEMICALS WILL BE STORED UNDER COVER (E.G., PLASTIC SHEETING, TEMPORARY ROOFS, WITHIN A BUILDING, OR IN WEATHER-PROOF CONTAINERS) TO PREVENT DISCHARGE OF POLLUTANTS THROUGH MINIMIZATION OF CONTACT WITH STORMWATER. STORAGE OF SUCH MATERIALS WITHIN THE PROJECT AREA WILL BE MINIMIZED TO THE EXTENT POSSIBLE. (CSW PERMIT ITEM 12.3)
- HAZARDOUS MATERIALS AND TOXIC WASTE (E.G., OIL, DIESEL FUEL, GASOLINE, HYDRAULIC FLUIDS, PAINT SOLVENTS, PETROLEUM-BASED PRODUCTS, WOOD PRESERVATIVES, ADDITIVES, CURING COMPOUNDS, AND ACIDS) WILL BE STORED AND DISPOSED OF IN COMPLIANCE WITH MINNESOTA RULES CHAPTER 7045, INCLUDING SECONDARY CONTAINMENT (AS APPLICABLE), HAZARDOUS MATERIALS WILL BE PROPERLY STORED IN SEALED CONTAINERS TO PREVENT SPILLS, LEAKS, OR OTHER DISCHARGES AND PREVENT PRECIPITATION FROM FALLING ONTO THE CONTAINERS OR STORED HAZARDOUS MATERIALS. (CSW PERMIT ITEMS 2.3 AND 12.4)
- SOLID WASTE WILL BE COLLECTED, STORED, AND DISPOSED OF PROPERLY IN COMPLIANCE WITH MINNESOTA RULES CHAPTER 7035. THIS INCLUDES STORAGE WITHIN COVERED TRASH CONTAINERS AND DAILY REMOVAL OF LITTER AND DEBRIS. STORAGE OF SOLID WASTE WITHIN THE PROJECT AREA WILL BE MINIMIZED TO THE EXTENT POSSIBLE. (CSW PERMIT ITEM 12.5)
- PORTABLE TOILETS WILL BE LOCATED AWAY FROM SURFACE WATERS AND POSITIONED AND SECURED TO THE GROUND SO THEY WILL NOT BE TIPPED OR KNOCKED OVER. SANITARY WASTE WILL BE DISPOSED OF IN ACCORDANCE WITH MINNESOTA RULES, CHAPTER 7041. PORTABLE TOILETS WILL BE PERIODICALLY EMPTIED AND THE WASTE HAULED OFF-SITE BY A LICENSED HAULER. (CSW PERMIT ITEM 12.6)
- VEHICLE FUELING WILL ONLY OCCUR IN DESIGNATED AREAS. SPILL KITS SIZED APPROPRIATELY FOR THE AMOUNT OF REFUELING TAKING PLACE WILL BE LOCATED. SPILL KITS WILL BE CLEARLY LABELED AND CONTAIN MATERIALS TO ASSIST IN SPILL CLEANUP INCLUDING ABSORBENT PADS BOOMS FOR CONTAINING SPILLS AND HEAVY-DUTY PROTECTIVE GLOVES. SPILLS WILL BE REPORTED TO THE MINNESOTA DUTY OFFICER AS REQUIRED BY MINNESOTA STATUTES, SECTION 115.061. (CSW PERMIT ITEMS 2.3 AND 12.7)
 - ANY FUEL TANKS BROUGHT ON-SITE WILL HAVE PROPERLY SIZED CONTAINMENT AND WILL NOT BE TOPPED OFF TO AVOID SPILLS FROM OVERFILLING. FUEL TANKS WILL MEET INDUSTRY STANDARDS (DESIGNED TO HOLD FUEL TYPE, PROPERLY MAINTAINED, NOT ILLEGALLY MODIFIED, NOT MISSING LEAK INDICATOR FLOATS FOR DOUBLE WALLED TANKS, SIGHT GAUGES NOT USED, ETC.) OR BE REMOVED FROM THE WORK
 - b. GUIDELINES FOR SPILL PREVENTION AND RESPONSE INCLUDE
 - TAKE REASONABLE STEPS TO PREVENT THE DISCHARGE OF SPILLED OR LEAKED CHEMICALS, INCLUDING FUEL, FROM ANY AREA WHERE CHEMICALS OR FUEL WILL BE LOADED OR UNLOADED, INCLUDING THE USE OF DRIP PANS OR ABSORBENTS UNLESS INFEASIBLE:
 - PERFORM REGULAR PREVENTATIVE MAINTENANCE ON TANKS AND FUEL LINES
 - INSPECT PUMPS, CYLINDERS, HOSES, VALVES, AND OTHER MECHANICAL EQUIPMENT ON-SITE FOR DAMAGE OR DETERIORATION
 - DO NOT WASH OR RINSE FUELING AREAS WITH WATER;
 - MAINTAIN ADEQUATE SUPPLIES TO CLEAN UP DISCHARGED MATERIALS AND PROVIDE AN APPROPRIATE DISPOSAL METHOD FOR RECOVERED SPILLED MATERIALS;
 - REPORT AND CLEAN UP SPILLS IMMEDIATELY AS REQUIRED BY MINNESOTA STATUTES, SECTION 115.061, USING DRY CLEAN UP MEASURES WHERE POSSIBLE; AND
 - MAINTAIN COPIES OF SAFETY DATA SHEETS (SDSS) FOR HAZARDOUS MATERIALS ON-SITE IN LOCATIONS READILY AVAILABLE TO EMERGENCY RESPONDERS.
- IF VEHICLE AND EQUIPMENT WASHING IS NECESSARY, A VEHICLE WASH STATION WILL BE LOCATED IN A DESIGNATED AREA. RUNOFF FROM THE WASHING AREA WILL BE CONTAINED IN A SEDIMENT BASIN AND WASTE FROM THE WASHING ACTIVITY WILL BE PROPERLY DISPOSED OF, ANY SOAPS, DETERGENTS, OR SOLVENTS WILL BE PROPERLY USED AND STORED. ANY DETERGENTS AND OTHER CLEANERS NOT PERMITTED FOR DISCHARGE WILL NOT BE USED. (CSW PERMIT ITEMS 2.3 AND 12.8)
- THE PROJECT WILL NOT RESULT IN CONCRETE OR OTHER WASHOUT ACTIVITIES. NO CONCRETE WASHOUT WILL BE ALLOWED ON SITE. (CSW PERMIT ITEMS 2.3 AND 12.9)

8.0 PERMANENT COVER AND PERMIT TERMINATION CONDITIONS:

- 1. THE AREAS DISTURBED DURING CONSTRUCTION WILL BE STABILIZED WITH PERMANENT COVER UPON COMPLETION OF WORK. PERMANENT COVER MAY BE VEGETATIVE OR NON-VEGETATIVE, AS APPROPRIATE. ESTABLISHMENT OF PERMANENT COVER MAY INCLUDE THE FOLLOWING ACTIVITIES: SEEDING, MULCHING, AND EROSION CONTROL BLANKETS. (CSW PERMIT ITEM 5.17)
- 2. FOR A CONSTRUCTION-SITE TO ACHIEVE "PERMANENT COVER", THE FOLLOWING REQUIREMENTS MUST BE COMPLETED PRIOR TO TERMINATION OF PERMIT COVERAGE: (CSW PERMIT SECTIONS 4 AND 13)
 - a. ALL SOIL DISTURBING CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED AND PERMANENT COVER HAS BEEN INSTALLED OVER ALL AREAS. VEGETATIVE COVER CONSISTS OF A UNIFORM PERENNIAL VEGETATION WITH A DENSITY OF 70% OF ITS EXPECTED FINAL GROWTH. VEGETATION IS NOT REQUIRED WHERE THE FUNCTION OF A SPECIFIC AREA DICTATES NO VEGETATION (SUCH AS IMPERVIOUS SURFACES OR THE BASE

 - ALL SEDIMENT HAS BEEN REMOVED FROM CONVEYANCE SYSTEMS, INCLUDING CULVERTS.
 ALL TEMPORARY SYNTHETIC EROSION PREVENTION AND SEDIMENT CONTROL BMPS HAVE BEEN REMOVED. BMPS DESIGNED TO DECOMPOSE ON-SITE MAY BE LEFT IN PLACE.

WITHIN 30 DAYS AFTER THE TERMINATION CONDITIONS ARE COMPLETE, A NOTICE OF TERMINATION (NOT) FORM WILL BE SUBMITTED TO THE MPCA.



County State-Aid Highway 10,000 — Municipal State-Aid Stree

State Trunk Highway

Municipal Street

County Boundary

Survey Area Status Map

Statewide SSURGO Data

SCALE IN FEET

TOPOGRAPHIC MAP WITH

Figure 1

SURFACE WATERS AND SOIL TYPES Stormwater Pollution Prevention Plan Ramsey County, Minnesota

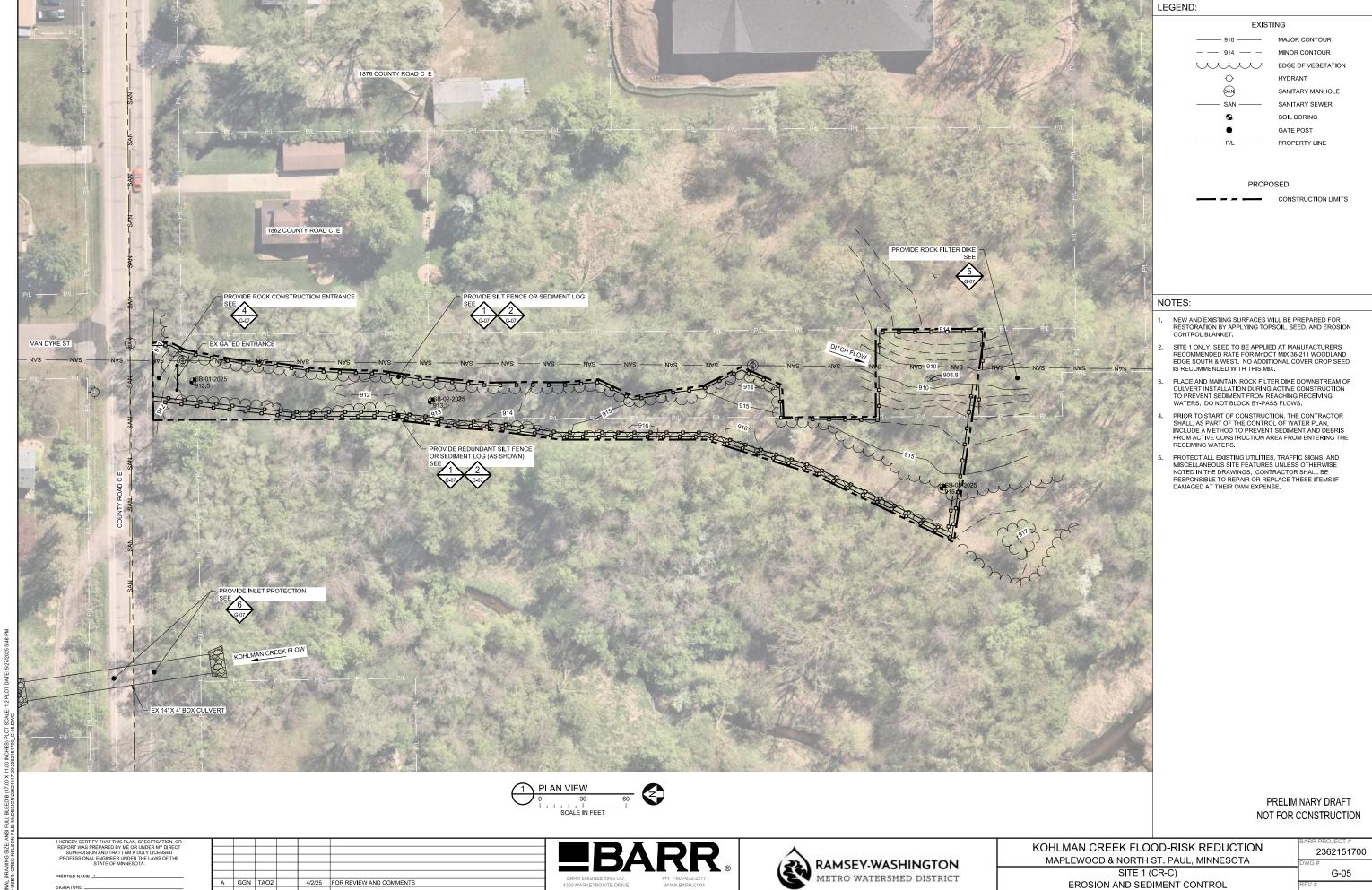
> PRELIMINARY DRAFT NOT FOR CONSTRUCTION

> > 2362151700

SIGNATURE _ BY CHK APP DATE RELEASE/REVISION DESCRIPTION



KOHLMAN CREEK FLOOD-RISK REDUCTION MAPLEWOOD & NORTH ST. PAUL, MINNESOTA STORMWATER POLLUTION PREVENTION PLAN (SWPPP) 2 OF 2



BY CHK APP DATE

__LICENSE # __

RELEASE/REVISION DESCRIPTION



KOHLMAN CREEK FLOOD-RISK REDUCTION	
MAPLEWOOD & NORTH ST. PAUL, MINNESOTA	
SITE 1 (CR-C)	
EROSION AND SEDIMENT CONTROL	
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4/2/25 FOR REVIEW AND COMMENTS

RELEASE/REVISION DESCRIPTION

BY CHK APP DATE

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KOHLMAN CREEK FLOOD-RISK REDUCTION 2362151700 MAPLEWOOD & NORTH ST. PAUL, MINNESOTA SITE 2 (13TH AVE) G-06 EROSION AND SEDIMENT CONTROL PLAN

RAMSEY-WASHINGTON

METRO WATERSHED DISTRICT

EXISTING

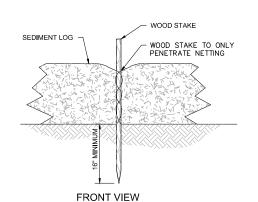
PROPOSED

MAJOR CONTOUR MINOR CONTOUR

SANITARY MANHOLE SANITARY SEWER SOIL BORING WATER LINE PROPERTY LINE UNDERGROUND ELECTRIC STORM MANHOLE STORM SEWER TELECOM BOX

CONSTRUCTION LIMITS

PRELIMINARY DRAFT NOT FOR CONSTRUCTION



SIDE VIEW ON SLOPE

MINIMUM OVERLAP ENDS WOOD STAKE

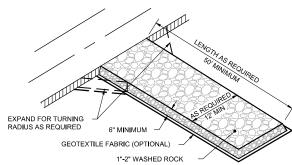
SIDE VIEW FLAT

TOP VIEW

NOTES:

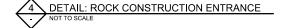
- 1. SEDIMENT LOG SHOULD BE INSTALLED ALONG CONTOURS (CONSTANT ELEVATION).
- 2. NO GAPS SHALL BE PRESENT UNDER SEDIMENT LOG. PREPARE AREA AS NEEDED TO SMOOTH SURFACE OR REMOVE DEBRIS.
- 3. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN REACHING 1/2 OF LOG HEIGHT.
- 4. SEDIMENT LOG SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD AND REPAIRED OR REPLACED AS REQUIRED.

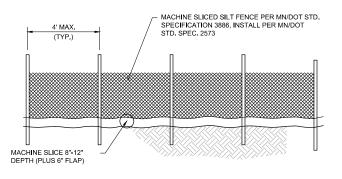




NOTES

- ENTRANCE SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD AND REPAIRED OR REPLACED AS REQUIRED TO PREVENT
- ENTRANCE SHALL BE REMOVED IN CONJUNCTION WITH FINAL GRADING AND SITE STABILIZATION.
- 3. PROTECTION OF CURB & GUTTER, TRAILS AND SIDEWALKS DUE TO CONTRUCTION ENTRANCE LOCATION SHALL BE CONSIDERED

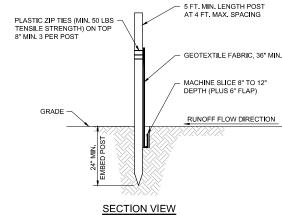




DOWNSTREAM VIEW

2. SILT FENCE INSTALLATION AND MATERIALS SHALL MEET THE REQUIREMENTS OF MN/DOT SPECIFICATIONS 2573 AND 3886

3. NO HOLES OR GAPS SHALL BE PRESENT IN/UNDER SILT FENCE. PREPARE AREA AS NEEDED TO SMOOTH SURFACE OR REMOVE DEBRIS.



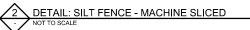
SLOPE INSTALLATION FLOW

- 1. REFER TO MANUFACTURER RECOMMENDATIONS FOR STAPLE PATTERNS FOR SLOPE INSTALLATIONS
- 2. PREPARE SOIL BY LOOSENING TOP 1-2 INCHES AND APPLY SEED (AND FERTILIZER WHERE REQUIRED) PRIOR TO INSTALLING BLANKETS, GROUND SHOULD BE SMOOTH AND FREE OF DEBRIS.
- BEGIN (A) AT THE TOP OF THE SLOPE AND ROLL THE BLANKETS DOWN OR (B) AT ONE END OF THE SLOPE AND ROLL THE BLANKETS HORIZONTALLY ACROSS THE SLOPE.
- 4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 6" OVERLAP, WITH THE UPHILL BLANKET ON TOP.

DETAIL: EROSION CONTROL BLANKET - INSTALLATION

- 5. WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 6" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART.
- 6. BLANKET MATERIALS SHALL BE AS SPECIFIED OR AS APPROVED BY ENGINEER.

DETAIL: SILT FENCE - MACHINE SLICED



1. SILT FENCE SHALL BE INSTALLED PRIOR TO ANY GRADING WORK IN THE AREA TO BE PROTECTED AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. SILT FENCE AND ANY ACCUMULATED SEDIMENT SHALL BE REMOVED IN CONJUNCTION WITH THE FINAL GRADING AND SITE STABILIZATION.

4. WHEN SEDIMENT BUILD UP REACHES 1/3 OF FENCE HEIGHT, THE SILT FENCE SHOULD BE REMOVED OR A SECOND SILT FENCE INSTALLED UPSTREAM OF THE EXISTING FENCE AT A

5. WHEN SPLICES ARE NECESSARY MAKE SPLICE AT POST ACCORDING TO SPLICE DETAIL. PLACE THE END POST OF THE SECOND FENCE INSIDE THE END POST OF THE FIRST FENCE.

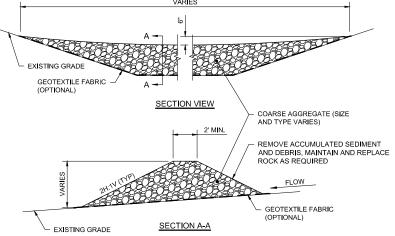
ROTATE BOTH POSTS TOGETHER AT LEAST 180 DEGREES TO CREATE A TIGHT SEAL WITH THE FABRIC MATERIAL. CUT THE FABRIC NEAR THE BOTTOM OF THE POSTS TO ACCOMMODATE THE 6 INCH FLAP. THEN DRIVE BOTH POSTS AND BURY THE FLAP. COMPACT BACKFILL.



ONE IM CALL

GOPHER STATE ONE CALL: CALL BEFORE YOU DIG.

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

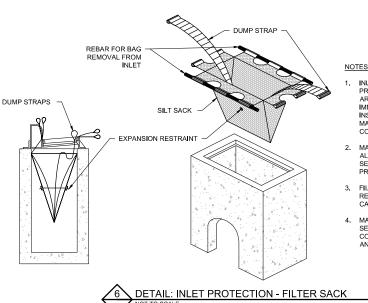


NOTES:

NOTES:

- AGGREGATE SIZE MAY VARY AND DEPENDING ON CHANNEL SIZE, FLOW, SEDIMENT LOAD OR OTHER SITE CONDITIONS. AGGREGATE USED SHOULD BE RELATIVELY FREE OF SEDIMENT PRIOR TO INSTALLATION.
- ROCK FILTER DIKE SHALL BE CLEANED OR REPLACED WHEN SEDIMENT BUILD UP REACHES 1/2 OF THE DIKE HEIGHT. ALTERNATIVELY A SECOND ROCK FILTER DIKE MAY BE INSTALLED DOWNSTREAM OF THE EXISTING DIKE AT A SUITABLE DISTANCE.
- 3. ROCK FILTER DIKE SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. ROCK, GEOTEXTILE AND ANY ACCUMULATED SEDIMENT SHALL BE REMOVED IN CONJUNCTION WITH THE FINAL GRADING AND SITE STABILIZATION.





IMMEDIATELY FOLLOWING CATCHBASIN INSTALLATION, AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. 2. MATERIALS SHALL BE SUFFICIENT TO

INLET PROTECTION SHALL BE INSTALLED PRIOR TO ANY GRADING WORK IN THE AREA TO BE PROTECTED OR

ALLOW FLOW WHILE BLOCKING SEDIMENT. NO HOLES OR GAPS SHALL BE PRESENT IN/AROUND FILTER SACK.

3. FILTER SACK SHOULD BE CLEANED AS REQUIRED TO ALLOW FLOW INTO CATCHBASIN.

 MATERIALS AND ANY ACCUMULATED SEDIMENT SHALL BE REMOVED IN CONJUNCTION WITH THE FINAL GRADING AND SITE STABILITATION. AND SITE STABILIZATION.

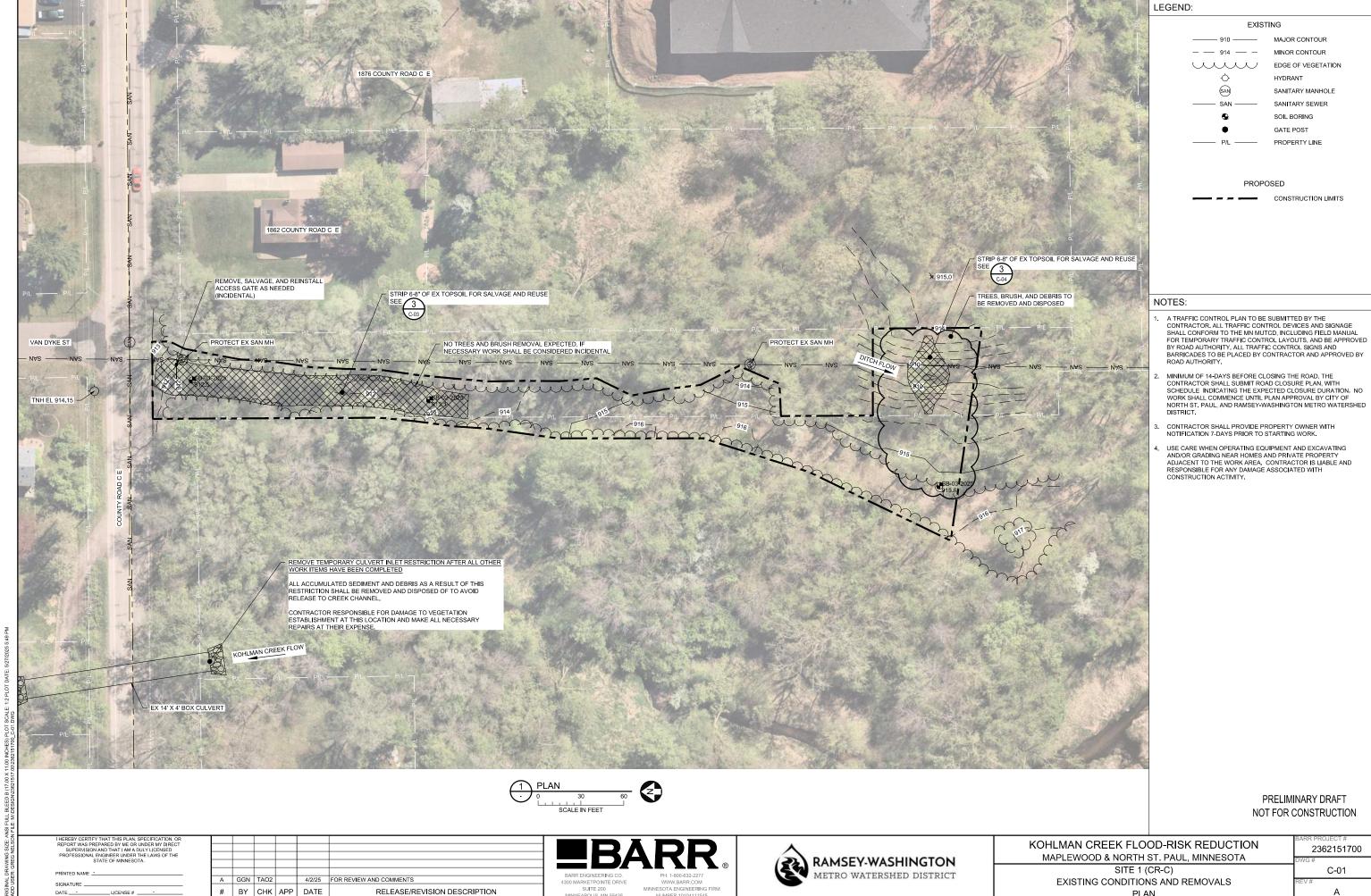
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HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, O REPORT WAS PREPARED BY ME OR UNDER MY DIREC GGN TAO2 4/2/25 FOR REVIEW AND COMMENTS _LICENSE# # BY CHK APP DATE RELEASE/REVISION DESCRIPTION

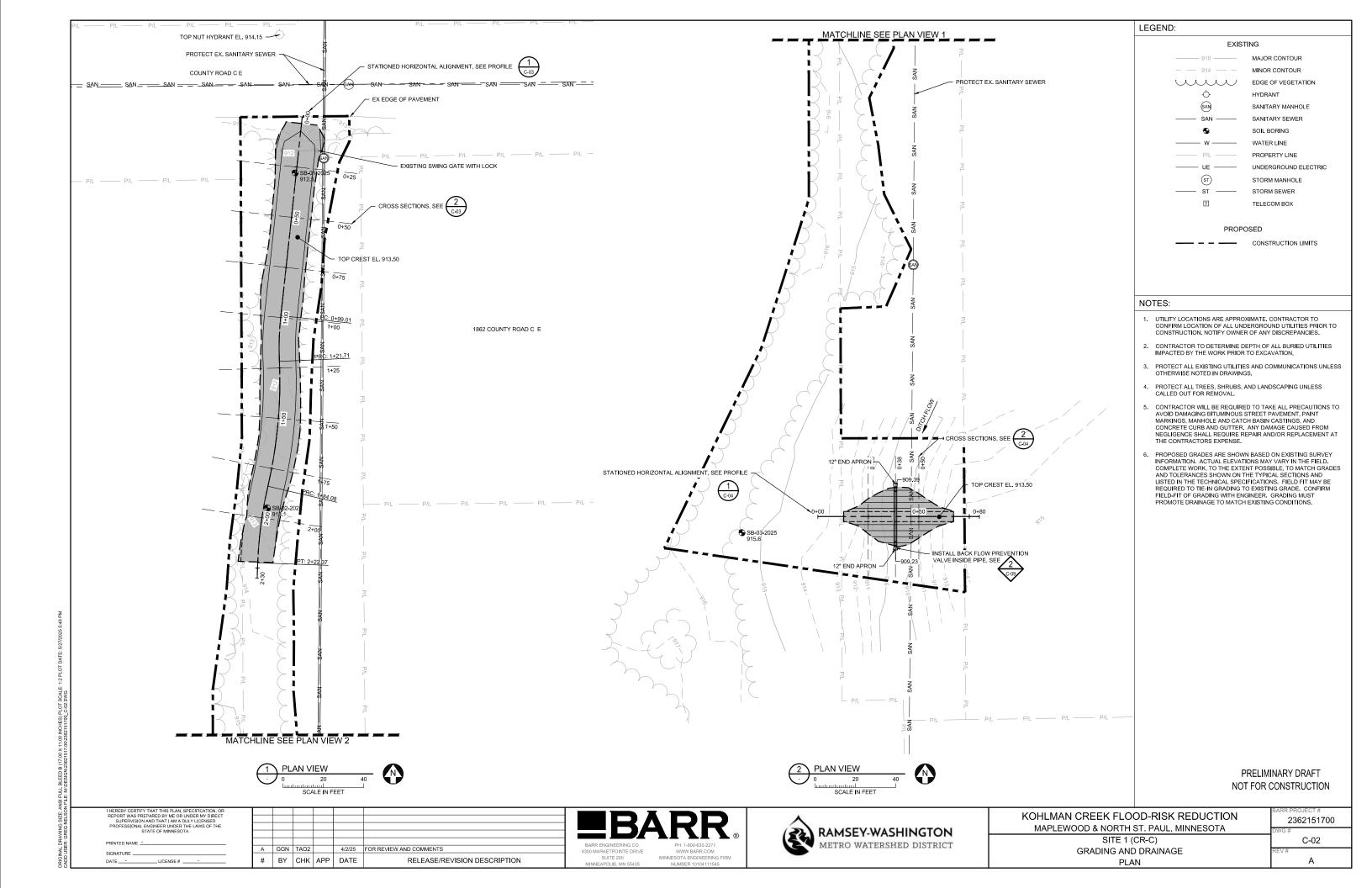


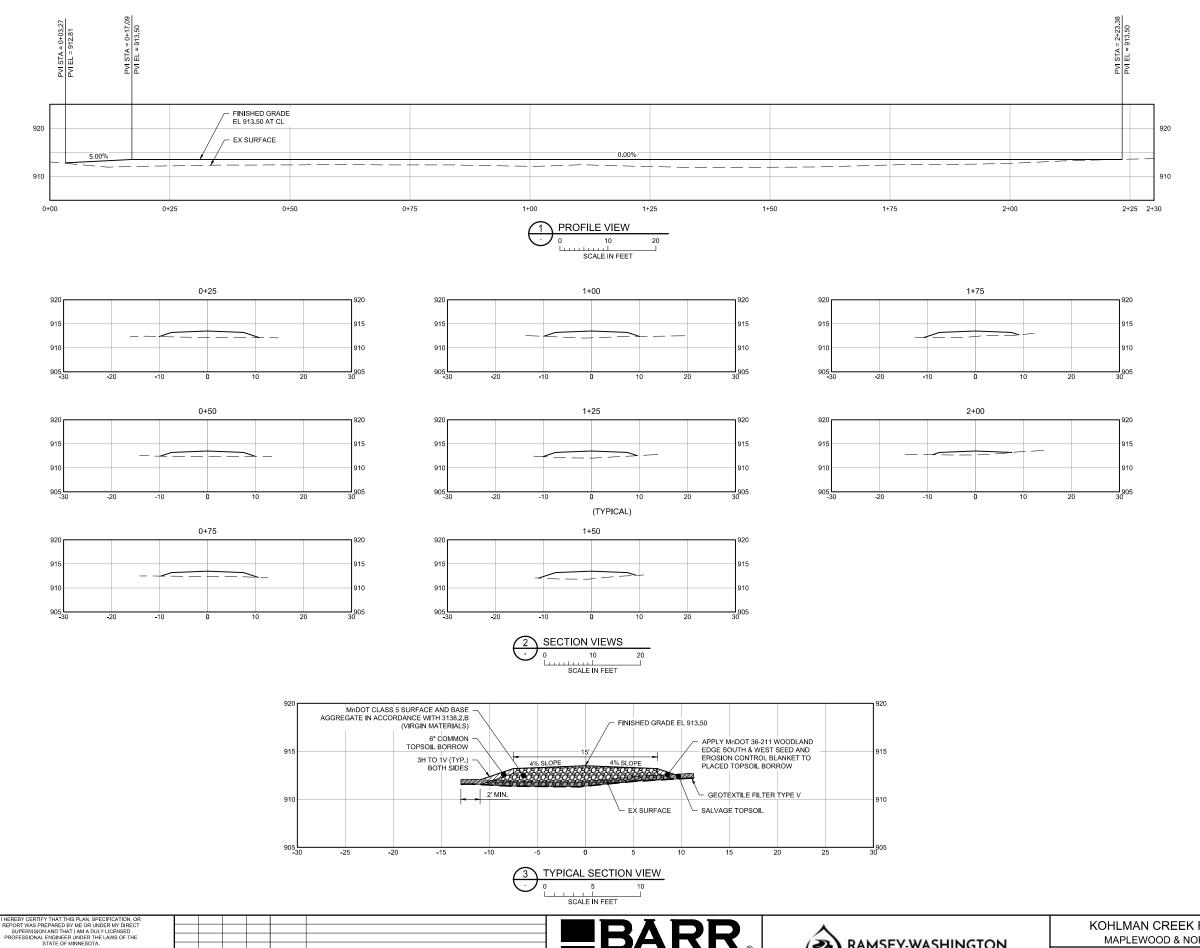


KOHLMAN CREEK FLOOD-RISK REDUCTION 2362151700 MAPLEWOOD & NORTH ST. PAUL, MINNESOTA **EROSION AND SEDIMENT CONTROL** G-07 DETAILS



KOHLMAN CREEK FLOOD-RISK REDUCTION	BARR PROJECT 236215
MAPLEWOOD & NORTH ST. PAUL, MINNESOTA	DWG#
SITE 1 (CR-C)] c-(
EXISTING CONDITIONS AND REMOVALS	REV#
PLAN	A





NOTES:

- ALL MATERIAL PLACED AS FILL OR BACKFILL SHALL CONSIST OF MATERIAL CLASSIFIED BY ASTM D 2487 AS SP, SM, SC, CL, AND SW. MATERIAL PLACED SHALL BE THE TYPE AS SPECIFIED FOR THE USE AND LOCATION AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH THE SPECIFICATIONS.
- CL MATERIAL SHALL HAVE A PLASTICITY INDEX LESS THAN 25 AND CLASSIFIED BY ASTM D 2487.
 - SP, SM,SC, AND SW SHALL BE HAVE LESS THAN 40% RETAINED ON THE NO. 4 SIEVE, AND LESS THAN 30%RETAINED ON THE 3/4" SIEVE.
- THE MATERIAL SHALL BE FREE OF ICE, SNOW, FROZEN EARTH, TRASH, DEBRIS, SOD, ROOTS, ORGANIC MATTER, OR STONES LARGER THAN 3 INCHES IN ANY DIRECTION.
- ALL MATERIAL PLACED AS ROADWAY FILL SHALL CONSIST OF MnDOT CLASS 5. MATERIAL PLACED SHALL BE THE TYPE AS SPECIFIED FOR THE USE AND LOCATION AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH THE SPECIFICATIONS
- MnDOT CLASS 5 TO BE PLACED AFTER SUBGRADE HAS BEEN ROLLED WITH SMOOTH DRUM ROLLER A MINIMUM OF TWO PASSES AND MnDOT GEOTEXTILE FILTER TYPE V PLACED OVER ROLLED SUBGRADE.
- 3. SALVAGED TOPSOIL SHALL BE COMMON TOPSOIL BORROWED FROM ON-SITE, STRIPPED FROM THE APPROXIMATE UPPER 6-8 INCHES (MEASURED DOWN FROM EXISTING GRADE) OF EXISTING SOIL ANY MATERIAL STRIPPED FROM BELOW THE ELEVATION OF 6-8 INCHES BELOW EXISTING GRADE SHALL NOT BE CONSIDERED TOPSOIL.
- FINAL GRADE SURFACES WILL BE PREPARED FOR RESTORATION BY APPLYING TOPSOIL, SEED, AND EROSION CONTROL BLANKET. SEED PLACED SHALL BE THE TYPE AS SPECIFIED FOR THE USE AND LOCATION AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH THE SPECIFICATIONS.

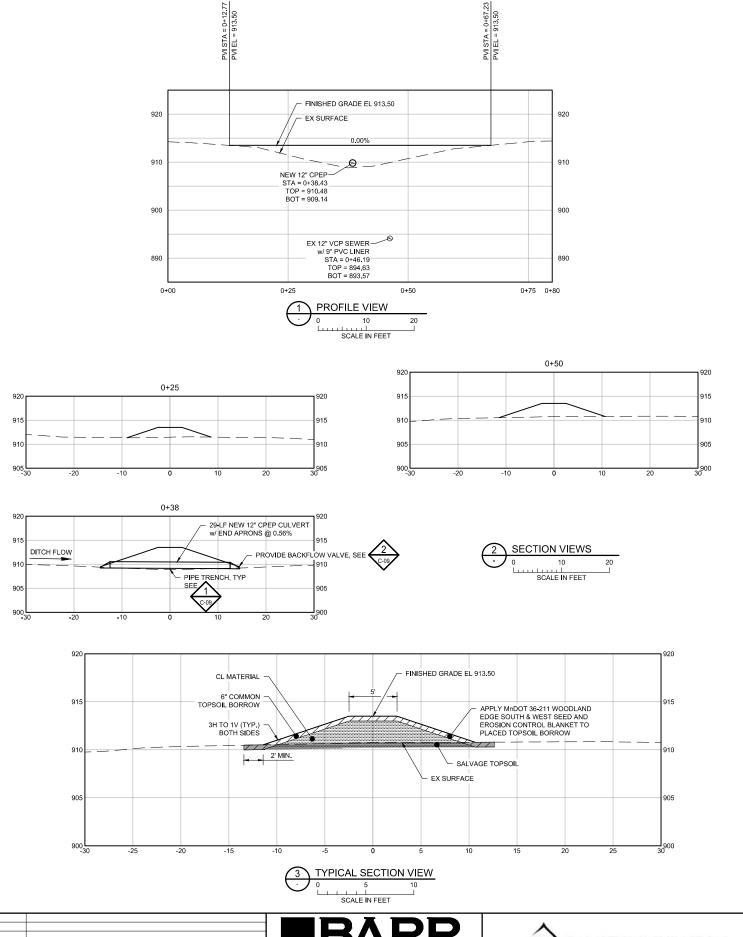
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KOHLMAN CREEK FLOO	BARR PROJECT # 2362151700	
MAPLEWOOD & NORTH S	ST. PAUL, MINNESUTA	DWG#
SITE 1 (CR-C)	C-03
GRAD	ING	REV#
PROFILE AND	SECTIONS	Α



NOTES:

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- SP, SM,SC, AND SW SHALL BE HAVE LESS THAN 40% RETAINED ON THE NO. 4 SIEVE, AND LESS THAN 30% RETAINED ON THE 3/4" SIEVE.
- .3. THE MATERIAL SHALL BE FREE OF ICE, SNOW, FROZEN EARTH, TRASH, DEBRIS, SOD, ROOTS, ORGANIC MATTER, OR STONES LARGER THAN 3 INCHES IN ANY DIRECTION.
- ALL MATERIAL PLACED AS ROADWAY FILL SHALL CONSIST OF MNDOT CLASS 5. MATERIAL PLACED SHALL BE THE TYPE AS SPECIFIED FOR THE USE AND LOCATION AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH THE SPECIFICATIONS.
- 2.1. MnDOT CLASS 5 TO BE PLACED AFTER SUBGRADE HAS BEEN ROLLED WITH SMOOTH DRUM ROLLER A MINIMUM OF TWO PASSES AND MnDOT GEOTEXTILE FILTER TYPE V PLACED OVER ROLLED SUBGRADE.
- SALVAGED TOPSOIL SHALL BE COMMON TOPSOIL BORROWED FROM ON-SITE, STRIPPED FROM THE APPROXIMATE UPPER 6-8 INCHES (MEASURED DOWN FROM EXISTING GRADE) OF EXISTING SOIL, ANY MATERIAL STRIPPED FROM BELOW THE ELEVATION OF 6-8 INCHES BELOW EXISTING GRADE SHALL NOT BE CONSIDERED TOPSOIL.
- 4. FINAL GRADE SURFACES WILL BE PREPARED FOR RESTORATION BY APPLYING TOPSOIL, SEED, AND EROSION CONTROL BLANKET. SEED PLACED SHALL BE THE TYPE AS SPECIFIED FOR THE USE AND LOCATION AS SHOWN ON THE DRAWINGS AND IN ACCORDANCE WITH THE SPECIFICATIONS.

PRELIMINARY DRAFT NOT FOR CONSTRUCTION

BARR ENGINEERING CO.

4300 MARKETPOINTE DRIVE

WWW.BARR COM
MINNESOTA ENGINEERING FIRM

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.

__LICENSE#__

SIGNATURE ____

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KOHLMAN CREEK FLOO	OD-RISK REDUCTION	BARR PROJECT # 2362151700
MAPLEWOOD & NORTH S	ST. PAUL, MINNESOTA	DWG#
SITE 1 (CR-C)	C-04
GRAD	ING	REV#
PROFILE AND	SECTIONS	Α



EXISTING MAJOR CONTOUR MINOR CONTOUR SANITARY MANHOLE SANITARY SEWER SOIL BORING WATER LINE PROPERTY LINE UNDERGROUND ELECTRIC

> STORM MANHOLE STORM SEWER

TELECOM BOX

-X-X-X-X-X-X-X BULKHEAD AND FILL EX STORM SEWER

PROPOSED

- . A TRAFFIC CONTROL PLAN TO BE SUBMITTED BY THE CONTRACTOR, ALL TRAFFIC CONTROL DEVICES AND SIGNAGE SHALL CONFORM TO THE MN MUTCD, INCLUDING FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL LAYOUTS, AND BE APPROVED BY ROAD AUTHORITY. ALL TRAFFIC CONTROL SIGNS AND BARRICADES TO BE PLACED BY CONTRACTOR AND APPROVED BY ROAD AUTHORITY.
- MINIMUM OF 14-DAYS BEFORE CLOSING THE ROAD, THE CONTRACTOR SHALL SUBMIT ROAD CLOSURE PLAN, WITH SCHEDULE INDICATING THE EXPECTED CLOSURE DURATION. NO WORK SHALL COMMENCE UNTIL PLAN APPROVAL BY CITY OF NORTH ST. PAUL, AND RAMSEY-WASHINGTON METRO WATERSHED DISTRICT.
- CONTRACTOR SHALL PROVIDE PROPERTY OWNER WITH NOTIFICATION 7-DAYS PRIOR TO STARTING WORK.

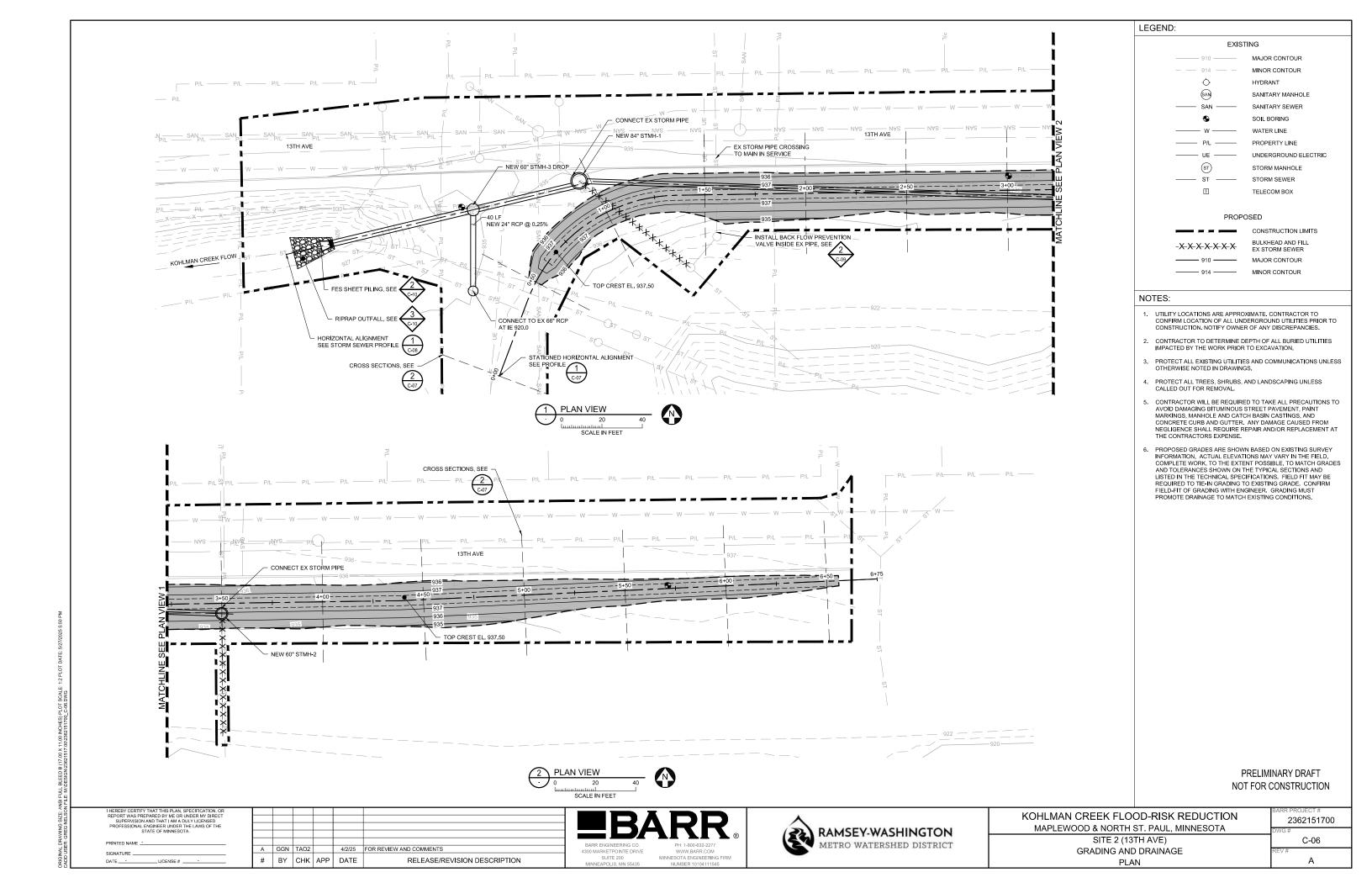
PRELIMINARY DRAFT NOT FOR CONSTRUCTION

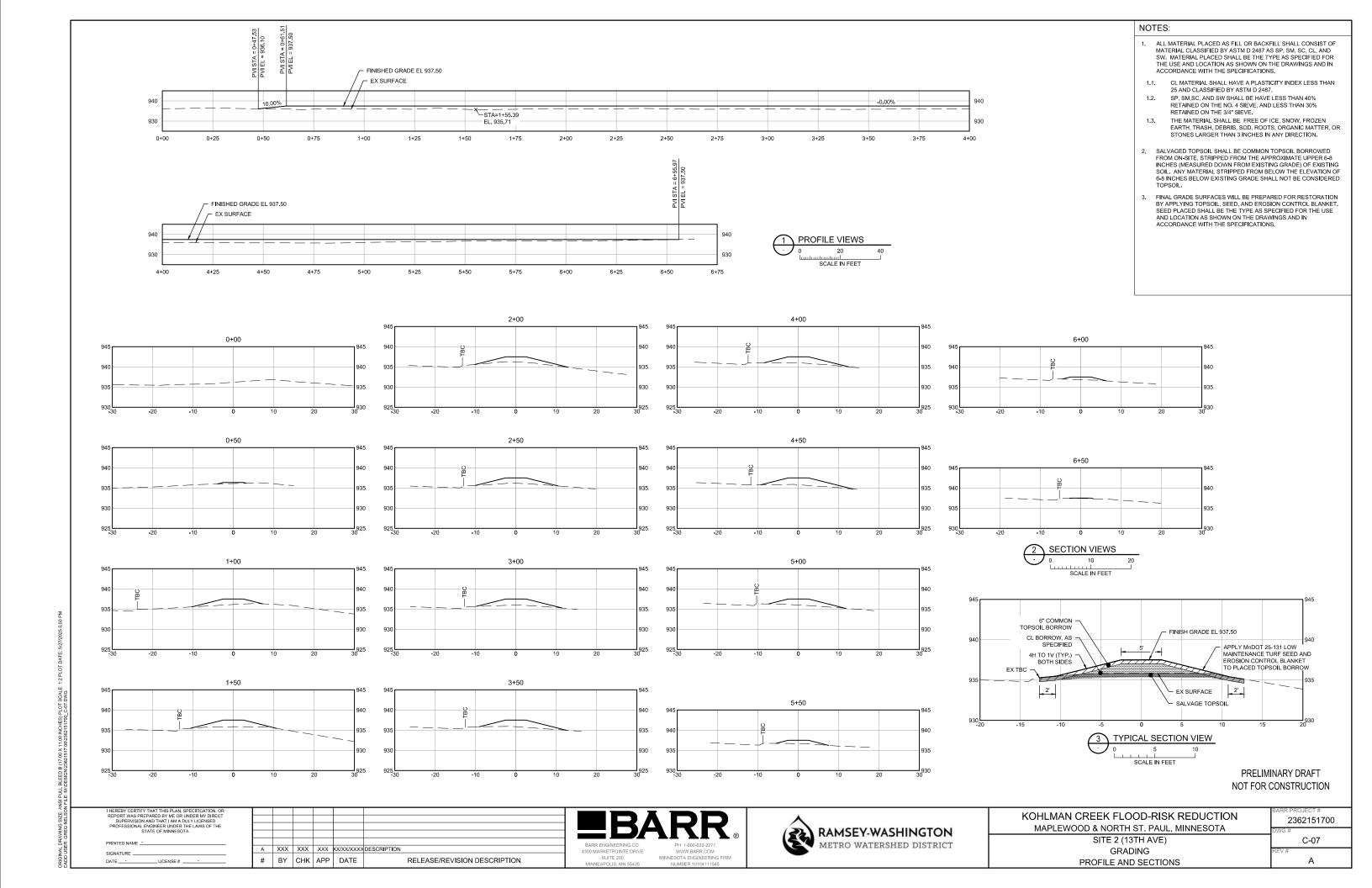
A GGN TAO2 4/2/25 FOR REVIEW AND COMMENTS # BY CHK APP DATE RELEASE/REVISION DESCRIPTION

__LICENSE# __

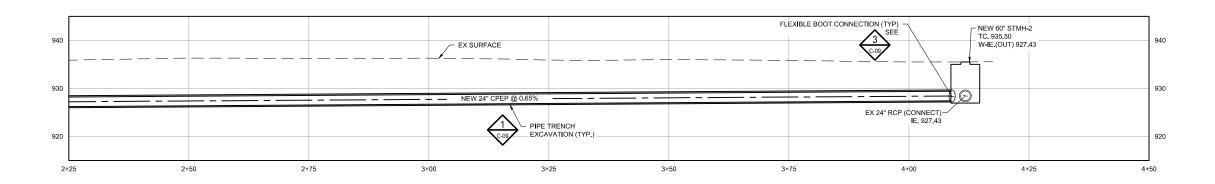


KOHLMAN CREEK FLOO	D-RISK REDUCTION	BARR PROJECT # 2362151700
MAPLEWOOD & NORTH S	T. PAUL, MINNESOTA	DWG#
SITE 2 (13T	H AVE)	C-05
EXISTING CONDITION:	S AND REMOVALS	REV#
PI AN	J	Α











DRAINAGE STRUCTURE TABLE

STRUCTURE NUMBER	COMPONENT DESCRIPTION	CASTING NUMBER	MnDOT STD. PLT.
STMH-1	MANHOLE COVER	715	4101
STMH-2	RING CASTING FOR MANHOLE OR CATCH BASIN	700-8	4101
STMH-3 DROP	CONCRETE ENCASED CONCRETE ADJUSTING RINGS		4026
	MANHOLE OR CATCH BASIN - FOR USE WITH OR WITHOUT TRAFFIC LOADS		4020
	MANHOLE OR CATCH BASIN STEP		4180
	PRECAST CONCRETE BASE		4011

PRELIMINARY DRAFT NOT FOR CONSTRUCTION

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. A GGN TAO2 4/2/25 FOR REVIEW AND COMMENTS SIGNATURE ____ # BY CHK APP DATE RELEASE/REVISION DESCRIPTION __LICENSE # __



KOHLMAN CREEK FLOOD-RISK REDUCTION	BARR PROJECT # 2362151700
MAPLEWOOD & NORTH ST. PAUL, MINNESOTA	DWG#
SITE 2 (13TH AVE)	C-08
STORM SEWER	REV#
PROFILES AND PIPE TRENCH	A

NOTES:

THE CONTRACTOR.

ALL EXCAVATED MATERIAL ENCOUNTERED AND DETERMINED TO BE UNSUITABLE FOR USE AS BACKFILL OR COMMON BORROW WILL BE DISPOSED OFFSITE BY THE CONTRACTOR. 2. EXCAVATED SOIL DETERMINED TO BE CONTAMINATED OR WITH DEBRIS SHALL BE DISPOSED OF OFFSITE AT A PERMITTED SOLID
WASTE FACILITY. NO ADDITIONAL COMPENSATION FOR
EXCAVATION OF THIS TYPE OF MATERIAL WILL BE GRANTED TO

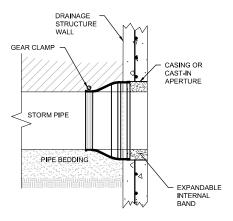
PAY ITEM FOR THE LANDFILL DISPOSAL FEE WILL BE GRANTED TO THE CONTRACTOR FOR THE PURPOSE OF PROPER HANDLING AND MANIFEST TRACKING OF THE MATERIAL.

4. FLEXIBLE BOOT SHALL BE REQUIRED ON ALL DRAINAGE STRUCTURES IF CPEP PIPE CONNECTIONS ARE REQUIRED.

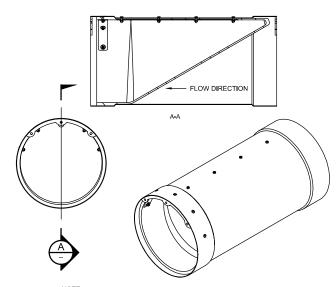
PIPE DIAM.	MIN. TRENCH WIDTH
INCHES	INCHES
4	21
6	23
8	26
10	28
12	30
15	34
18	39
24	48
30	56
36	64
42	72
48	80
54	88
60	96

- MPORTED PIPE EMBEDMENT MATERIAL PER MnDOT SPEC. 3149.2F GRANULAR BEDDING, 100% PASSING THE 1" SIEVE AND NOT MORE THAN 10.5% WILL PASS THE #200 SIEVE.
- MPORTED PIPE EMBEDMENT MATERIAL SHALL BE COMPACTED IN UNIFORM LIFTS, 8" OR LESS IN DEPTH, LOOSE
 MEASURE, TO 95% STANDARD PROCTOR DENSITY FROM THE BEDDING TO A MINIMUM DEPTH OF AT LEAST 12" ABOVE THE
 CROWN OF THE PIPE.









NOTE: CONTRACTOR TO FIELD VERIFY EXISTING PIPE DIAMETER TO PROVIDE THE APPROPRIATE VALVE SIZE REQUIRED

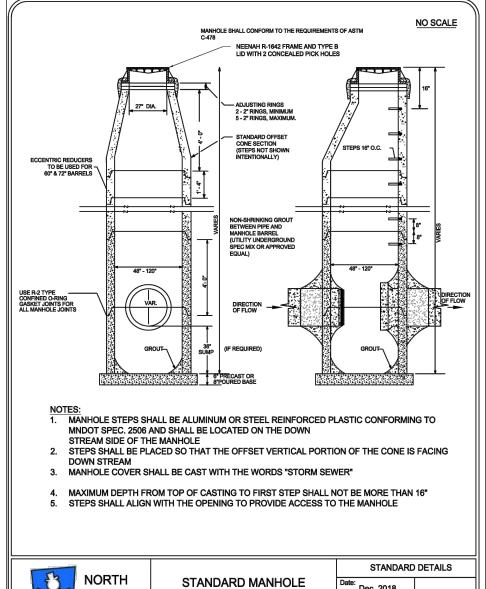
2 DETAIL: INLINE BACKFLOW PREVENTION VALVE
NOT TO SCALE

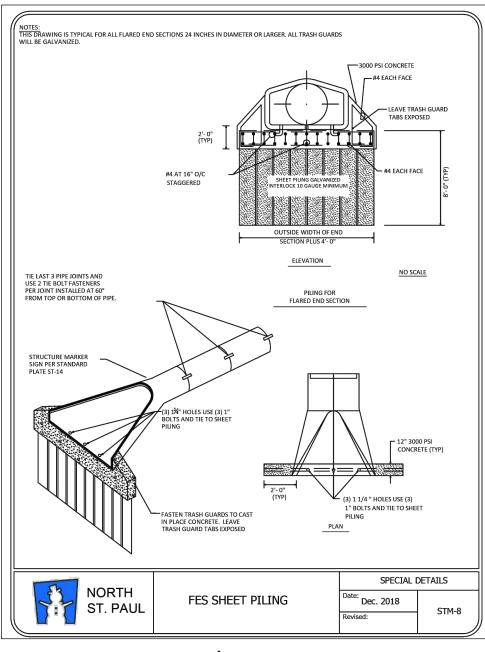
PRELIMINARY DRAFT NOT FOR CONSTRUCTION

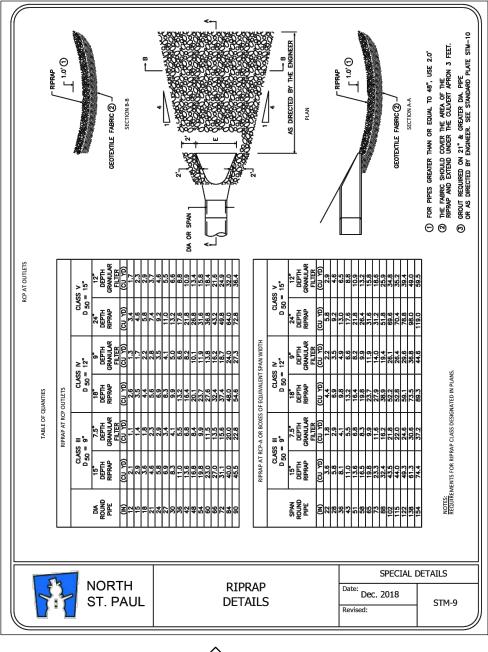




KOHLMAN CREEK FLOOD-RISK REDUCTION	BARR PROJECT # 2362151700
MAPLEWOOD & NORTH ST. PAUL, MINNESOTA	DWG#
CONSTRUCTION	C-09
DETAILS	REV#
	A









FOR STORM DRAIN





PRELIMINARY DRAFT NOT FOR CONSTRUCTION

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR							1
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.							1
PRINTED NAME -							
	Α	GGN	TAO2		4/2/25	FOR REVIEW AND COMMENTS	
SIGNATURE	ш	BY	СНК	ΔPP	DATE	DELEACE/DEVICION DECODIDATION	
DATELICENSE #	l #	ВΥ	CHK	APP	DATE	RELEASE/REVISION DESCRIPTION	l

Dec. 2018

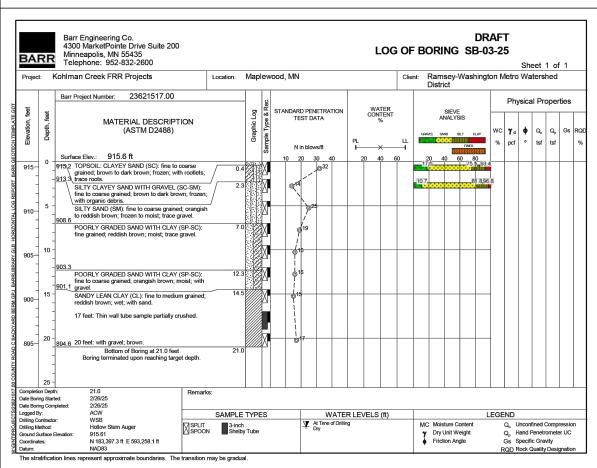
Feb. 2025

STM-3



KOHLMAN CREEK FLOOD-RISK REDUCTION	BARR PROJECT # 2362151700
MAPLEWOOD & NORTH ST. PAUL, MINNESOTA	DWG#
NORTH ST. PAUL	C-10
STANDARD AND SPECIAL	REV#
DETAILS	Α

ST. PAUL



DRAFT Barr Engineering Co. 4300 MarketPointe Drive Suite 200 LOG OF BORING SB-02-25 Minneapolis, MN 55435 BARR Telephone: 952-832-2600 Project: Kohlman Creek FRR Projects Location: Maplewood, MN Client: Ramsey-Washington Metro Watershed Barr Project Number: 23621517.00 Physical Properties STANDARD PENETRATION TEST DATA (ASTM D2488) N in blows/ft Surface Elev.: 913.1 ft Surface Elev: 913.1 ft

9128 TOPSOIL: CLAYEY SAND (SC): fine to medium
grained; dark brown to brown; frozen to moist, with
910.3 croatest; trace gravel.

CLAYEY SAND (SC): fine to coarse grained;
orangish brown to brown; frozen to moist; with
gravel.

SILTY SAND (SM): medium grained; orangish to
reddish brown; frozen to moist; trace gravel.

903.8 POGRY GRADED SAND WITH CLAY (SP-SC):
fine to coarse grained; oranish brown mottled with
light gray and dark brown; frozen to moist; trace
903.3 gravel and roots. 903.3 gravel and roots.

1 5.5 - 7.0 feet: driller noted large gravel / cobbles. Light auger chatter.

POORLY GRADED SAND (SP): fine to medium grained; orangish brown; moist; trace gravel and clav day.

898, 3 7.3 feet: coarse gravel.

POORLY GRADED SAND WITH CLAY (SP-SC):
fine to coarse grained; pale reddish brown to
orangish brown, moist, with gravel; trace roodlets.

POORLY GRADED SAND WITH CLAY (SP-SC):
Bottom of Boring at 17.8 feet
Boring terminated due to drill rig break down in
suitable soils. 17.8
2/25/25
2/25/25
2/25/25
ACW
WSB
Hollow Stem Auger
913.09
N 183,754.0 ft E 593,318.2 ft NAD83 SAMPLE TYPES WATER LEVELS (ft) LEGEND Q_n Hand Penetrometer UC Gs Specific Gravity RQD Rock Quality Designation

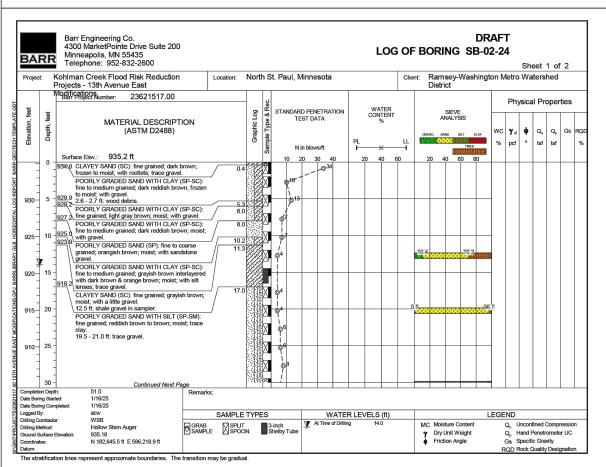
> PRELIMINARY DRAFT NOT FOR CONSTRUCTION

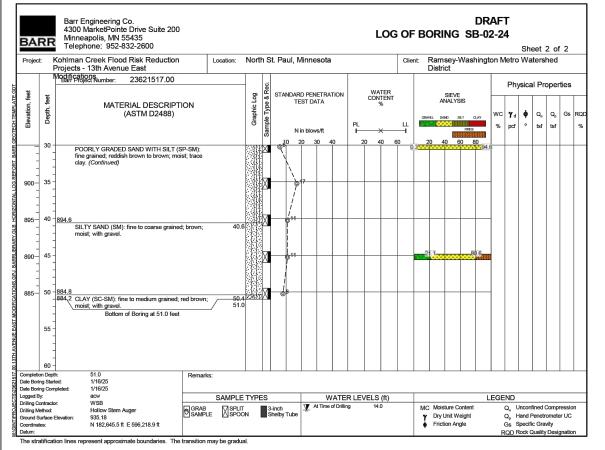
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The stratification lines represent approximate boundaries. The transition may be gradual.

KOHLMAN CREEK FLOOD-RISK REDUCTION	2362151700
MAPLEWOOD & NORTH ST. PAUL, MINNESOTA	DWG#
SITE 1 (CR-C)	C-11
BORING LOGS	REV#
	A





PRELIMINARY DRAFT NOT FOR CONSTRUCTION

BARR ENGINEERING CO.

BARR ENGINEERING CO.

BARR ENGINEERING CO.

PH: 1-800-632-2277

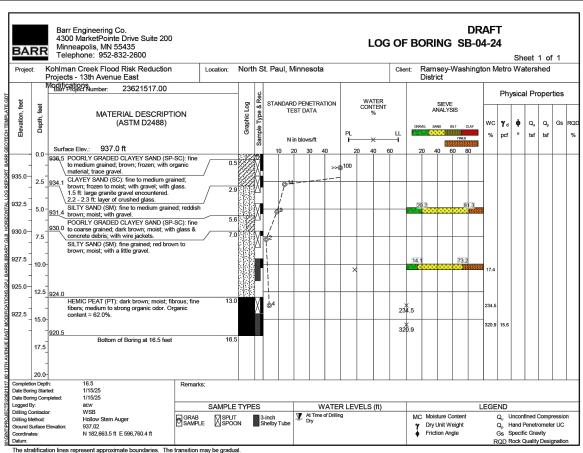
WWW.BARR COM
MINNEEDOLIS MN 55238

MINNEEDOLIS MN 55238

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KOHLMAN CREEK FLOOD-RISK REDUCTION	ON	BARR PROJECT # 2362151700
MAPLEWOOD & NORTH ST. PAUL, MINNESOTA	١	DWG#
SITE 2 (13TH AVE)		C-12
BORING LOGS		REV#
		Α



DRAFT Barr Engineering Co. 4300 MarketPointe Drive Suite 200 LOG OF BORING SB-03-24 Minneapolis, MN 55435 BARR Telephone: 952-832-2600 Kohlman Creek Flood Risk Reduction Location: North St. Paul, Minnesota Client: Ramsev-Washington Metro Watershed Projects - 13th Avenue East District Modifications 23621517.00 Physical Properties STANDARD PENETRATION TEST DATA MATERIAL DESCRIPTION (ASTM D2488) N in blows/ft HEMIC PEAT (PT): dark brown; moist; fibrous; fine fibers; medium to strong organic odor. Organic content = 70.9%. (Continued) 920.0-917.5 LEAN CLAY (CL): dark brown to black; moist; Organic content = 5.4%. 20.6 - 20.7 ft: gray. 20.8 - 21.0 ft: gray. 912.5 25.0 910.5 CLAYEY SAND (SC): fine to coarse grained reddish brown; saturated; with gravel. 26.0 1/15/25 1/15/25 acw WSB Hollow Stem Auger 935.84 N 182,661.1 ft E 596,489.8 ft GRAB SPUT Shelby Tube A Time of Drilling WATER LEVELS (ft) LEGEND Q, Unconfined Compression γ Dry Unit Weight Friction Angle Q, Hand Penetrometer UC Gs Specific Gravity RQD Rock Quality Designation The stratification lines represent approximate boundaries. The transition may be gradual.

> PRELIMINARY DRAFT NOT FOR CONSTRUCTION

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KOHLMAN CREEK FLOOD-RISK REDUCTION	2362151700
MAPLEWOOD & NORTH ST. PAUL, MINNESOTA	DWG#
SITE 2 (13TH AVE)	C-13
BORING LOGS	REV#
	A

Request for Board Action

Board Meeting Date: June 4, 2025 Agenda Item No: 7C

Preparer: Tina Carstens, Administrator

Item Description: Lake Wabasso Outlet Replacement Project Authorization to Finalize

Design and Prepare the Bidding Documents and Advertise for Bids.

Background:

See the attached memo for more information on the Lake Wabasso Outlet Replacement project.

This project was planned and designed at the request of Ramsey County through our Public Entity Cost Share Program. The project will be constructed using our CIP Maintenance and Repair fund, and then the construction costs will be reimbursed by Ramsey County. The engineer's opinion of the probable project construction cost is \$154,810. Following approval at this meeting, the bidding process will be followed by the selection of a contractor, which will be presented to the board for approval in July.

Applicable District Goal and Action Item:

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

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

Staff Recommendation:

Staff recommends that the Board 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.

Financial Implications:

The Lake Wabasso outlet project is included in the 2025 budget. Ultimately, Ramsey County will reimburse the district for the construction costs.

Board Action Requested:

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.



Technical Memorandum

To: RWMWD Board of Managers

From: Brandon Barnes – Barr Engineering Co. (Barr)

Subject: 95% Design Summary for Lake Wabasso Outlet Replacement Project

Date: May 28, 2025 **Project:** 23/62-1540.00

c: Paige Ahlborg (RWMWD), Tina Carstens (RWMWD)

1 Introduction

The purpose of this project is to replace the outlet structure for Lake Wabasso. The existing outlet was constructed in 1971 and has reached the end of its design life. Ramsey County determined that the outlet has been leaking beneath the weir wall for several years and that rebuilding the structure is necessary to prevent further seepage. The county requested RWMWD support for a design that both prevents seepage and avoids adverse impacts on floodplain elevations.

The Lake Wabasso outlet structure is located on the north end of the lake between 3558 Tiffany Lane and 3515 Ernal Drive in Shoreview. Ramsey County conducts routine maintenance for the lake outlet. The existing structure is a grated steel footbridge supported by wingwalls that are part of the weir structure directing flow through the outlet channel. The wingwalls show signs of cracking, and the base slab in the channel is also deteriorating. The existing outlet structure is shown in Figure 1.



Figure 1 Project area, taken north of outlet structure, looking south to Lake Wabasso

2 95% Design Description and Submittals to Board

Construction documents including bidding documents, technical specifications, and construction drawings have been prepared for the Lake Wabasso Replacement project. The design of the Lake Wabasso Outlet includes the removal of the existing outlet, regrading the channel banks, replacing it with a new outlet, and site restoration.

To: RWMWD Board of Managers

From: Brandon Barnes – Barr Engineering Co. (Barr)

Subject: 95% Design Summary for Lake Wabasso Outlet Replacement Project

Date: May 28, 2025

Page: 2

Lake Wabasso is a Public Water and is mapped on the FEMA Flood Insurance Rate Maps. As such, Barr designed the new outlet such that it would not change the outlet elevation from the lake or affect upstream or downstream water surface elevations. Barr and RWMWD staffed worked with Ramsey County, who maintains the outlet structure, during the design of the new outlet. The new outlet will have the same weir length and elevation of the existing structure but be relocated north of the current location. Relocating the outlet to the north was required to avoid conflicts with the footings of the existing structure, which will be abandoned below the channel. The foot bridge across the structure will be removed, at the request of one of the adjacent Property Owners who reported instances of trespassing on their property to access the bridge. The bridge will be replaced with a beam over the channel to allow RWMWD to continue to monitor water levels in Lake Wabasso. A rendering of the new outlet is shown in Figure 2.

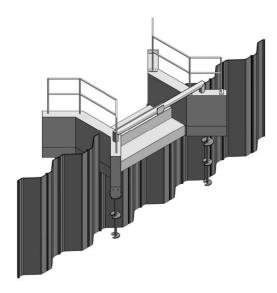


Figure 2 Rendering of Lake Wabasso Outlet Structure located south of outlet structure, looking north

During design, drawings were submitted to Ramsey County for review, and comments have been incorporated in the attached drawings. Drawings and a No Rise Certification (a No Rise Certification indicates that the proposed modifications will not impact the 100-year floodplain elevation) were also submitted to the Minnesota Department of Natural Resources (MnDNR) as part of the Public Waters Work permit application. We anticipate MnDNR approval in June.

3 Engineer's Opinion of Probable Cost

The engineer's opinion of probable cost is shown in Table 1. The opinion of probable cost provided is made on the basis of Barr's experience and qualifications and represents our best judgement as experienced and qualified professionals familiar with the project. Because we have no control over the cost of labor, materials, equipment or services furnished by others, or over the contractor's methods of determining prices, or over competitive bidding or market conditions, Barr cannot and does not guarantee that proposals, bids, or actual costs will not vary from the opinion of probable cost presented.

RWMWD has a cooperative agreement with Ramsey County for construction of the new outlet. The current outlet is owned by Ramsey County, and the agreement states that the County will be responsible for 100% of the construction costs to replace the County owned outlet within the project limits.

To: RWMWD Board of Managers

From: Brandon Barnes – Barr Engineering Co. (Barr)

Subject: 95% Design Summary for Lake Wabasso Outlet Replacement Project

Date: May 28, 2025

Page: 3

Table 1. Engineer's Opinion of Probable Cost

Item		Cost
Engineer's Opinion of Probable Construction Cost		\$154,810
Estimated Accuracy Range	Low (-10%)	\$139,329
	High (+20%)	\$185,772

Notes:

- 1 Quantities based on Design Work Completed (95%).
- 2 Unit Prices Based on Information Available at This Time.
- This design level (Class 1, 70-100% design completion per ASTM E 2516-11) cost estimate is based on 95% designs, alignments, quantities and unit prices. Costs will change with further design. The estimated accuracy range for the Total Project Cost as the project is defined is -10% to +20%. The accuracy range is based on professional judgement considering the level of design completed, the complexity of the project and the uncertainties in the project as scoped. The accuracy range is not intended to include costs for future scope changes that are not part of the project as currently scoped or costs for risk contingency. Operation and Maintenance costs are not included.
- Estimate assumes that projects will not be located on contaminated soil.
- 5 The estimated costs do not include maintenance, monitoring or additional tasks following construction.

4 Board Request

It is requested that the RWMWD Board of Managers approve the preliminary design, specifications, estimate of costs and proposed schedule (Section 5) and direct Barr to finalize the design, prepare the bidding documents, and advertise the project for bids from contractors to construct the Lake Wabasso Outlet Replacement project.

5 Schedule

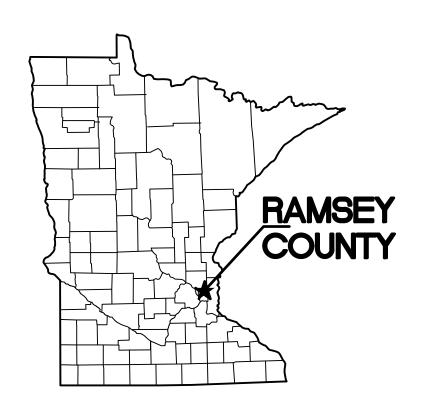
Pending Board approval, the project documents (e.g., plans, specifications) will be posted for bid in June. Bid opening will occur prior to the July Board meeting. After bidding, if a responsible low bidder is identified, Barr will return to the Board with the recommended low bidder in July. Construction will commence following the approval of the low bidder, with a target completion date of October 2025.

Attachments

- Issued for Approval Drawings for the Lake Wabasso Outlet Project
- Table of Contents for the Project Specifications

RAMSEY-WASHINGTON METRO WATERSHED DISTRICT

LAKE WABASSO OUTLET REPLACEMENT



LOCATION MAP()

EXISTING PROPERTY LINE EXISTING EASEMENT BOUNDARY EXISTING WATER EDGE (APPROX.) EXISTING SHEET PILE WALL (APPROX.) EXISTING BUILDING

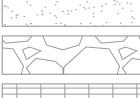
EXISTING BITUMINOUS SURFACE

EXISTING CONCRETE SURFACE



EXISTING LANDSCAPING

EXISTING GRAVEL SURFACE



EXISTING RIPRAP



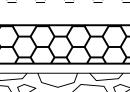
EXISTING STEEL GRATE



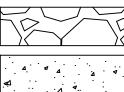
SOIL BORING



T_____ PROPOSED SHEET PILE WALL



PROPOSED RIPRAP



PROPOSED CONCRETE



PRINTED NAME.

GOPHER STATE ONE CALL: CALL CALL BEFORE YOU DIG.

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



DRAWING INDEX

DWG. NO. **DESCRIPTION** G-01 TITLE SHEET G-02 STORMWATER POLLUTION AND PREVENTION PLAN, SHEET 1 OF 2 STORMWATER POLLUTION AND PREVENTION PLAN, SHEET 2 OF 2 EROSION CONTROL DETAILS EXISTING CONDITIONS, REMOVALS, AND EROSION CONTROL PLAN TOPOGRAPHY, UTILITY, AND CONSTRUCTION PLAN C-03 SOIL BORING NOTES, PLAN & SECTIONS S-02 SECTIONS AND DETAILS RESTORATION AND TURF ESTABLISHMENT PLAN

VICINITY MAP

O

1

250

500

NOTE: 2019-08-29 NEARMAP ORTHOGRAPHIC IMAGE SHOWN PROJECT COORDINATE SYSTEM

HORIZONTAL: MnDOT RAMSEY COUNTY, US FOOT, NAD83 DATUM NAVD88 DATUM

CONTACTS

BARR ENGINEERING CO. BRANDON BARNES, PE PROJECT MANAGER PHONE: 952-832-2737 EMAIL: BBARNES@BARR.COM

RAMSEY WASHINGTON METRO WATERSHED DISTRICT TINA CARSTENS ADMINISTRATOR PHONE: 651-792-7960 EMAIL: tina.carstens@rwmwd.org

RAMSEY WASHINGTON METRO WATERSHED DISTRICT DAVID VLASIN WATERSHED PROJECT COORDINATOR PHONE: 651-729-7970 EMAIL: david.vlasin@rwmwd.org

PRELIMINARY DRAFT NOT FOR CONSTRUCTION

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 _____LICENSE # _____

A XXX XXX XXX XX/XX/20XX ISSUED FOR XXXX BY CHK APP DATE RELEASE/REVISION DESCRIPTION

BARR ENGINEERING CO. 4300 MARKETPOINTE DRIVE WWW.BARR.COM MINNESOTA ENGINEERING FIRM MINNEAPOLIS, MN 55435 NUMBER 10104111545



RAMSEY COUNTY

PHONE: 651-266-7162

EMAIL: alan.rupnow@co.ramsey.mn.us

ALAN RUPNOW

LAKE WABASSO OUTLET REPLACEMENT	BARR PROJECT # 2362154000
SHOREVIEW, MINNESOTA	DWG#
	G-01
TITLE SHEET	REV#

THIS STORMWATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN PREPARED IN COMPLIANCE WITH THE MINNESOTA GENERAL STORMWATER PERMIT FOR CONSTRUCTION ACTIVITY NO. MNR100001 (GENERAL PERMIT), AS REQUIRED BY THE MINNESOTA POLLUTION CONTROL AGENCY (MPCA) UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM/STATE DISPOSAL SYSTEM (NPDES/SDS)

THE PROJECT IS LOCATED IN SECTION 36, T30N, R23W, SHOREVIEW, RAMSEY COUNTY, MINNESOTA, PROPOSED CONSTRUCTION ACTIVITIES WILL TAKE PLACE AT THE LAKE WABASSO OUTLET STRUCTURE WHICH IS LOCATED OFF OF TIFFANY LN. THE APPROXIMATE CENTROID OF THE PROJECT HAS A LATITUDE OF 45°02'51.32"N AND A LONGITUDE OF 93°06'50.06"W.

THIS PROJECT INVOLVES CONSTRUCTION OF A NEW STRUCTURE. THE CONSTRUCTION ACTIVITIES INCLUDE BUT ARE NOT LIMITED TO REMOVAL OF EXISTING WEIR STRUCTURE AND RIPRAP, CONSTRUCTION OF NEW WEIR STRUCTURE, AND RESTORATION. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES ARE REQUIRED TO MINIMIZE POLLUTANTS FROM BEING TRANSPORTED INTO LAKE WABASSO OUTLET, WHICH IS DOES NOT HAVE ANY CONSTRUCTION RELATED IMPAIRMENTS. REFER TO PROJECT DRAWINGS FOR FURTHER DETAILS. (CSW PERMIT ITEM 5.3)

1.1 PROJECT SIZE AND CUMULATIVE IMPERVIOUS SURFACE: (CSW PERMIT ITEM 5.8) • THE ANTICIPATED AREA OF DISTURBANCE IS APPROXIMATELY 0.21 ACRES.

- THE TOTAL AREA OF PRE-CONSTRUCTION IMPERVIOUS AREA IS APPROXIMATELY 0 ACRES.
 THE TOTAL AREA OF POST-CONSTRUCTION IMPERVIOUS AREA IS APPROXIMATELY 0 ACRES.

THE TOTAL NEW IMPERVIOUS AREA IS APPROXIMATELY 0 ACRES.

- 1.2 DATES OF CONSTRUCTION:

 ANTICIPATED START DATE: AUGUST, 2025
- ANTICIPATED END DATE: OCTOBER, 2025

1.3 CONTACT INFORMATION:
OWNER: RAMSEY COUNTY PUBLIC WORKS

MAILING ADDRESS: 1425 PAUL KIRKWOLD DRIVE, ARDEN HILLS, MN. 55112 CONTACT PERSON: ALAN RUPNOW

TITLE: ENVIRONMENTAL RESOURCE SPECIALIST EMAIL ADDRESS: ALAN.RUPNOW@CO.RAMSEY.MN.US ALTERNATE CONTACT PERSON: DREW HEYER TITLE: ENVIRONMENTAL RESOURCE SPECIALIST PHONE NUMBER: 651-266-7160 EMAIL ADDRESS: DREW.HEYER@CO.RAMSEY.MN.US

OPERATOR / GENERAL CONTRACTOR (WILL OVERSEE IMPLEMENTATION OF THE SWPPP): TBD

MAILING ADDRESS: TBD

PHONE NUMBER: TBD EMAIL ADDRESS: TBD

PARTY RESPONSIBLE FOR LONG-TERM OPERATION AND MAINTENANCE OF THE PERMANENT STORMWATER MANAGEMENT SYSTEM: RAMSEY COUNTY PUBLIC WORKS

MAILING ADDRESS: 1425 PAUL KIRKWOLD DRIVE, ARDEN HILLS, MN. 55112
CONTACT PERSON: ALAN RUPNOW TITLE: ENVIRONMENTAL RESOURCE SPECIALIST

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WATERS WITHIN ONE MILE (NEAREST STRAIGHT LINE DISTANCE) THAT ARE LIKELY TO RECEIVE STORMWATER RUNOFF FROM THE PROJECT SITE (CSW PERMIT ITEM 5.10) INCLUDE:

NAME OF WATER BODY	TYPE (1)	WATER BODY ID (2)	SPECIAL WATER? (3)	MPAIRED WATER? (3)	PUBLIC WATER WITH WORK IN WATER RESTRICTIONS?
WABASSO LAKE	LAKE	62-0082-00	NO	NO	NO
GRASS LAKE	LAKE	62-0074-00	NO	NO	NO
WEST VADNAIS LAKE	LAKE	62-0038-00	NO	YES	NO

- TYPE EXAMPLES: DITCH, POND, WETLAND, CALCAREOUS FEN, LAKE, STREAM, RIVER
 WATER BODY IDENTIFICATION (ID) MIGHT NOT BE AVAILABLE FOR ALL WATER BODIES. USE THE SPECIAL AND IMPAIRED
- WATERS SEARCH TOOL AT: HTTPS://WWW.PCA.STATE.MN.US/WATER/STORMWATER-SPECIAL-AND-IMPAIRED-WATERS-SEARCH
- REFER TO CSW PERMIT SECTION 23.
- IMPAIRED WATER FOR THE FOLLOWING POLLUTANT(S) OR STRESSOR(S): PHOSPHORUS (NUTRIENT EUTROPHICATION BIOLOGICAL I NDICATORS), TURBIDITY, TOTAL SUSPENDED SOLIDS (TSS), DISSOLVED OXYGEN, OR AQUATIC BIOTA (FISH BIOASSESSMENT, AQUATIC PLANT BIOASSESSMENT, AND AQUATIC MACROINVERTEBRATE BIOASSESSMENT)
- 2.1 SPECIAL AND IMPAIRED WATERS; THE MPCA'S SPECIAL AND IMPAIRED WATERS SEARCH TOOL WAS USED TO LOCATE SPECIAL AND IMPAIRED WATERS WITHIN ONE MILE (AERIAL RADIUS MEASUREMENT) OF THE PROJECT SITE. WEST VADNAIS LAKE IS LOCATED WITHIN A ONE MILE (AERIAL RADIUS MEASUREMENT) AND HAS AN EPA-APPROVED IMPAIRMENT FOR NUTRIENTS. HOWEVER, WEST VADNAIS LAKE IS ANTICIPATED TO RECEIVE STORMWATER RUNOFF FROM THE PROJECT. ADDITIONALLY, THESE IMPAIRMENTS ARE CONSIDERED NON-CONSTRUCTION RELATED AND WOULD NOT REQUIRE ADDITIONAL BEST MANAGEMENT PRACTICES (BMPS) OR PLAN REVIEW FOR COMPLIANCE WITH THE GENERAL PERMIT. (CSW PERMIT ITEM 2.7 AND SECTION 23)
- 2.2 PUBLIC WATERS WITH WORK IN WATER RESTRICTIONS: THIS PROJECT DOES NOT INCLUDE WORK IN PUBLIC WATERS. (CSW PERMIT ITEM 5.11)
- 2.3 WETLAND IMPACTS: THIS PROJECT DOES NOT INCLUDE WETLAND IMPACTS. (CSW PERMIT ITEMS 2.4 AND 2.10, AND SECTION 22)

NOT APPLICABLE; ENVIRONMENTAL, ENDANGERED AND THREATENED SPECIES AND/OR ARCHEOLOGICAL REVIEWS WERE NOT REQUIRED AS

2.5 KARST AREAS OR DRINKING WATER SUPPLY MANAGEMENT AREAS: DESCRIBE ANY ADDITIONAL STORMWATER MANAGEMENT MEASURES REQUIRED FOR KARST OR DRINKING WATER SUPPLY MANAGEMENT AREAS TO PROTECT GROUNDWATER STANDARDS. (CSW PERMIT ITEMS 16.19, 16.20, AND 18.10)

NOT APPLICABLE; THE PROJECT IS NOT LOCATED WITHIN A KARST FEATURE OR DRINKING WATER SUPPLY MANAGEMENT AREA. 2.6 GROUNDWATER OR SOIL CONTAMINATION: DESCRIBE ANY SITE ASSESSMENTS FOR GROUNDWATER OR SOIL CONTAMINATION. (CSW PERMIT ITEMS 5.25 AND 16.15)

NOT APPLICABLE; A SITE ASSESSMENT FOR GROUNDWATER OR SOIL CONTAMINATION WAS NOT CONDUCTED BECAUSE THE PROJECT DOES NOT INCLUDE PLANS FOR AN INFILTRATION SYSTEM.

BY CHK APP

XX/20XX ISSUED FOR XXXX

RELEASE/REVISION DESCRIPTION

DATE

3.0 PROJECT PLANS AND SPECIFICATIONS:

- REQUIRED FEATURE

 PROJECT LOCATION AND CONSTRUCTION LIMITS EXISTING AND FINAL GRADES, INCLUDING DRAINAGE AREA BOUNDARIES, DIRECTIONS OF FLOW AND ALL DISCHARGE POINTS WHERE STORMWATER IS LEAVING THE SITE OR ENTERING A SURFACE WATER
- SOIL TYPES AT THE SITE
- LOCATIONS OF IMPERVIOUS SURFACES
- LOCATIONS OF AREAS NOT BE BE DISTURBED (E.G., BUFFER ZONES, WETLANDS, ETC.) LOCATIONS OF AREAS OF STEEP SLOPES (≥33%)
- LOCATIONS OF AREAS WHERE CONSTRUCTION WILL BE PHASED TO MINIMIZE DURATION
- PORTIONS OF THE SITE THAT DRAIN TO A PUBLIC WATER WITH DNR WORK IN WATER RESTRICTIONS FOR FISH SPAWNING TIMEFRAMES
- LOCATIONS OF ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL BMPS AS REQUIRED IN PERMIT SECTIONS 8 THROUGH 10 AND 14 THROUGH 19
- BUFFER ZONES AS REQUIRED IN PERMIT ITEMS 9.17 AND 23.11 LOCATIONS OF POTENTIAL POLLUTION-GENERATING ACTIVITIES IDENTIFIED IN PERMIT
- SECTION 12 STANDARD DETAILS FOR EROSION AND SEDIMENT CONTROL BMPS TO BE INSTALLED

4.0 BEST MANAGEMENT PRACTICES (BMPS):

4.1 EROSION PREVENTION PRACTICES: (CSW PERMIT ITEMS 5.3 THROUGH 5.5 AND SECTIONS 7 AND 8) 1. TEMPORARY STABILIZATION OF SOILS AND SOIL STOCKPILES: AREAS OF EXPOSED SOIL WILL BE STABILIZED WITH

- EROSION CONTROL BLANKETS, PRESERVED MATURE VEGETATION, MULCH, OR EQUIVALENT MEASURES. (CSW PERMIT ITEMS 8.4, 8.5, AND 23.9)
- a. SOIL STOCKPILES WILL BE STABILIZED WITH MULCH (SUCH AS STRAW MULCH, WOOD CHIPS, OR OTHER APPROPRIATE MULCH). IF SLOPES ARE STEEP IT MAY BE NECESSARY TO COVER WITH TARPS OR SHEETING IF
- TEMPORARY STOCKPILES WITHOUT SIGNIFICANT SILT, CLAY, OR ORGANIC COMPONENTS (E.G., CLEAN AGGREGATE STOCKPILES, DEMOLITION CONCRETE STOCKPILES, SAND STOCKPILES) AND THE CONSTRUCTED BASE COMPONENTS OF ROADS, PARKING LOTS, AND SIMILAR SURFACES ARE EXEMPT FROM THESE STABILIZATION REQUIREMENTS.
- 2. STABILIZATION OF DITCH AND SWALE WETTED PERIMETERS: THE FOLLOWING METHODS WILL BE USED FOR STABILIZATION OF DITHERS AND SWALE WETTED PERIMETERS: CHANNEL EROSION CONTROL BLANKET, ROCK DITCH CHECKS OR EQUIVALENT MEASURES.(CSW PERMIT ITEMS 8.6 THROUGH 8.8)

 a. MULCH, HYDROMULCH, TACKIFIER, POLYACRYLAMIDE, OR SIMILAR EROSION PREVENTION PRACTICES WILL NOT
 - BE USED TO STABILIZE ANY PART OF AN EXISTING STORMWATER DITCH OR SWALE WITH A CONTINUOUS SLOPE OF GREATER THAN 2 PERCENT.
 - THE LAST 200 LINEAL FEET OF LENGTH OF THE NORMAL WETTED PERIMETER OF ANY TEMPORARY OR PERMANENT DITCH OR SWALE THAT DRAINS WATER FROM ANY PORTION OF THE CONSTRUCTION SITE, OR DIVERTS WATER AROUND THE SITE, WITHIN 200 LINEAL FEET FROM THE PROPERTY EDGE, OR FROM THE POINT OF DISCHARGE INTO ANY SURFACE WATER WILL BE STABILIZED WITHIN 24 HOURS AFTER CONNECTING TO A SURFACE WATER OR PROPERTY EDGE.
 - STABILIZATION OF THE REMAINING PORTIONS OF ANY TEMPORARY OR PERMANENT DITCHES OR SWALES WILL BE COMPLETED WITHIN 14 CALENDAR DAYS AFTER CONNECTING TO A SURFACE WATER OR PROPERTY EDGE AND CONSTRUCTION IN THAT PORTION OF THE DITCH HAS TEMPORARILY OR PERMANENTLY CEASED.
- ENERGY DISSIPATION AT PIPE OUTLETS: ENERGY DISSIPATION AT PIPE OUTLETS WILL BE PROVIDED WITH ONE OR MORE OF THE FOLLOW METHODS: RIP RAP, OR EQUIVALENT MEASURES, (CSW PERMIT ITEM 8.9)
- EROSION PREVENTION IMPLEMENTATION TIMELINES: WHERE REQUIRED, STABILIZATION OF EXPOSED SOIL AREAS (INCLUDING STOCKPILES) MUST BE INITIATED IMMEDIATELY TO LIMIT SOIL EROSION WHENEVER ANY CONSTRUCTION ACTIVITY HAS PERMANENTLY OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS (CSW PERMIT ITEMS 5.4, 8.4 THROUGH 8.6, AND 23.9)

- THE FOLLOWING ACTIVITIES CAN BE TAKEN TO INITIATE STABILIZATION:

 a. PREPPING THE SOIL FOR VEGETATIVE OR NON-VEGETATIVE STABILIZATION
- APPLYING MULCH OR OTHER NON-VEGETATIVE PRODUCT TO THE EXPOSED SOIL AREA
- SEEDING OR PLANTING THE EXPOSED AREA
- FINALIZING ARRANGEMENTS TO HAVE STABILIZATION PRODUCT FULLY INSTALLED

BEFORE LAND DISTURBING ACTIVITIES BEGIN, THE LIMITS OF THE AREAS TO BE DISTURBED DURING CONSTRUCTION WILL BE DELINEATED (E.G., WITH FLAGS, STAKES, SIGNS, SILT FENCE, ETC.).

- e. FOR ALL EXPOSED SOIL AREAS THAT ARE WITHIN 200 FEET OF THE WATER'S EDGE AND DRAIN TO WABASSO LAKE PUBLIC WATER FOR WHICH THE DNR HAS PROMULGATED "WORK IN WATER RESTRICTIONS" DURING SPECIFIED FISH SPAWNING TIME FRAMES), STABILIZATION ACTIVITIES WILL BE COMPLETED WITHIN 24 HOURS DURING THE RESTRICTION PERIOD APRIL $1^{\rm ST}$ THROUGH JUNE $30^{\rm TH}$
- ADDITIONAL EROSION PREVENTION MEASURES: THE FOLLOWING ADDITIONAL EROSION PREVENTION METHODS WILL BE IMPLEMENTED AT THE SITE DURING CONSTRUCTION: (CSW PERMIT ITEMS 7.3, 8.2, AND 8.3)
 - a. CONSTRUCTION PHASING WILL BE UTILIZED TO MINIMIZE THE AREA OF SOIL EXPOSED AT ANY ONE TIME.
 - SOIL DISTURBANCE WILL BE MINIMIZED WHEREVER POSSIBLE TO AID IN EROSION PREVENTION.
 - EXISTING VEGETATION WILL BE PRESERVED WHEREVER POSSIBLE TO LIMIT EXPOSED SOIL AND THUS WILL SERVE AS NATURAL VEGETATIVE BUFFERS.
- d. EXPOSED SOIL ON STEEP SLOPES (≤3H:1V) WILL BE STABILIZED USING HYDROMULCH
- 6. PROTECTION OF INFILTRATION AREAS: NOT APPLICABLE; INFILTRATION AREAS WILL NOT BE CONSTRUCTED AS PART OF THIS PROJECT. (CSW PERMIT ITEMS 16.4, 16.5, AND 17.3)

4.2 SEDIMENT CONTROL PRACTICES:

- 1. DOWNGRADIENT PERIMETER CONTROLS: (CSW PERMIT ITEMS 5.3 THROUGH 5.5 AND SECTIONS 7 AND 9) a. SEDIMENT CONTROL PRACTICES WILL BE ESTABLISHED ON ALL DOWNGRADIENT PERIMETERS AND LOCATED
 - SEDIMENT CONTROL PRACTICES WILL BE ESTABLISHED ON ALL BOTTOLS WILL INCLUDE: SILT FENCING, UPGRADIENT OF ANY BUFFER ZONES, PERIMETER SEDIMENT CONTROLS WILL INCLUDE: SILT FENCING, SEDIMENT CONTROL LOGS/BIOLOGS (FILLED WITH COMPOST, WOOD CHIPS, ETC.), NATIVE MATERIAL BARRIERS OR EQUIVALENT MEASURES. (CSW PERMIT ITEMS 9.2 THROUGH 9.6 AND 9.18)
 - PERIMETER SEDIMENT CONTROL PRACTICES MUST BE INSTALLED BEFORE ANY UPGRADIENT LAND-DISTURBING ACTIVITIES BEGIN AND REMAIN IN PLACE UNTIL PERMANENT COVER HAS BEEN ESTABLISHED.
 - c. IF SEDIMENT CONTROL PRACTICES HAVE BEEN ADJUSTED OR REMOVED TO ACCOMMODATE SHORT-TERM ACTIVITIES (SUCH AS CLEARING, GRUBBING, OR PASSAGE OF VEHICLES), THE CONTROLS MUST BE RE-INSTALLED IMMEDIATELY AFTER THE SHORT-TERM ACTIVITY HAS BEEN COMPLETED. SEDIMENT CONTROL PRACTICES MUST BE RE-INSTALLED BEFORE THE NEXT PRECIPITATION EVENT, EVEN IF THE SHORT-TERM ACTIVITY IS NOT COMPLETE.
 - d. IF THE DOWNGRADIENT SEDIMENT CONTROLS ARE OVERLOADED (BASED ON FREQUENT FAILURE OR EXCESSIVE MAINTENANCE REQUIREMENT), INSTALL ADDITIONAL UPGRADIENT SEDIMENT CONTROL PRACTICES OR REDUNDANT BMPS TO ELIMINATE THE OVERLOADING AND AMEND THE SWPPP TO IDENTIFY THESE ADDITIONAL PRACTICES
 - e. ANY SEDIMENT CONTROL MADE OF SOIL MUST BE TEMPORARILY OR PERMANENTLY STABILIZED WITHIN 24 HOURS.

- 2. SOIL STOCKPILE PERIMETER CONTROLS: TEMPORARY SOIL STOCKPILES WILL BE SURROUNDED BY: SILT FENCE BIOROLLS, OTHER EFFECTIVE SEDIMENT CONTROLS PRIOR TO INITIATION OF STOCKPILING AND WILL NOT BE PLACED IN ANY NATURAL BUFFERS OR SURFACE WATERS (CSW PERMIT ITEMS 9.9 AND 9.10)
- 3. STORM DRAIN INLET PROTECTION: (CSW PERMIT ITEMS 9.7 AND 9.8)IF STORM DRAINS ARE PRESENT. INLET PROTECTION BMPS WILL BE INSTALLED AROUND ALL STORM DRAIN INLETS DOWNGRADIENT OF CONSTRUCTION
- a. NOT APPLICABLE; STORM DRAIN INLETS ARE NOT PRESENT AT THE PROJECT
- 4. VEHICLE TRACKING BMPS: (CSW PERMIT ITEMS 9.11 AND 9.12)
 - a. WILL BE INSTALLED TO MINIMIZE THE TRACKING OUT OF SEDIMENT FROM THE CONSTRUCTION AREA. STREET SWEEPING WILL BE USED, IN ADDITION TO VEHICLE TRACKING BMPS, IF VEHICLE TRACKING BMPS ALONE ARE NOT ADEQUATE TO PREVENT SEDIMENT TRACKING.
- 5. PROTECTION OF INFILTRATION AREAS: NOT APPLICABLE; NO INFILTRATION OR FILTRATION AREAS ARE PLANNED AS PART OF THE PROJECT. (CSW PERMIT ITEMS 16.4 AND 16.5)
- MINIMIZATION OF SOIL COMPACTION AND PRESERVATION OF TOPSOIL: SOIL COMPACTION WILL BE MINIMIZED AND TOPSOIL WILL BE PRESERVED WHERE POSSIBLE. (CSW PERMIT ITEMS 5.24, 9.14, AND 9.15)
- 7. DIRECT DISCHARGE TO VEGETATED AREAS: (CSW PERMIT ITEM 9.16)
 - a. DISCHARGES FROM BMPS WILL BE DIRECTED TO VEGETATED AREAS OF THE SITE (INCLUDING ANY NATURAL BUFFERS) IN ORDER TO INCREASE SEDIMENT REMOVAL AND MAXIMIZE STORMWATER INFILTRATION, IF EROSION IS NOTED TO OCCUR AS THE RESULT OF SUCH A DISCHARGE, VELOCITY DISSIPATION BMPS WILL BE CONSIDERED AND INSTALLED AS NECESSARY TO PREVENT EROSION.
- 8. BUFFER ZONE OR REDUNDANT SEDIMENT CONTROLS TO PROTECT SURFACE WATERS: A 50-FOOT NATURAL BUFFER IS REQUIRED BETWEEN THE PROJECT'S SOIL DISTURBANCE AND A SURFACE WATER. ALTERNATIVELY, REDUNDANT SEDIMENT CONTROLS MUST BE PLACED IF A BUFFER IS INFEASIBLE. (CSW PERMIT ITEM 5.13 AND 9.17)
 - a. IN WETLANDS AND NON-SPECIAL WATERS, A 50-FOOT NATURAL BUFFER WILL BE PRESERVED. WHEN A SURFACE WATER IS LOCATED WITHIN 50 FEET OF THE PROJECT'S EARTH DISTURBANCES AND STORMWATER FLOWS TO THE SURFACE WATER, OR WHEN A BUFFER IS INFEASIBLE, REDUNDANT SEDIMENT CONTROLS WILL BE PROVIDED. REDUNDANT PERIMETER CONTROLS WILL BE INSTALLED AT LEAST 5 FEET APART UNLESS LIMITED BY LACK OF AVAILABLE SPACE
- 9. IF SEDIMENTATION TREATMENT CHEMICALS (E.G., POLYMERS, FLOCCULANTS, ETC.) ARE TO BE USED ON THE PROJECT, THEY MUST BE USED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICES, DOSING SPECIFICATIONS, AND SEDIMENT REMOVAL DESIGN SPECIFICATIONS PROVIDED BY THE MANUFACTURER OR SUPPLIER. CONVENTIONAL EROSION AND SEDIMENT CONTROLS MUST BE PLACED PRIOR TO CHEMICAL ADDITION AND MUST DIRECT TREATED STORMWATER TO A SEDIMENT CONTROL SYSTEM FOR FILTRATION OR SETTLEMENT OF THE FLOC PRIOR TO DISCHARGE. (CSW PERMIT ITEMS 5.6, 5.13, 5.14, 9.13, AND 23.10 AND SECTION 14)
- 10. TEMPORARY SEDIMENT BASIN(S): A TEMPORARY SEDIMENT BASIN IS REQUIRED WHEN 10 OR MORE ACRES DRAIN TO A COMMON LOCATION OR WHEN 5 OR MORE ACRES DRAIN TO A COMMON LOCATION IF THE SITE IS WITHIN 1 MILE OF A SPECIAL OR IMPAIRED WATER. (CSW PERMIT ITEMS 5.6, 9.13, AND 23.10 AND SECTION 14)

NOT APPLICABLE; THE PROJECT WILL NOT HAVE 10 OR MORE ACRES DRAINING TO A COMMON LOCATION.

4.3 DEWATERING AND BASIN DRAINING: (CSW PERMIT ITEM 11.9 AND SECTION 10)

a. DEWATERING AND BASIN DRAINING DISCHARGES MUST NOT CAUSE NUISANCE CONDITIONS IN SURFACE WATERS. IF NUISANCE CONDITIONS RESULT FROM THE DISCHARGE, DEWATERING MUST CEASE IMMEDIATELY AND CORRECTIVE ACTIONS MUST OCCUR BEFORE DEWATERING IS RESUMED. A FILTER BAG WILL BE USED TO TREAT/DISPOSE OF TURBID OR SEDIMENT-LADEN WATER RESULTING FROM DEWATERING OR BASIN DRAINING RIPRAP OR EQUIVALENT WILL BE USED TO PREVENT EROSION OR SCOUR OF DISCHARGE POINTS. THE DISCHARGE MUST BE VISUALLY CHECKED AND PHOTOGRAPHED AT THE BEGINNING AND AT LEAST ONCE EVERY 24 HOURS OF OPERATION TO ENSURE ADEQUATE TREATMENT HAS BEEN OBTAINED AND NUISANCE

4.4 BMP DESIGN FACTORS: THE FOLLOWING BMP DESIGN FACTORS HAVE BEEN CONSIDERED IN DESIGNING THE TEMPORARY EROSION PREVENTION AND SEDIMENT CONTROL BMPS:

- 1. EXPECTED AMOUNT, FREQUENCY, INTENSITY, AND DURATION OF PRECIPITATION:
- a. NORMAL ANNUAL PRECIPITATION: 33.45 INCHES
- b. NORMAL WETTEST MONTH: JUNE (4.87 INCHES)
- [BASED ON NATIONAL CLIMATIC DATA CENTER CLIMATE (NCDC) NORMALS (1981-2010) FOR ST. PAUL, MN]
- c. 1-YR, 24-HR STORM EVENT: 2.45 INCHES
- d. 2-YR, 24-HOUR STORM EVENT: 2.81 INCHES

[BASED ON NOAA ATLAS 14 POINT PRECIPITATION FREQUENCY ESTIMATES FOR THE PROJECT COORDINATES] 2. NATURE OF STORMWATER RUNOFF AND RUN-ON AT THE SITE, INCLUDING FACTORS SUCH AS EXPECTED FLOW FROM

- IMPERVIOUS SURFACES, SLOPES, AND SITE DRAINAGE FEATURES: STORMWATER PRE- AND POST-CONSTRUCTION IS PRIMARILY VIA OVERLAND SHEET FLOW. 3. STORMWATER VOLUME, VELOCITY, AND PEAK FLOW RATES TO MINIMIZE DISCHARGE OF POLLUTANTS IN
- STORMWATER AND TO MINIMIZE CHANNEL AND STREAMBANK EROSION AND SCOUR IN THE IMMEDIATE VICINITY OF DISCHARGE POINTS: EROSION AND SCOURING IS NOT ANTICIPATED SINCE STORMWATER CONTROL WILL BE THE SAME PRE- AND POST-CONSTRUCTION. 4. RANGE OF SOIL PARTICLE SIZES EXPECTED TO BE PRESENT: SOIL PRESENT AT THE SITE IS MOSTLY SILTY SAND FILL MATERIAL. REFER TO FIGURE #1 (SEE SHEET C-204) FOR SOIL TYPES PRESENT AT THE PROJECT SITE.
- 4.5 BMP QUANTITIES; ANTICIPATED EROSION PREVENTION AND SEDIMENT CONTROL BMP QUANTITIES NEEDED FOR THE LIFE OF THE PROJECT INCLUDE: 241 LINEAR FEET OF PERIMETER CONTROL COMPOST LOGS, 1,134 SQUARE FEET OF EROSION CONTROL BLANKET, AND 0.03 ACRES OF SEEDING. (CSW PERMIT ITEM 5.7)

PRELIMINARY DRAFT NOT FOR CONSTRUCTION

G-02



(SEE PAGE 2 OF 2)

SHEET NUMBER G-01, C-01

C-01

C-01

C-02

G-04

LAKE WABASSO OUTLET REPLACEMENT 2362154000 SHOREVIEW, MINNESOTA STORMWATER POLLUTION PREVENTION PLAN SHEET 1 OF 2

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.

SIGNATURE __

__LICENSE#

A PERMANENT STORMWATER MANAGEMENT SYSTEM IS REQUIRED IF THE PROJECT RESULTS IN ONE ACRE OR MORE OF NEW IMPERVIOUS SURFACES OR RESULTS IN A NET INCREASE OF ONE OR MORE ACRES OF CUMULATIVE NEW IMPERVIOUS SURFACES IN TOTAL OR IF THE PROJECT IS PART OF A LARGER PLAN OF DEVELOPMENT. (CSW PERMIT ITEM 15.3)

5.1 A WATER QUALITY VOLUME OF ONE INCH OF RUNOFF FROM THE NET INCREASE IN CUMULATIVE NEW IMPERVIOUS SURFACES CREATED BY THE PROJECT MUST BE RETAINED ON-SITE THROUGH VOLUME REDUCTION PRACTICES (E.G., INFILTRATION OR OTHER) UNLESS PROHIBITED DUE TO ONE OF THE REASONS IN PERMIT ITEMS 16.14 THROUGH 16.21. IF TWO WET SEDIMENT BASINS WILL BE CONSTRUCTED TO MEET THE PERMANENT STORMWATER TREATMENT REQUIREMENTS. (CSW PERMIT ITEMS 5.15, 16.4 TUPO IDEA 15.0 AND 23.14).

5.2 DESIGN PARAMETERS FOR THE PLANNED PERMANENT STORMWATER TREATMENT SYSTEM, INCLUDING VOLUME CALCULATIONS, DISCHARGE RATE CALCULATION, CONSTRUCTION DETAILS INCLUDING BASIN DEPTH, OUTLET CONFIGURATIONS, LOCATION, DESIGN OF PRE-TREATMENT DEVICES AND TIMING FOR INSTALLATION ARE IN THE STORMWATER MODELING SUMMARY. (CSW PERMIT ITEMS 5.6 AND 5.25 AND SECTIONS 16 THROUGH 19)

5.3 FOR INFILTRATION SYSTEMS, PROVIDE AT LEAST ONE SOIL BORING, TEST PIT, OR INFILTROMETER TEST IN THE LOCATION OF THE INFILTRATION PRACTICE TO DETERMINE INFILTRATION RATES AND TO ENSURE A MINIMUM OF 3 FEET OF SEPARATION FROM THE SEASONALLY SATURATED SOILS (OR FROM BEDROCK) AND THE BOTTOM OF THE PROPOSED INFILTRATION SYSTEM. (CSW PERMIT ITEMS 16.10 AND 16.12)

NOT APPLICABLE; INFILTRATION SYSTEMS ARE NOT PART OF THIS PROJECT.

 $\underline{5.4}$ THIS IS NOT A LINEAR PROJECT WITH LACK OF RIGHT OR WAY. (CSW PERMIT ITEM 15.9)

5.5 A RIGHT OF WAY FOR THE STORMWATER TREATMENT SYSTEMS DID NOT NEED TO BE OBTAINED. (CSW PERMIT ITEMS 5.13 AND 15.9)

5.6 THIS PROJECT DOES NOT DISCHARGE TO A TROUT STREAM, (OR A TRIBUTARY TO A TROUT STREAM) NO ADDITIONAL CONTROLS REQUIRED. (CSW PERMIT ITEM 23.12)

6.0 INSPECTION AND MAINTENANCE ACTIVITIES:

6.1 PERSONS WITH REQUIRED TRAINING: TRAINED INDIVIDUALS INCLUDE THOSE PARTIES RESPONSIBLE FOR INSTALLING, SUPERVISING, REPAIRING, INSPECTING, AND MAINTAINING EROSION PREVENTION AND SEDIMENT CONTROL BMPS AT THE SITE. TRAINED INDIVIDUALS ARE ALSO RESPONSIBLE FOR IMPLEMENTATION OF THE SWPP AND COMPLIANCE WITH THE GENERAL PERMIT UNTIL THE CONSTRUCTION ACTIVITIES ARE COMPLETE, PERMANENT COVER HAS BEEN ESTABLISHED, AND A NOTICE OF TERMINATION (NOT) HAS BEEN SUBMITTED. (CSW PERMIT ITEMS 5.20, 5.21, AND 11.9 AND SECTION 21)

THESE INDIVIDUALS WILL BE TRAINED IN ACCORDANCE WITH THE REQUIREMENTS OF THE GENERAL PERMIT, INCLUDING THE REQUIREMENT THAT THE CONTENT AND EXTENT OF TRAINING WILL BE COMMENSURATE WITH THE INDIVIDUAL'S JOB DUTIES AND RESPONSIBILITIES. THESE INDIVIDUALS WILL BE PROVIDED BY THE CONTRACTOR AND WILL BE RESPONSIBLE FOR EROSION CONTROL SUPERVISION, INSPECTION, AND AMENDING OF SWPPP PROVISIONS.

BELOW IS A LIST OF PEOPLE RESPONSIBLE FOR THIS PROJECT WHO ARE KNOWLEDGEABLE AND EXPERIENCED IN THE APPLICATION OF EROSION PREVENTION AND SEDIMENT CONTROL BMPS.

TRAINED INDIVIDUAL ERIC FITZGERALD	RESPONSIBILITY PREPARATION OF THE SWPPP	TRAINING ENTITY* UNIVERSITY OF MINNESOTA	TRAINING DATE MAY 2025
	OVERSIGHT OF SWPPP IMPLEMENTATION, REVISION, AND AMENDMENT PERFORMANCE OF SWPPP INSPECTIO		
	PERFORMANCE OR SUPERVISION OF INSTALLATION, MAINTENANCE, AND REPAIR OF RMPS		

*TRAINING DOCUMENTATION AVAILABLE UPON REQUEST.

6.2 FREQUENCY OF INSPECTIONS: A TRAINED PERSON ASSIGNED BY CONTRACTOR PROVIDED EROSION CONTROL SUPERVISOR WILL ROUTINELY INSPECT THE ENTIRE CONSTRUCTION SITE. (CSW PERMIT ITEMS 11.2, 11.10, AND 23.13)

- AT LEAST ONCE EVERY 7 DAYS DURING ACTIVE CONSTRUCTION
- WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES IN 24 HOURS

INSPECTION FREQUENCY MAY BE ADJUSTED UNDER THE FOLLOWING CIRCUMSTANCES:

- WHERE PARTS OF THE CONSTRUCTION AREAS HAVE PERMANENT COVER, BUT WORK REMAINS ON OTHER PARTS OF THE SITE, INSPECTIONS OF THE AREAS WITH PERMANENT COVER MAY BE REDUCED TO ONCE PER MONTH.
- WHERE CONSTRUCTION AREAS HAVE PERMANENT COVER AND NO CONSTRUCTION ACTIVITY IS OCCURRING ON THE SITE, INSPECTIONS CAN BE REDUCED TO ONCE PER MONTH AND, AFTER 12 MONTHS, MAY BE SUSPENDED COMPLETELY UNTIL CONSTRUCTION ACTIVITY RESUMES.
- WHERE CONSTRUCTION ACTIVITY HAS BEEN SUSPENDED DUE TO FROZEN GROUND CONDITIONS, THE INSPECTIONS MAY BE SUSPENDED. THE REQUIRED INSPECTIONS AND MAINTENANCE SCHEDULE MUST BEGIN WITHIN 24 HOURS AFTER RUNOFF OCCURS AT THE SITE OR UPON RESUMING CONSTRUCTION, WHICHEVER COMES FIRST.

6.3 INSPECTION REQUIREMENTS; EACH CONSTRUCTION STORMWATER SITE INSPECTION WILL INCLUDE INSPECTION OF THE FOLLOWING AREAS: (CSW PERMIT ITEMS 11.3 THROUGH 11.8)

- ALL EROSION PREVENTION AND SEDIMENT CONTROL BMPS AND POLLUTION PREVENTION MANAGEMENT MEASURES
- SURFACE WATERS FOR EVIDENCE OF EROSION AND SEDIMENT DEPOSITION
- CONSTRUCTION SITE VEHICLE EXIT LOCATIONS FOR EVIDENCE OF OFFSITE SEDIMENT TRACKING
- STREETS AND OTHER AREAS ADJACENT TO THE PROJECT FOR EVIDENCE OF OFF SITE ACCUMULATIONS OF SEDIMENT

6.4 MAINTENANCE REQUIREMENTS: MAINTENANCE OF THE FOLLOWING AREAS AND BMPS WILL BE PERFORMED AS FOLLOWS: (CSW PERMIT ITEMS 11.3 THROUGH 11.8)

- NONFUNCTIONAL BMPS WILL BE REPAIRED, REPLACED, OR SUPPLEMENTED WITH FUNCTIONAL BMPS BY THE END OF THE NEXT BUSINESS DAY AFTER DISCOVERY OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS.
- PERIMETER CONTROL DEVICES WILL BE REPAIRED, REPLACED, OR SUPPLEMENTED WHEN THEY BECOME NONFUNCTIONAL OR THE SEDIMENT REACHES 1/2 OF THE HEIGHT OF THE DEVICE.

- TEMPORARY AND PERMANENT SEDIMENTATION BASINS WILL BE DRAINED AND THE SEDIMENT REMOVED WHEN THE DEPTH OF SEDIMENT COLLECTED IN THE BASIN REACHES 1/2 THE STORAGE VOLUME.
- DELTAS AND SEDIMENT DEPOSITED IN SURFACE WATERS WILL BE REMOVED, AND THE AREAS WHERE SEDIMENT REMOVAL RESULTS IN EXPOSED SOIL WILL BE RE-STABILIZED. THE REMOVAL AND STABILIZATION WILL BE COMPLETED WITHIN 7 CALENDAR DAYS OF DISCOVERY UNLESS PRECLUDED BY LEGAL, REGULATORY, OR PHYSICAL ACCESS CONSTRAINTS, IF PRECLUDED DUE TO ACCESS CONSTRAINTS, REASONABLE EFFORTS TO OBTAIN ACCESS WILL BE USED. REMOVAL AND STABILIZATION WILL TAKE PLACE WITHIN 7 CALENDAR DAYS OF OBTAINING ACCESS.
- TRACKED SEDIMENT ON PAVED SURFACES WILL BE REMOVED WITHIN 1 CALENDAR DAY OF DISCOVERY
- AREAS UNDERGOING STABILIZATION WILL BE RESTABILIZED AS NECESSARY TO ACHIEVE REQUIRED COVER.

6.5 RECORDKEEPING REQUIREMENTS: (CSW PERMIT ITEMS 11.11 AND 24.5 AND SECTIONS 6 AND 20)

- 1. ALL INSPECTIONS AND MAINTENANCE ACTIVITIES WILL BE RECORDED IN WRITING WITHIN 24 HOURS OF BEING CONDUCTED AND THESE RECORDS WILL BE RETAINED WITH THE SWPPP, RECORDS OF EACH INSPECTION AND MAINTENANCE ACTIVITY WILL INCLUDE THE DATE AND TIME; NAME OF INSPECTOR(S); FINDINGS OF INSPECTIONS; CORRECTIVE ACTIONS (INCLUDING DATES, TIMES, AND PARTY COMPLETING MAINTENANCE ACTIVITIES); AND DATE OF ALL RAINFALL EVENTS GREATER THAN 0.5 INCHES IN 24 HOURS AND THE AMOUNT OF RAINFALL FOR EACH EVENT.
 - a. ALL RAINFALL MEASUREMENTS MUST BE OBTAINED BY EITHER A PROPERLY MAINTAINED RAIN GAUGE INSTALLED ONSITE, A WEATHER STATION WITHIN ONE (1) MILE OF THE SITE LOCATION, OR A WEATHER REPORTING SYSTEM THAT PROVIDES SITE SPECIFIC RAINFALL DATA FROM RADAR SUMMARIES.
 - b. IF ANY DISCHARGE IS OBSERVED DURING THE INSPECTION, THE LOCATION AND APPEARANCE OF THE DISCHARGE (I.E., COLOR, ODOR, SETTLED OR SUSPENDED SOLIDS, OIL SHEEN, AND OTHER OBVIOUS INDICATORS OF POLLUTANTS) WILL BE DOCUMENTED AND A PHOTOGRAPH WILL BE TAKEN.
 - c. IF DEWATERING ACTIVITIES ARE OCCURRING, INCLUDE PHOTOGRAPHS OF DEWATERING ACTIVITIES AND DOCUMENTATION OF NUISANCE CONDITIONS RESULTING FROM DEWATERING ACTIVITIES.
- THE SWPPP WILL BE AMENDED TO INCLUDE ADDITIONAL OR MODIFIED BMPS TO CORRECT PROBLEMS OR ADDRESS SITUATIONS WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, MAINTENANCE, WEATHER, OR SEASONAL CONDITIONS THAT HAS A SIGNIFICANT EFFECT ON THE DISCHARGE OF POLLUTANTS TO SURFACE WATERS OR GROUNDWATER
 - a. THE SWPPP WILL BE AMENDED WHEN INSPECTIONS OR INVESTIGATIONS BY CONTRACTOR PROVIDED EROSION CONTROL SUPERVISOR INDICATE THAT THE SWPPP IS NOT EFFECTIVE IN ELIMINATING OR MINIMIZING THE DISCHARGE OF POLLUTANTS TO SURFACE WATERS OR GROUNDWATER; THE DISCHARGES ARE CAUSING WATER QUALITY STANDARD EXCEEDANCES; OR THE SWPPP IS NOT CONSISTENT WITH A USEPA APPROVED TMDL. THESE CHANGES REQUIRE APPROVAL FROM SITE OWNER OR OPERATOR.
 - ANY AMENDMENTS TO THE SWPPP PROPOSED AS A RESULT OF THE INSPECTION WILL BE DOCUMENTED AS REQUIRED WITHIN 7 CALENDAR DAYS.
 - c. AMENDMENTS WILL BE COMPLETED BY AN APPROPRIATELY TRAINED INDIVIDUAL. CHANGES INVOLVING THE USE OF A LESS STRINGENT BMP WILL INCLUDE A JUSTIFICATION DESCRIBING HOW THE REPLACEMENT BMP IS EFFECTIVE FOR THE STEE CHARACTERISTICS.
- ECORDS RETENTION: THE SWPPP, INCLUDING ALL CHANGES TO IT, AND INSPECTION AND MAINTENANCE RECORDS WILL BE KEPT AT THE SITE DURING CONSTRUCTION BY THE PERMITTEE WHO HAS OPERATIONAL CONTROL OF THE SITE. THE SWPPP CAN BE KEPT IN EITHER A FIELD OFFICE OR IN AN ON SITE VEHICLE DURING NORMAL WORKING HOURS.
- 4. RECORD AVAILABILITY: THE PERMITTEES WILL MAKE THE SWPPP, INCLUDING INSPECTION REPORTS, MAINTENANCE RECORDS, AND TRAINING RECORDS, AVAILABLE TO FEDERAL, STATE, AND LOCAL OFFICIALS WITHIN THREE DAYS UPON REQUEST FOR THE DURATION OF THE PERMIT COVERAGE AND FOR THREE YEARS FOLLOWING THE NOTICE OF TERMINATION.

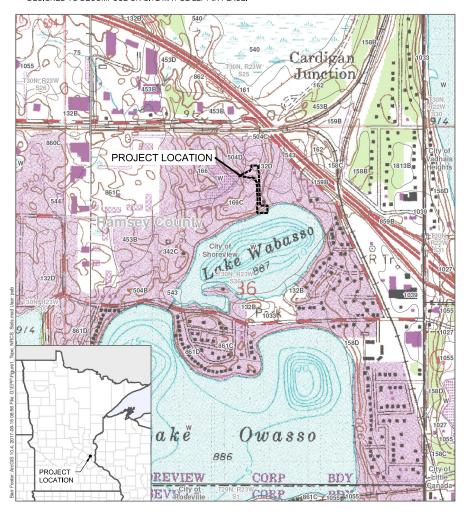
7.0 POLLUTION PREVENTION MEASURES:

- ANY CONSTRUCTION PRODUCTS AND LANDSCAPE MATERIALS THAT HAVE THE POTENTIAL TO LEACH POLLUTANTS WILL BE STORED UNDER COVER (E.G., PLASTIC SHEETING OR TEMPORARY ROOFS) TO PREVENT DISCHARGE OF POLLUTANTS THROUGH MINIMIZATION OF CONTACT WITH STORMWATER. STORAGE OF SUCH MATERIALS WITHIN THE PROJECT AREA WILL BE MINIMIZED TO THE EXTENT POSSIBLE. (CSW PERMIT ITEM 12.2)
- PESTICIDES, FERTILIZERS, AND TREATMENT CHEMICALS WILL BE STORED UNDER COVER (E.G., PLASTIC SHEETING, TEMPORARY ROOFS, WITHIN A BUILDING, OR IN WEATHER-PROOF CONTAINERS) TO PREVENT DISCHARGE OF POLLUTANTS THROUGH MINIMIZATION OF CONTACT WITH STORMWATER. STORAGE OF SUCH MATERIALS WITHIN THE PROJECT AREA WILL BE MINIMIZED TO THE EXTENT POSSIBLE. (CSW PERMIT ITEM 12.3)
- 3. HAZARDOUS MATERIALS AND TOXIC WASTE (E.G., OIL, DIESEL FUEL, GASOLINE, HYDRAULIC FLUIDS, PAINT SOLVENTS, PETROLEUM-BASED PRODUCTS, WOOD PRESERVATIVES, ADDITIVES, CURING COMPOUNDS, AND ACIDS) WILL BE STORED AND DISPOSED OF IN COMPLIANCE WITH MINNESOTA RULES CHAPTER 7045, INCLUDING SECONDARY CONTAINMENT (AS APPLICABLE), HAZARDOUS MATERIALS WILL BE PROPERLY STORED IN SEALED CONTAINERS TO PREVENT SPILLS, LEAKS, OR OTHER DISCHARGES AND PREVENT PRECIPITATION FROM FALLING ONTO THE CONTAINERS OR STORED HAZARDOUS MATERIALS. (CSW PERMIT ITEMS 2.3 AND 12.4)
- 4. SOLID WASTE WILL BE COLLECTED, STORED, AND DISPOSED OF PROPERLY IN COMPLIANCE WITH MINNESOTA RULES CHAPTER 7035. THIS INCLUDES STORAGE WITHIN COVERED TRASH CONTAINERS AND DAILY REMOVAL OF LITTER AND DEBRIS. STORAGE OF SOLID WASTE WITHIN THE PROJECT AREA WILL BE MINIMIZED TO THE EXTENT POSSIBLE. (CSW PERMIT ITEM 12.5)
- 5. PORTABLE TOILETS, IF PRESENT WILL BE LOCATED AWAY FROM SURFACE WATERS AND POSITIONED AND SECURED TO THE GROUND SO THEY WILL NOT BE TIPPED OR KNOCKED OVER, SANITARY WASTE WILL BE DISPOSED OF IN ACCORDANCE WITH MINNESOTA RULES, CHAPTER 7041. PORTABLE TOILETS WILL BE PERIODICALLY EMPTIED AND THE WASTE HAULED OFF-SITE BY A LICENSED HAULER. (CSW PERMIT ITEM 12.6)
- 6. VEHICLE FUELING WILL ONLY OCCUR IN DESIGNATED AREAS. SPILL KITS SIZED APPROPRIATELY FOR THE AMOUNT OF REFUELING TAKING PLACE WILL BE LOCATED. SPILL KITS WILL BE CLEARLY LABELED AND CONTAIN MATERIALS TO ASSIST IN SPILL CLEANUP INCLUDING ABSORBENT PADS, BOOMS FOR CONTAINING SPILLS, AND HEAVY-DUTY PROTECTIVE GLOVES. SPILLS WILL BE REPORTED TO THE MINNESOTA DUTY OFFICER AS REQUIRED BY MINNESOTA STATUTES, SECTION 115.061. (CSW PERMIT ITEMS 2.3 AND 12.7)
 - a. ANY FUEL TANKS BROUGHT ON-SITE WILL HAVE PROPERLY SIZED CONTAINMENT AND WILL NOT BE TOPPED OFF TO AVOID SPILLS FROM OVERFILLING. FUEL TANKS WILL MEET INDUSTRY STANDARDS (DESIGNED TO HOLD FUEL TYPE, PROPERLY MAINTAINED, NOT ILLEGALLY MODIFIED, NOT MISSING LEAK INDICATOR FLOATS FOR DOUBLE WALLED TANKS, SIGHT GAUGES NOT USED, ETC.) OR BE REMOVED FROM THE WORK AREA.
 - b. GUIDELINES FOR SPILL PREVENTION AND RESPONSE INCLUDE:
 - TAKE REASONABLE STEPS TO PREVENT THE DISCHARGE OF SPILLED OR LEAKED CHEMICALS, INCLUDING FUEL, FROM ANY AREA WHERE CHEMICALS OR FUEL WILL BE LOADED OR UNLOADED, INCLUDING THE USE OF DRIP PANS OR ABSORBENTS UNLESS INFEASIBLE;
 - PERFORM REGULAR PREVENTATIVE MAINTENANCE ON TANKS AND FUEL LINES;
 - INSPECT PUMPS, CYLINDERS, HOSES, VALVES, AND OTHER MECHANICAL EQUIPMENT ON-SITE FOR DAMAGE OR DETERIORATION;
 - DO NOT WASH OR RINSE FUELING AREAS WITH WATER;
 - MAINTAIN ADEQUATE SUPPLIES TO CLEAN UP DISCHARGED MATERIALS AND PROVIDE AN APPROPRIATE DISPOSAL METHOD FOR RECOVERED SPILLED MATERIALS;
 - REPORT AND CLEAN UP SPILLS IMMEDIATELY AS REQUIRED BY MINNESOTA STATUTES, SECTION 115.061, USING DRY CLEAN UP MEASURES WHERE POSSIBLE; AND
 - MAINTAIN COPIES OF SAFETY DATA SHEETS (SDSS) FOR HAZARDOUS MATERIALS ON-SITE IN LOCATIONS READILY AVAILABLE TO EMERGENCY RESPONDERS.

- 7. IF VEHICLE AND EQUIPMENT WASHING IS NECESSARY, A VEHICLE WASH STATION WILL BE LOCATED IN A DESIGNATED AREA. RUNOFF FROM THE WASHING AREA WILL BE CONTAINED IN A SEDIMENT BASIN AND WASTE FROM THE WASHING ACTIVITY WILL BE PROPERLY DISPOSED OF, ANY SOAPS, DETERGENTS, OR SOLVENTS WILL BE PROPERLY USED AND STORED. ANY DETERGENTS AND OTHER CLEANERS NOT PERMITTED FOR DISCHARGE WILL NOT BE USED. (CSW PERMIT ITEMS 2.3 AND 12.8)
- 8. THE PROJECT WILL NOT RESULT IN CONCRETE OR OTHER WASHOUT ACTIVITIES. IF LIQUID AND SOLID WASTES ARE GENERATED BY WASHOUT OPERATIONS (E.G., CONCRETE, STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS AND OTHER CONSTRUCTION MATERIALS), EFFECTIVE CONTAINMENT MUST BE PROVIDED. LIQUID AND SOLID WASHOUT WASTES WILL BE PREVENTED FROM CONTACTING THE GROUND AND WILL BE PROPERLY DISPOSED OF IN COMPLIANCE WITH MPCA RULES, (CSW PERMIT ITEMS 2.3 AND 12.9)

8.0 PERMANENT COVER AND PERMIT TERMINATION CONDITIONS:

- 1. THE AREAS DISTURBED DURING CONSTRUCTION WILL BE STABILIZED WITH PERMANENT COVER UPON COMPLETION OF WORK. PERMANENT COVER MAY BE VEGETATIVE OR NON-VEGETATIVE, AS APPROPRIATE. ESTABLISHMENT OF PERMANENT COVER MAY INCLUDE THE FOLLOWING ACTIVITIES: ONE OR A COMBINATION OF SEEDING, MULCHING, EROSION CONTROL BLANKET, PLACEMENT OF IMPERVIOUS SURFACE FOR CAMPGROUND ROAD, (CSW PERMIT I I TEM 5.17 AND 13.2)
- 2. FOR A CONSTRUCTION-SITE TO ACHIEVE "PERMANENT COVER", THE FOLLOWING REQUIREMENTS MUST BE COMPLETED PRIOR TO TERMINATION OF PERMIT COVERAGE: (CSW PERMIT SECTIONS 4 AND 13)
 - a. ALL SOIL DISTURBING CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED AND PERMANENT COVER HAS BEEN INSTALLED OVER ALL AREAS. VEGETATIVE COVER CONSISTS OF A UNIFORM PERENNIAL VEGETATION WITH A DENSITY OF 70% OF ITS EXPECTED FINAL GROWTH. VEGETATION IS NOT REQUIRED WHERE THE FUNCTION OF A SPECIFIC AREA DICTATES NO VEGETATION (SUCH AS IMPERVIOUS SURFACES OR THE BASE OF A SAND FILTER).
 - b. ALL SEDIMENT HAS BEEN REMOVED FROM CONVEYANCE SYSTEMS, INCLUDING CULVERTS.
 - c. ANY ACCUMULATED SEDIMENT HAS BEEN REMOVED FROM THE PERMANENT STORMWATER TREATMENT SYSTEM, AND THE SYSTEM IS OPERATING AS DESIGNED.
- d. ALL TEMPORARY SYNTHETIC EROSION PREVENTION AND SEDIMENT CONTROL BMPS HAVE BEEN REMOVED. BMPS DESIGNED TO DECOMPOSE ON-SITE MAY BE LEFT IN PLACE.



Survey Area Status Map

Statewide SSURGO Data

County Boundary

TOPOGRAPHIC MAP WITH
SURFACE WATERS AND SOIL TYPES
Stormwater Pollution Prevention Plan
Ramsey County, Minnesota

PRELIMINARY DRAFT NOT FOR CONSTRUCTION

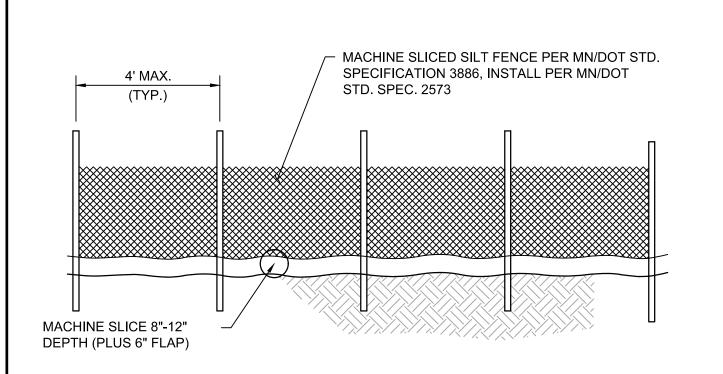
Figure 1

BARR ENGINEERING CO.
4300 MARKETPOINTE DRIVE
SUITE 200
MINDEAPOLIS, MIN 55435
MINDEAPOLIS SHOWS SHOW THE PROPERTY OF THE PROPE



LAKE WABASSO OUTLET REPLACEMENT
SHOREVIEW, MINNESOTA
STORMWATER POLLUTION PREVENTION PLAN
SHEET 2 OF 2

BARR PROJECT #
2362154000
DWG #
G-03
REV #



PLASTIC ZIP TIES (MIN. 50 LBS TENSILE STRENGTH) ON TOP 8" MIN. 3 PER POST

GRADE

GRADE

TO 12"

DEPTH (PLUS 6" FLAP)

RUNOFF FLOW DIRECTION

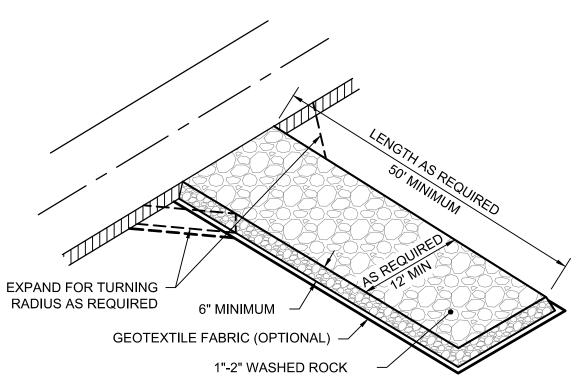
SECTION VIEW

DOWNSTREAM VIEW

<u>NOTES</u>

- 1. SILT FENCE SHALL BE INSTALLED PRIOR TO ANY GRADING WORK IN THE AREA TO BE PROTECTED AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. SILT FENCE AND ANY ACCUMULATED SEDIMENT SHALL BE REMOVED IN CONJUNCTION WITH THE FINAL GRADING AND SITE STABILIZATION.
- 2. SILT FENCE INSTALLATION AND MATERIALS SHALL MEET THE REQUIREMENTS OF MN/DOT SPECIFICATIONS 2573 AND 3886.
- 3. NO HOLES OR GAPS SHALL BE PRESENT IN/UNDER SILT FENCE. PREPARE AREA AS NEEDED TO SMOOTH SURFACE OR REMOVE DEBRIS.
- 4. WHEN SEDIMENT BUILD UP REACHES 1/3 OF FENCE HEIGHT, THE SILT FENCE SHOULD BE REMOVED OR A SECOND SILT FENCE INSTALLED UPSTREAM OF THE EXISTING FENCE AT A SUITABLE DISTANCE.
- 5. WHEN SPLICES ARE NECESSARY MAKE SPLICE AT POST ACCORDING TO SPLICE DETAIL. PLACE THE END POST OF THE SECOND FENCE INSIDE THE END POST OF THE FIRST FENCE. ROTATE BOTH POSTS TOGETHER AT LEAST 180 DEGREES TO CREATE A TIGHT SEAL WITH THE FABRIC MATERIAL. CUT THE FABRIC NEAR THE BOTTOM OF THE POSTS TO ACCOMMODATE THE 6 INCH FLAP. THEN DRIVE BOTH POSTS AND BURY THE FLAP. COMPACT BACKFILL.





NOTES

- MAINTAIN ENTRANCE THROUGHOUT THE CONSTRUCTION PERIOD AND REPAIR OR REPLACE AS REQUIRED TO PREVENT TRACKING OFFSITE.
- 2. REMOVE ENTRANCE IN CONJUNCTION WITH FINAL GRADING AND SITE STABILIZATION.



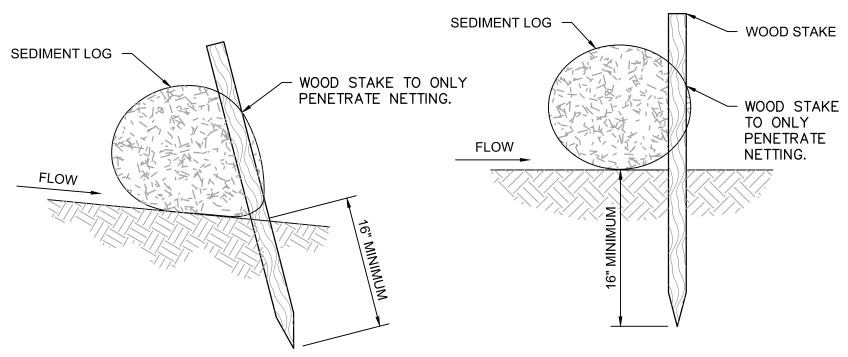
ANCHOR IN WATER 100 FT. MAX. SPACING BETWEEN ANCHORS MIN. 40 LBS FLOW **TEMPORARY FILL WORK AREA ANCHOR POINT** PLAN VIEW **TENSION CABLE OPEN WATER** WATER SURFACE (PROTECTED SIDE) GALVANIZED ANCHOR CABLE -(FOR DEPTHS >3 FT OR - CURTAIN FABRIC CURTAIN LENGTH >100 LF) 1-24 LB (MIN) **CURTAIN WEIGHT** ANCHOR @ 100' (MUST REST ON SPACING (MAX) BOTTOM) **SECTION**

NOTES:

- 1. INSTALL SILT CURTAIN PRIOR TO ANY CONSTRUCTION ACTIVITIES IN AREAS DRAINING TO OPEN WATER OR WORK IN WATER.
- 2. ANCHOR TENSION CABLE AT SHORE AT BOTH END WITH STEEL POSTS OF DIAMETER AND LENGTH SUFFICIENT TO PREVENT BENDING AND PULL-OUT.
- 3. ELIMINATE ANCHOR AND CABLE FOR WATER DEPTHS LESS THAN 3'-0" OR DISTANCE BETWEEN SHORE ANCHORS FOR TENSION CABLE OF LESS THAN 100'
- 4. CURTAIN WEIGHT SHALL BE HEAVY ENOUGH TO HOLD CURTAIN VERTICAL IN CURRENT AND WAVES TYPICAL FOR THE SITE.
- 5. SILT CURTAIN MATERIALS SHALL CONFORM TO MN/DOT SPECIFICATION 3887.
- 6. MAINTAIN SILT CURTAIN AND REPAIR OR REPLACE AS REQUIRED TO PREVENT DISCHARGE OF SEDIMENT TO PROTECTED WATER BODY.
- 7. REMOVE ANY ACCUMULATED SEDIMENT PRIOR TO REMOVAL OF SILT CURTAIN.
- 8. REMOVE SILT CURTAIN FOLLOWING SITE STABILIZATION OR AS DIRECTED BY ENGINEER.

4 DETAIL: FLOTATION SILT CURTAIN

NOT TO SCALE
SEE ALSO CITY STD. PLATE NO. 502



WOOD STAKE TO ONLY PENETRATE NETTING

OVERLAP ENDS

WOOD STAKE TO ONLY MINIMUM

OVERLAP ENDS

TOP VIEW

SIDE VIEW ON SLOPE

- 1. INSTALL SEDIMENT LOG ALONG CONTOURS (CONSTANT ELEVATION).
- 2. NO GAPS SHALL BE PRESENT UNDER SEDIMENT LOG. PREPARE AREA AS NEEDED TO SMOOTH SURFACE OR REMOVE DEBRIS.
- 3. REMOVE ACCUMULATED SEDIMENT WHEN REACHING 1/3 OF LOG HEIGHT

FRONT VIEW

4. MAINTAIN SEDIMENT LOG THROUGHOUT THE CONSTRUCTION PERIOD AND REPAIR OR REPLACED AS REQUIRED.

2 DETAIL: SEDIMENT LOG
NOT TO SCALE

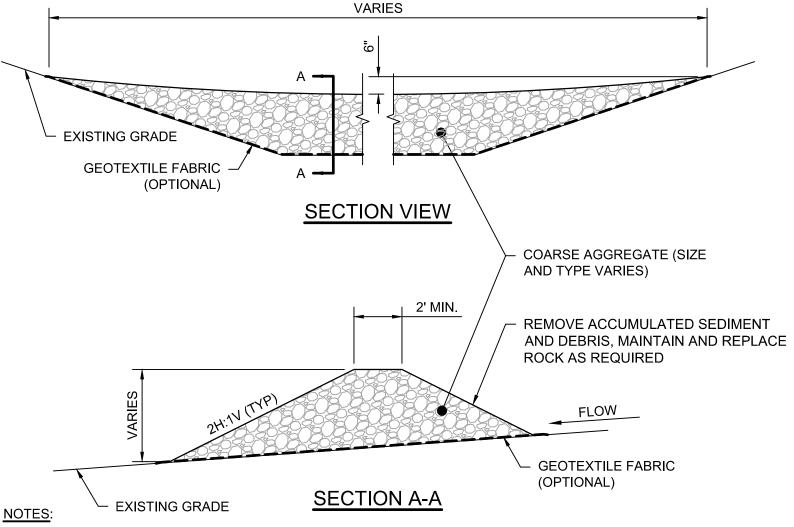
SIDE VIEW FLAT

SLOPE INSTALLATION 3B 3A 2 FLOW 6

NOTES:

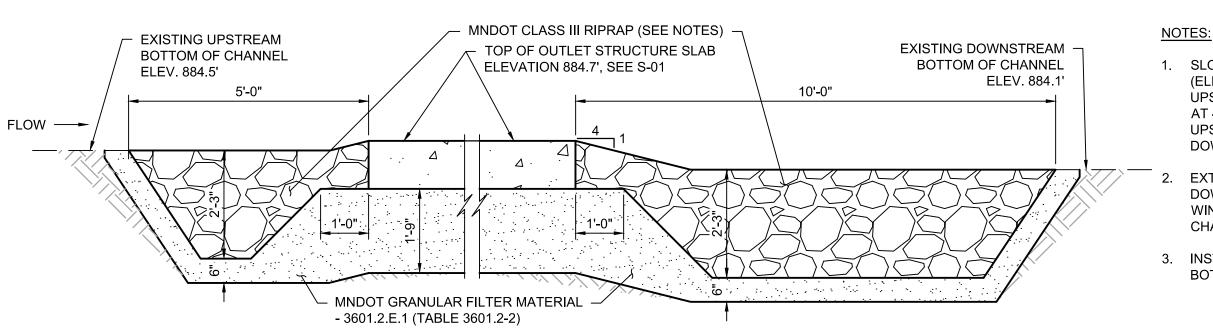
- REFER TO MANUFACTURER RECOMMENDATIONS FOR STAPLE PATTERNS FOR SLOPE INSTALLATIONS.
- 2. PREPARE SOIL BY LOOSENING TOP 1-2 INCHES AND APPLY SEED (AND FERTILIZER WHERE REQUIRED) PRIOR TO INSTALLING BLANKETS. GROUND SHOULD BE SMOOTH AND FREE OF DEBRIS.
- 3. BEGIN (A) AT THE TOP OF THE SLOPE AND ROLL THE BLANKETS DOWN OR (B) AT ONE END OF THE SLOPE AND ROLL THE BLANKETS HORIZONTALLY ACROSS THE SLOPE.
- 4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 6" OVERLAP, WITH THE UPHILL BLANKET ON TOP.
- 5. WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 6" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART.
- 6. BLANKET MATERIALS SHALL BE AS SPECIFIED OR AS APPROVED BY ENGINEER.





- AGGREGATE SIZE MAY VARY AND DEPENDING ON CHANNEL SIZE, FLOW, SEDIMENT LOAD OR OTHER SITE CONDITIONS. AGGREGATE USED SHOULD BE RELATIVELY FREE OF SEDIMENT PRIOR TO INSTALLATION.
- ROCK FILTER DIKE SHALL BE CLEANED OR REPLACED WHEN SEDIMENT BUILD UP REACHES 1/2 OF THE DIKE HEIGHT. ALTERNATIVELY A SECOND ROCK FILTER DIKE MAY BE INSTALLED DOWNSTREAM OF THE EXISTING DIKE AT A SUITABLE DISTANCE.
- ROCK FILTER DIKE SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. ROCK, GEOTEXTILE AND ANY ACCUMULATED SEDIMENT SHALL BE REMOVED IN CONJUNCTION WITH THE FINAL GRADING AND SITE STABILIZATION.





 SLOPE FROM TOP OF OUTLET STRUCTURE SLAB (ELEVATION 884.7') TO BOTTOM OF DITCH (APPROX. UPSTREAM ELEV. 884.5' & DOWNSTREAM ELEV. 884.1') AT 4H:1V SLOPE. EXTEND 5' OUT FROM SLAB ON UPSTREAM END AND 10' OUT FROM SLAB ON DOWNSTREAM END.

2. EXTEND CLASS III RIPRAP TO SIDE SLOPES TOES DOWNSTREAM OF THE OUTLET STRUCTURE WINGWALLS. REINSTALL SALVAGED RIPRAP ON CHANNEL SIDE SLOPES.

3. INSTALL MNDOT CLASS III RIPRAP ON CHANNEL BOTTOM AT 27" THICK.

7 SECTION: TYPICAL CHANNEL RIPRAP ADJACENT TO OUTLET STRUCTURE

NOT TO SCALE

PRELIMINARY DRAFT NOT FOR CONSTRUCTION

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 _____LICENSE # _____

PRINTED NAME _

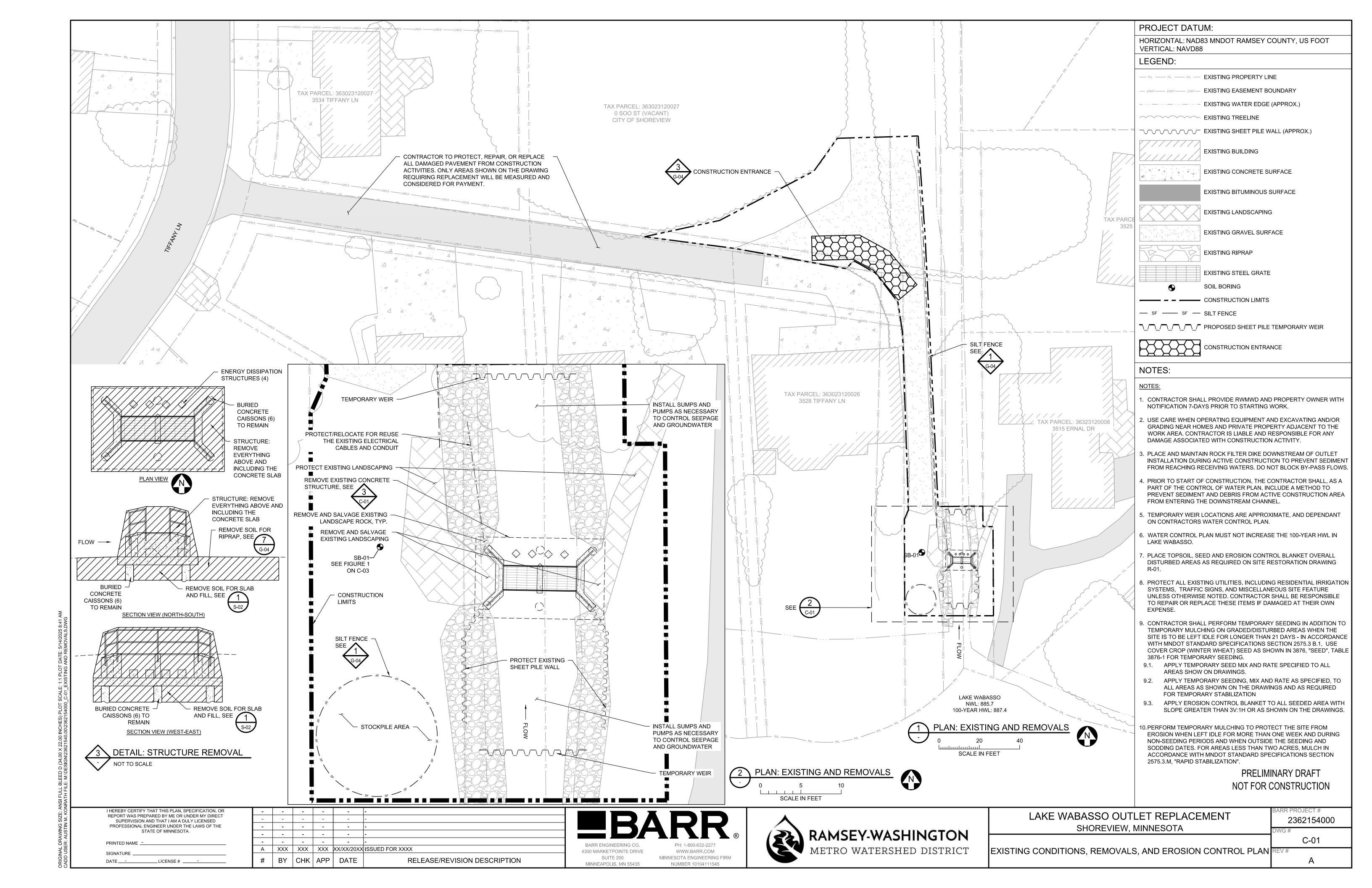
SIGNATURE _____

 BARR ENGINEERING CO.
4300 MARKETPOINTE DRIVE
SUITE 200
MINNEAPOLIS, MN 55435
MINNEAPOLIS, MN 55435
NUMBER 10104111545



LAKE WABASSO OUTLET REPLACEMENT	BARR PROJECT # 2362154000
SHOREVIEW, MINNESOTA	DWG # G-04
EROSION CONTROL DETAILS	REV#

M. KONKATH FILE: M:\DESIGN\Z36Z1540.00\Z36Z154000_G-04_EC DETAILS.DWG



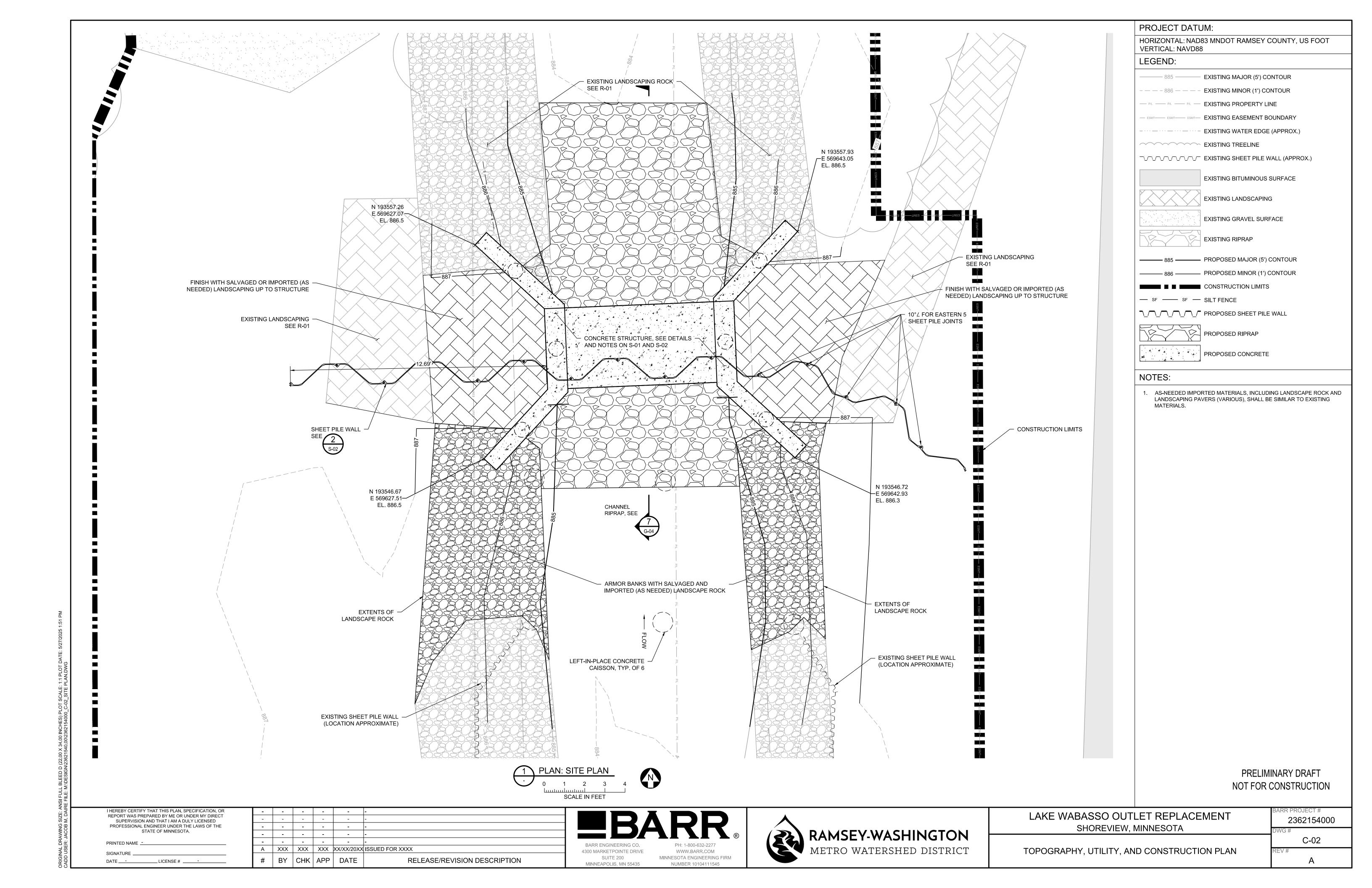


FIGURE 1. SB-01 SOIL BORING LOG.

PRELIMINARY DRAFT NOT FOR CONSTRUCTION

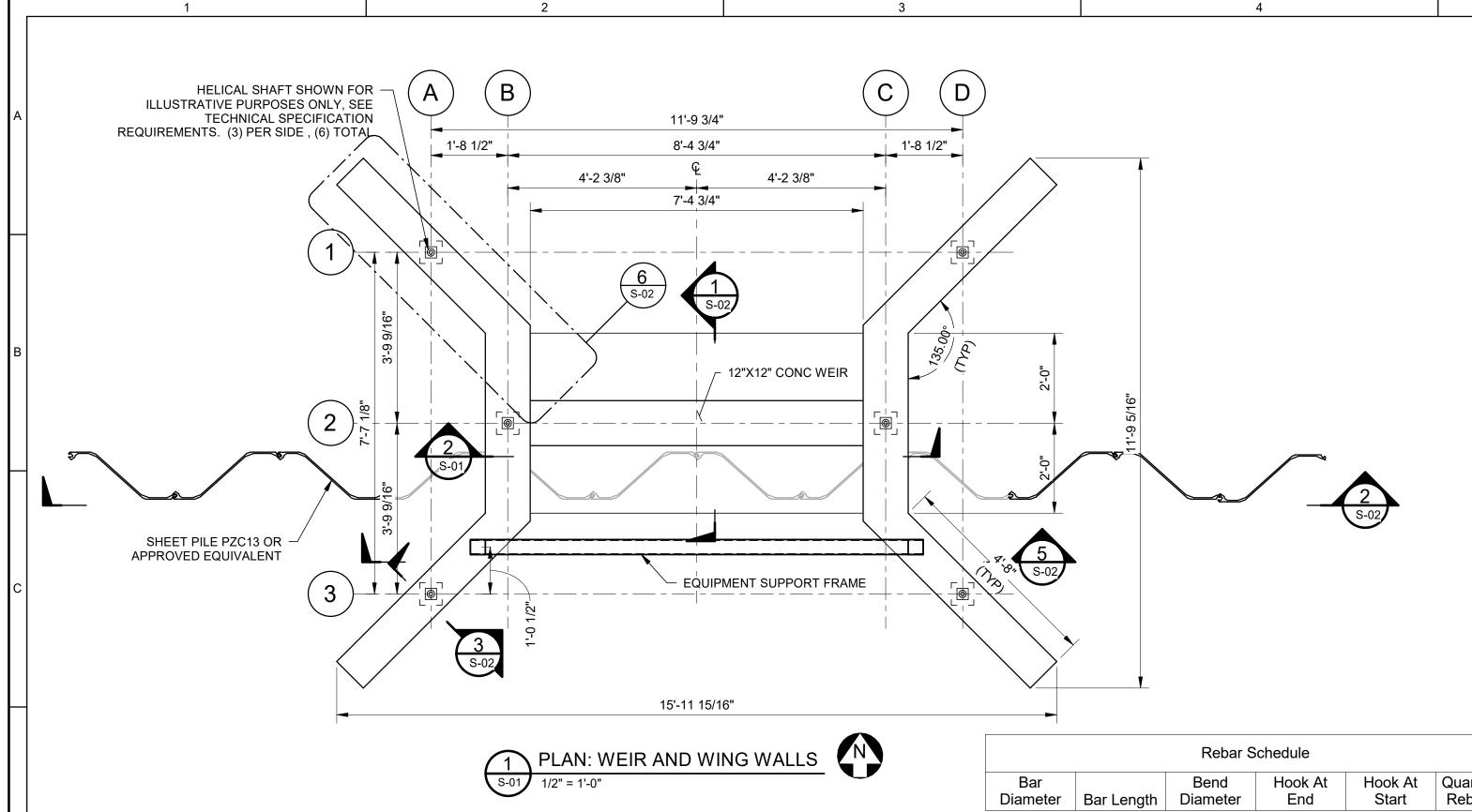
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINTED NAME. DATE _____LICENSE # _____ A XXX XXX XXX XX/XX/20XX ISSUED FOR XXXX # BY CHK APP DATE RELEASE/REVISION DESCRIPTION





LAKE WABASSO OUTLET REPLACEMENT	BARR PROJECT # 2362154000
SHOREVIEW, MINNESOTA	DWG # C-03
SOIL BORING	REV#



11'-9 3/4"

8'-4 3/4"

1. SHEET PILES AND WING WALL NOT SHOWN.

MNDOT GRANULAR FILTER

MATERIAL - 3601.2.E.1 (TABLE

RELEASE / REVISION DESCRIPTION

12"x12" CONC WEIR

SECTION: WEIR STRUCTURE

1/2" = 1'-0"

1'-8 1/2"

1'-8 1/2"

TOC EL 887'-8"

TOC EL 884'-8"

HELICAL SHAFT SHOWN FOR ILLUSTRATIVE PURPOSES

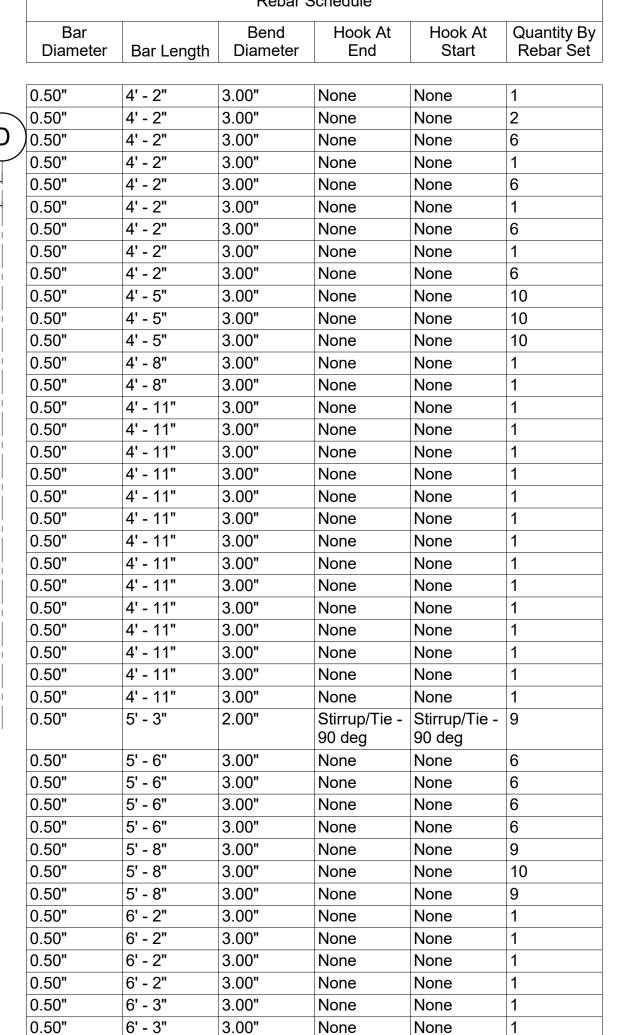
SPECIFICATION REQUIREMENTS

ENGINEERING STAMP PLACEHOLDER

ONLY, SEE TECHNICAL

\S-02

| BY | CHK | APP | DATE



NOTES:

A. **GENERAL**

- 1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATION AND DETAILS OF SITE WHERE THEY AFFECT STRUCTURAL, NOTIFY STRUCTURAL ENGINEER OF RECORD IF THERE ARE ANY DEVIATIONS FROM CONTRACT DOCUMENTS. CONTRACTOR SHALL FIELD VERIFY DIMENSIONS AND ELEVATIONS PRIOR TO FABRICATION OF STRUCTURAL MEMBERS.
- 2. DO NOT SCALE THE STRUCTURAL DRAWINGS.
- 3. THE STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE EXCEPT WHERE SPECIFICALLY SHOWN, DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION.
- 4. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR PREPARATION AND INSTALLATION OF PURCHASED MATERIALS AND EQUIPMENT.
- 5. REFER TO PROJECT SPECIFICATIONS FOR QUALITY CONTROL REQUIREMENTS, INCLUDING RESPONSIBILITY FOR PAYMENT FOR QUALITY CONTROL SERVICES.
- 6. THESE NOTES ARE COMPLEMENTARY TO THE SPECIFICATIONS AND DRAWINGS AND REPRESENT MINIMUM REQUIREMENTS.

B. GOVERNING CODES

- 1. PERFORM WORK IN COMPLIANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL CODES AND REGULATIONS.
- 2. 2018 INTERNATIONAL BUILDING CODE AND REFERENCED STANDARDS WITH 2020 MINNESOTA BUILDING CODE AMENDMENTS.

C. <u>DESIGN CRITERIA</u>

1. SEE NOTES ON S-02.

D. <u>INSTALLATION NOTES</u>

- 1. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
- 2. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STRUCTURE.

Rebar Schedule					
Bar Diameter	Bar Length	Bend Diameter	Hook At End	Hook At Start	Quantity By Rebar Set
0.50"	6' - 3"	3.00"	None	None	1
0.50"	6' - 3"	3.00"	None	None	1
0.50"	6' - 3"	3.00"	None	None	1
0.50"	6' - 3"	3.00"	None	None	1
0.50"	6' - 3"	3.00"	None	None	1
0.50"	6' - 3"	3.00"	None	None	1
0.50"	6' - 3"	3.00"	None	None	1
0.50"	6' - 3"	3.00"	None	None	1
0.50"	6' - 3"	3.00"	None	None	1
0.50"	6' - 3"	3.00"	None	None	1
0.50"	6' - 6"	3.00"	None	None	1
0.50"	6' - 6"	3.00"	None	None	1
0.50"	6' - 6"	3.00"	None	None	1
0.50"	6' - 6"	3.00"	None	None	1
0.50"	8' - 10"	3.00"	None	None	2
0.50"	10' - 1"	3.00"	Standard - 90 deg	Standard - 90 deg	2
0.75"	3' - 8"	4.50"	None	None	10
0.75"	3' - 8"	4.50"	None	None	8
0.75"	4' - 0"	4.50"	None	None	1
0.75"	4' - 0"	4.50"	None	None	1
0.75"	4' - 0"	4.50"	None	None	2
0.75"	4' - 0"	4.50"	None	None	3
0.75"	4' - 0"	4.50"	None	None	1
0.75"	4' - 0"	4.50"	None	None	1
0.75"	4' - 8"	4.50"	None	None	1
0.75"	4' - 8"	4.50"	None	None	1
0.75"	4' - 8"	4.50"	None	None	1
0.75"	4' - 8"	4.50"	None	None	1
0.75"	6' - 3"	4.50"	None	None	1
0.75"	6' - 3"	4.50"	None	None	1
0.75"	6' - 3"	4.50"	None	None	1
0.75"	6' - 3"	4.50"	None	None	1
0.75"	6' - 4"	4.50"	None	None	1
0.75"	6' - 4"	4.50"	None	None	1
0.75"	6' - 4"	4.50"	None	None	1
0.75"	6' - 4"	4.50"	None	None	1
0.75"	10' - 0"	4.50"	Standard - 90 deg	Standard - 90 deg	5
0.75"	10' - 6"	4.50"	Standard - 90 deg	Standard - 90 deg	5

PRELIMINARY DRAFT NOT FOR CONSTRUCTION

4300 MARKETPOINTE DRIVE WWW.BARR.COM

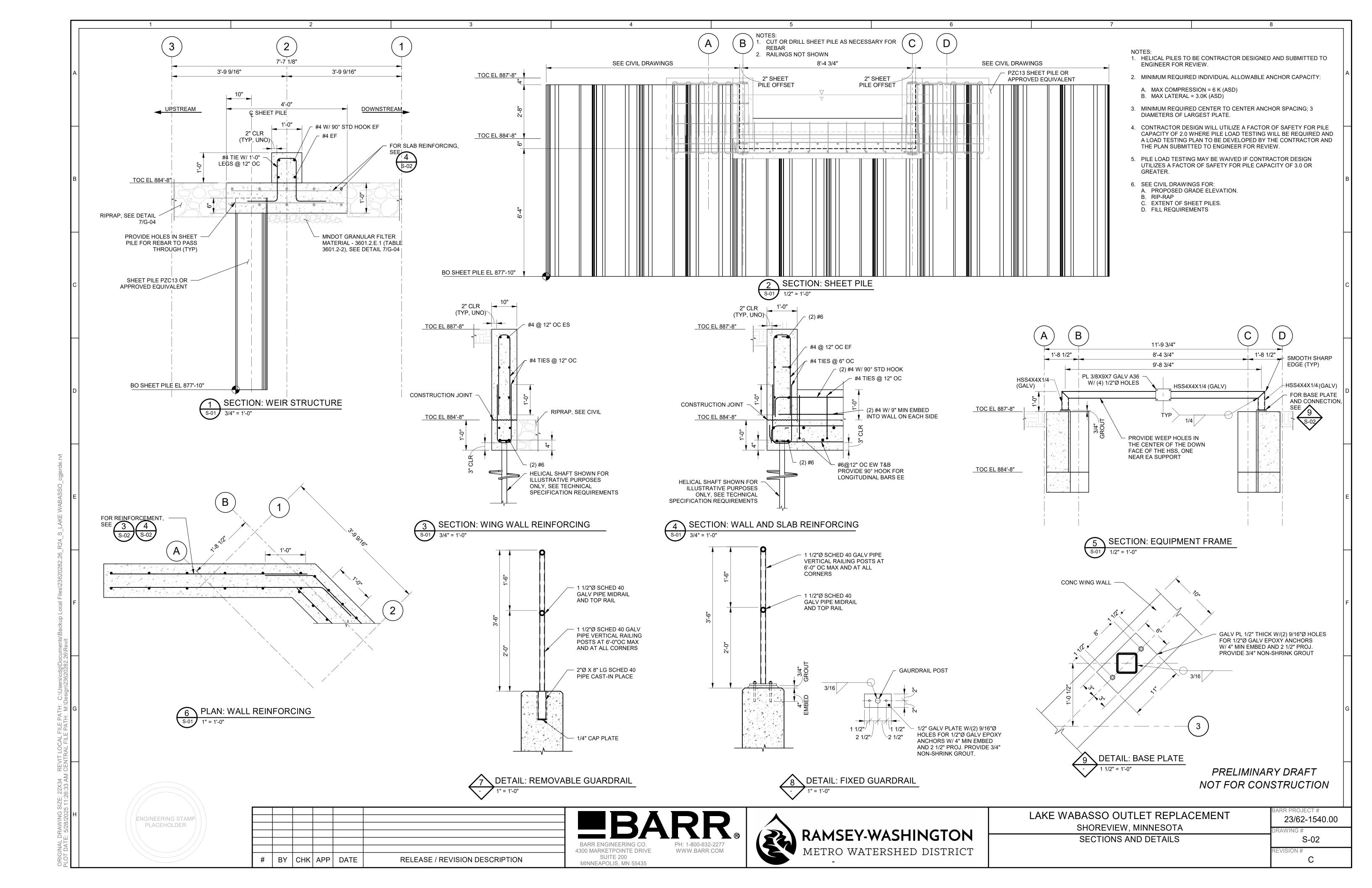
SUITE 200

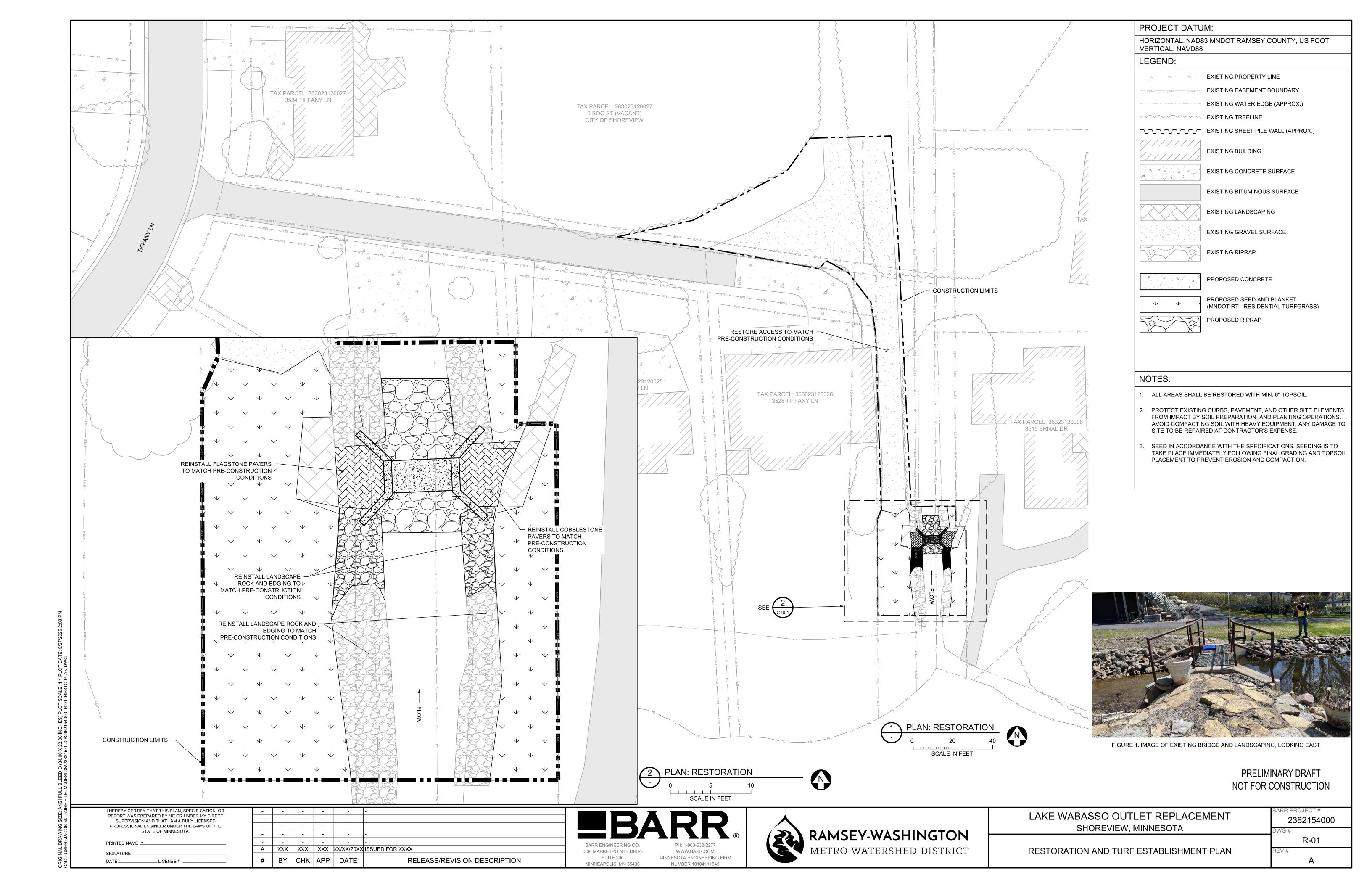
MINNEAPOLIS. MN 55435



NOTE: REBAR SCHEDULE IS FOR ESTIMATION PURPOSES ONLY.

LAKE WABASSO OUTLET REPLACEMENT	BARR PROJECT # 23/62-1540.00
SHOREVIEW, MINNESOTA	DRAWING #
NOTES, PLAN & SECTION	S-01
	REVISION#





CONTRACT DOCUMENTS

LAKE WABASSO OUTLET REPLACEMENT **RAMSEY-WASHINGTON METRO WATERSHED DISTRICT**

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31 66 15 Helical Piles 31 66 15-1 **Division 32 – Exterior Improvements**

See Drawing G-01 for the Construction Drawing index

Appendix A **Erosion Control Log**

32 93 10 Site Restoration



32 93 10-1

New Reports/ Presentations *******



2025 Annual report & research fund - Minnesota Stormwater Research Council

From John Bilotta <bilot002@umn.edu>

Date Thu 05/22/2025 3:21 PM

To Tina Carstens <tina.carstens@rwmwd.org>

Cc Paige Ahlborg <paige.ahlborg@rwmwd.org>

1 attachment (2 MB)

Stormwater 2025 Annual Highlights Report - FINAL RS.pdf;

Caution: This email originated outside our organization; please use caution.



Tina, Paige and colleagues and board of the RWMWD,

I'm pleased to share the <u>2025 Annual Report from the Minnesota Stormwater Research Council (MSRC)</u>. This year's report highlights numerous accomplishments made possible through the generous support of organizations like yours.

We encourage you to:

- Share the report with your board members, colleagues, and others in your network.
- Explore the Stormwater Research Project Library to see the impact of your support.
- Attend the MSRC Annual Tour and Meeting on July 17 more details coming soon.

Help Us Reach Our 2025 Goal

We are aiming to raise \$250,000 in research funding from watersheds, cities, and private businesses. Your continued support is vital.

Why Your Support Matters

While we're grateful to have received funding from the Clean Water Fund for the upcoming biennium, it comes with a slight reduction compared to previous years. Your financial contributions help us maintain momentum and expand our research efforts.

Additional Opportunities

- Printed copies of the report are available upon request.
- A member of our advisory board or I would be happy to present highlights of the annual report to your board or team at your convenience.

Thank you again for your continued support and commitment to advancing stormwater research in Minnesota.

With gratitude,

John Bilotta

Senior Research and Extension Coordinator

Minnesota Stormwater Research Program - University of Minnesota Water Resources Center

Extension Educator | Minnesota Sea Grant Program

Email jbilotta@umn.edu Phone 612-624-7708

2025

Annual Report



Advancing science, technology and management of stormwater in Minnesota by investing in and facilitating research to prevent, minimize and mitigate the impacts of runoff from the built environment.

ADMINISTRATOR'S MESSAGE



Facilitating research is a primary mission

As I reflect on the Minnesota Stormwater Research Program, I want to share the many accomplishments and milestones we achieved in advancing stormwater research. Over the past year, five projects in our research portfolio resulted in significant breakthroughs, from innovative new technologies to solutions that will improve practices. There are sixteen active projects including seven studies focused on understanding and improving the functions of stormwater ponds. These projects, fueled by dedicated researchers and partners, will provide valuable insights into managing stormwater more effectively, efficiently, and with new innovations.

Funding makes great work possible

Equally exciting, we experienced remarkable success in program funding in 2024. We secured the highest level of financial support in the program's history including more than \$185,000 from watersheds, cities, and private businesses and the program was appropriated an additional \$1 million from the Clean Water, Land and Legacy Amendment. On behalf of the Program and Council, I want to extend deep appreciation to the cities, watersheds, private businesses, and to the Clean Water Council for their financial support that empowers us to continue pushing the boundaries of stormwater research, education, and outreach.

Guidance by an exceptional advisory board

Our success is also due to the guidance and expertise provided by our diverse and talented advisory board which includes representatives from cities, watersheds, agencies and private engineering. Their insights have been invaluable in shaping our research programs and in advancing our technology transfer efforts.

Transfer the knowledge and science we generate

A key highlight of this year was hiring a second Stormwater Extension Educator, pivotal in expanding the reach of our work. The Clean Sweep Program featured webinars and workshops establishing a path for communities to adopt street sweeping programs that will help them meet their water quality goals. The Minnesota Stormwater Seminar Series continues to serve as a valuable platform for knowledge exchange. In 2024, more than 1,900 participants joined us for 11 seminar sessions.

We will continue our mission with determination, advancing science, technology, and the management of urban stormwater in Minnesota by investing in and facilitating research to prevent, minimize, and mitigate the impacts of runoff. I welcome you to join us in these efforts.

- John Bilotta

Administrator for the Minnesota Stormwater Research Program

ADVISORY BOARD

The Minnesota Stormwater Research Council (MSRC) is an organization of stormwater professionals, practitioners, managers, engineers, researchers and others who work together to facilitate and complete research on urban stormwater management. This knowledge is then shared with professionals across Minnesota empowering them to prevent, minimize and mitigate the impacts of runoff. The MSRC is administered by the University of Minnesota Water Resources Center (WRC) and works in tandem with the WRC's Minnesota Stormwater Research Program (MSRP).





Meet our Advisory Board Members

Paige Ahlborg

Ramsey-Washington Metro Watershed District

- Derek Asche
 - City of Maple Grove
- Kyle Axtell

South Washington Watershed District

Brian Beck

Minnehaha Creek Watershed District

Ross Bintner

City of Edina

• Joanne Boettcher

Minnesota Pollution Control Agency

• Steve Christopher

Metropolitan Council

• Justine Dauphinais

Coon Creek Watershed District

Jack Distel

City of Bloomington

Carolyn Eckstein

Minneapolis Park & Recreation Board

David Filipiak

SRF Consulting Group

Becca Oldenburg-Downing

Washington Conservation District

Bridget Osborn

HR Green, Inc.

Jeff Peterson

Water Resources Center

Keith Pilgrim

Barr Engineering

Emily Resseger

Mississippi Watershed Management Organization

Warren Tuel

Minnesota Department of Transportation

Brad Wozney

Board of Water and Soil Resources

Recently completed projects



How is chloride from winter road deicers impacting surface water?

Project highlights

- Chloride levels continue to rise in Minnesota's surface waters; concentrations are highest in the most urbanized watersheds.
- Watershed inputs, flow paths, water body type, morphology, and seasons are all factors that impact chloride concentration in surface waters.
- The project developed a method to identify and prioritize high-risk water bodies more susceptible to pollution from chloride, which will help managers know where to focus monitoring efforts.

Evaluation of media effectiveness for removal of phosphorus and other pollutants in high-volume stormwater filtration BMPs

Can high-volume stormwater filtration systems be effective in removing large amounts of phosphorus (P)?

Project highlights

- The active, high volume Rosland Park Filtration System had lower total P removal efficiencies compared to traditional passive iron enhanced filters.
 - Monitoring in 2023 showed a total of 11.1 lbs of P was removed at a cost of about \$9,638/lb.
 - When tested, the filter media tested withstood continuous inundation while maintaining aerobic conditions.
 - System testing, reconfiguration, operation and monitoring will continue.
- This design has the potential to serve as a viable stormwater BMP alternative where available land is limited or maintaining recreational greenspace is a paramount objective.



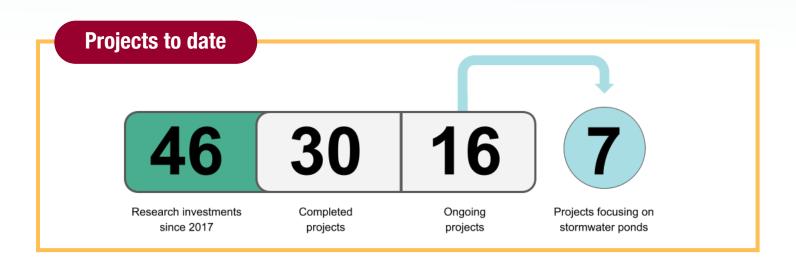
Recently completed projects

Iron enhanced sand filters (IESF) performance and maintenance meta-analysis

How effective are IESFs in Minnesota reducing phosphorus (P) from urban runoff?

Project highlights

- Most IESF achieve less than 50% soluble reactive P retention after reaching 10,000 to 13,000 ft of treated depth (volume of water through the filter divided by the area of the filter).
- Batch tests of remaining capacity will provide the best assessment of an IESF's soluble reactive P retention.
- An IESF's effective operational lifespan is a function of age and the ratio of watershed area to filter area.
- The project resulted in maintenance recommendations including,
 - Inspect IESFs after every major storm during the first year of operation.
 - Perform annual visual inspections at least once per growing season.
 - Remove organic material (leaves, seeds, grass) that has settled on the media and rake the media.
 - Remove plants growing in the media in the fall before seed drop.
 - Inspect for and breaking up clumps of iron if present.



Recently completed pond projects

Fate and transport of phosphorus and HABs from stormwater ponds

Are stormwater ponds exporting phosphorus and harmful algal toxins downstream?

Project highlights

- In all storm events, total phosphorus (TP) concentrations were detected in the outlets of all three ponds in the study, indicating some export to downstream water bodies.
 - 70% of the variability of TP export concentrations were explained by the watershed area to pond surface area ratio. Pond depth was also a factor.
 - The algal community (Microcystis) at the outlet and downstream
 of all three ponds were dominated by blue-green algae species
 that can produce toxins. Their presence does not indicate the
 persistence of toxins but rather indicates the potential for toxin
 production.
- Algal toxin concentration varied; samples were below and above the detection limit. However, all measured concentrations were below the World Health Organization's limit of 10 μg/L, posing a relatively low probability of acute health risks.
- Site specific retrofit options (e.g. increasing permanent pool volume, decreasing depth to mitigate anoxic conditions) were identified that would improve pond performance.

Enhancement and validation of a stormwater pond assessment tool (PAT)

How well can a diagnostic tool assess the functionality of stormwater ponds and how can the tool be improved?

Project highlights

- The PAT was updated to improve its utility, incorporating better regression statistics and prediction models. The influence of floating and emergent vegetation was added.
- Components of the tool were tested on more than 18 ponds.
- New features include a scoring and ranking system for pond risk indicators and adding increased flexibility to refine the tool as new data and information becomes available.
- User guidance was developed and a pilot workshop was held laying a path for future training and adoption by practitioners.

Click on any research question for a link directly to that project's website.

Ongoing projects

Photo credit MPCA

- Can stormwater treatment trains be more effective with augmented biofilters?
- Which contaminants of emerging concern (CECs) are present in urban stormwater runoff and can biofiltration remove them?
- To what extent do urban trees intercept precipitation and reduce stormwater runoff and are tree leaves adding to nutrients in runoff?
- What type of soil and media in bioretention practices support the most effective plant growth and limit nutrient export?
- Can iron enhanced sand filters be enhanced with alternative agents that are effective and readily available?
- Are there patterns in the design and installation of roads, parking lots, and pavement areas that prevent the efficient use of deicing materials?
- Can we design snow storage areas to prevent melt and refreeze and reduce the repeated use of deicers?
- How many and what kind of distributed BMPs are needed to see meaningful impact to water quality and quantity at a watershed scale?
- Can the addition of fungi to biofilters, swales and other stormwater practices increase the removal of pollutants from runoff?

Ongoing pond-related projects

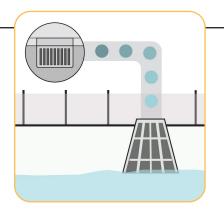
- How do stormwater pond design, maintenance, and physical characteristics influence pond vegetation and how does vegetation impact water quality?
- What are the most effective methods to reduce and remediate phosphorus release rates from urban stormwater ponds?
- Can real-time pond adaptive level control systems be used to enhance stormwater pond management for water quality and flood control benefits?



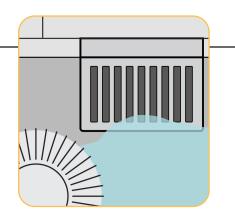
- Can a redesign and proper maintenance of a forebay pretreatment practice enhance the function of a stormwater pond?
- What are the design and management factors that determine the long-term performance of stormwater ponds?
- How effective are pond aeration and mixing systems at reducing water quality problems and nutrient export?
- Can earthworms (vermiremediation) reduce PAH contaminants in pond sediment?

2024/2025 RESEARCH PRIORITIES

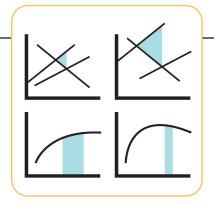
Click anywhere on the page for a link to the research priorities PDF.



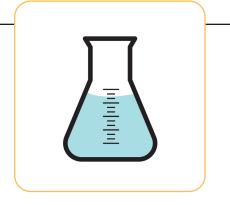
- **Structural practices** including their design, construction, operation and maintenance
 - Urban stormwater ponds
 - · Stormwater capture and reuse
 - Bioretention practices
 - Iron-enhanced sand filters & other filler amendments
 - Treatment trains of practices



Pollution prevention and source reduction practices and approaches, including street sweeping



3 Effectiveness (efficacy) of practices and approaches at a watershed, sub-watershed or catchment scale



Characterization of stormwater runoff (including snowmelt) for pollutants, including bacteria, PFAS, chloride and microplastics

TECHNOLOGY TRANSFER

Delivering research results to practitioners, professionals and policymakers.

In 2024, the Technology Transfer Program continued to grow, ensuring the effective transfer of research results. A dynamic Technology Transfer Plan was developed, with input from the MSRC Technology Transfer Committee, to advance three key goals:

- 1. Ensure that research results are accessible and widely shared
- 2. Create a system that identifies and engages with the target audiences for the research
- 3. Connect research projects to the stormwater community.



Clean Sweep Program

In 2024, four Clean Sweep workshops were held, providing participants with valuable insights and new tools and supporting the implementation of enhanced street sweeping strategies.

In addition, the first-ever Sweeping and Salting Showdown workshop was launched, in collaboration with the Minnesota Pollution Control Agency and Hamline University. Attendees were offered a handson look at available equipment and technologies for both street sweeping and smart salting.

Minnesota Stormwater Seminar Series

These monthly seminars continued to serve as a valuable platform for knowledge exchange. Eleven seminars were held in 2024. Seminars featured both national and Minnesota experts, coupled with discussion panels composed of practitioners and professionals. Participation was easy, with options for hybrid and in-person attendance at every session. All seminars were recorded and available online.



TECHNOLOGY TRANSFER

Reaching new audiences

HOA Mini-Conference

Informed by the results of a MSRP research project, a mini conference led by Washington Conservation District provided stormwater practice maintenance information to members of homeowners associations (HOAs). Feedback gathered here identified the need for a HOA Stormwater Leaders Course which was piloted in 2025.

Conference Presentations

Researchers presented results from several MSRP completed projects at many national level conferences, including the MN Water Resources Conference.

Erosion and Stormwater Management Certification Program

Research results were incorporated into the Inspection and Maintenance of Permanent Stormwater Treatment Practices certification course.



Meet the technology transfer team



Welcome, Jessy Carlson!

Our technology transfer work got a serious boost in 2024 with the addition of Jessy, our newest stormwater extension educator.

Jessy brings fresh energy, new ideas, and a passion for connecting research with real-world impact.



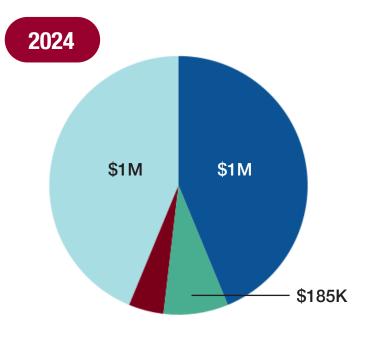
Maggie Karschnia
Extension Educator

Lenna JohnsenGreenCorps Member

Zainab Ahmed Student Worker

PROGRAM FUNDING

Sources The program is funded by pooling and leveraging funds from diverse sources.



- Clean Water Fund
- One-time Clean Water Fund Supplement
- Watersheds, Cities and Private Industry
- Cash and In-Kind from the University of Minnesota Water Resources Center, College of Food, Agricultural and Natural Resource Sciences, Extension, and Minnesota Sea Grant

Watersheds, cities and private industry

2024 Contributors

- Ramsey-Washington Metro Watershed District, \$50,000
- Capitol Region Watershed District, \$35,000
- Mississippi Watershed Management Organization, \$25,000
- South Washington Watershed District, \$25,000
- Nine Mile Creek Watershed District, \$15,000
- Barr Engineering Company, \$3,000
- Coon Creek Watershed District, \$10,000
- Rice Creek Watershed District, \$10,000
- Valley Branch Watershed District, \$4,000
- City of Edina, \$3,500
- Bolton and Menk, \$3,000
- Emmons & Olivier Resources, Inc., \$3,000
- Stantec, \$3,000
- WSB Engineering, \$3,000





2025

Join us as a financial partner today!

Join the growing list of watersheds, cities, private businesses, and organizations as financial partners in the Minnesota Stormwater Research Council.



Make your organization's commitment to be a financial partner using the QR code or by visiting z.umn.edu/fundmsrc.

Administrator's Report

MEMO

TO: Board of Managers and Staff FROM: Tina Carstens, Administrator SUBJECT: May Administrator's Report

DATE: May 29, 2025

A. Meetings Attended

Monday, May 5	9:00 AM	Outdoor Hazards Internal Training
Tuesday, May 6	8:30 AM	MAWA Executive Committee
	10:30 AM	Minnesota Watershed Events-Education
Wednesday, May 14	2:30 PM	Construction Season Planning with Barr
Thursday, May 15	8:30 AM	Water Resources Conference Subcommittee
Friday, May 16,	12:00 PM	Administrator Meeting
Tuesday, May 20	10:00 AM	Management Plan Engagement Meeting
Wednesday, May 28	2:30 PM	Employee Right-to-Know and IDDE Training

B. Upcoming Meetings and Dates

WaterFest	May 31, 2025
June Board Meeting	June 4, 2025
CAC Meeting	June 10, 2025
MW Summer Tour – Roseau River WD	June 24-26, 2025
July Board Meeting	July 9, 2025**
Metro Watersheds Meeting	July 15, 2025
Watershed Week	August 3-9, 2025
August Board Meeting	August 6, 2025
Minnesota Watersheds Special Virtual Meeting	August 25, 2025
September Board Meeting	September 3, 2025
50 th Anniversary Celebration	September 18, 2025
CAC Meeting	September 23, 2025
October Board Meeting	October 1, 2025
Metro Watersheds Meeting	October 21, 2025
CAC Meeting	October 28, 2025
November Board Meeting	November 5, 2025
Watershed Excellence Awards	TBD
CAC Meeting	December 2, 2025
Minnesota Watersheds Annual Conference	December 3-5, 2025
December Board Meeting	December 10, 2025

C. Staff Anniversaries

The following staff members have work anniversaries with the watershed in June. I appreciate them and their work, and I want to thank them for their commitment to the district and our mission!

June 12 Pat Williamson 2 years*
June 26 Paul Erdmann 2 years*

D. Board Action Log and Updates

The board action log is attached. I review this list monthly and add any suggestions made in the previous meeting.

E. New Vehicle Purchase Funding

In 2024, the board budgeted for the purchase of an additional new vehicle to add to our fleet. The vehicle was ordered in 2024, but we didn't take ownership of the vehicle until 2025, which is when the payment was made. Because the payment was made in 2025, it was taken from the 2025 budget. This was then demonstrated in the 2025 budget status report.

This year, we planned to replace the 2015 Ford Escape with a new vehicle. We have received confirmation that a vehicle is available for us to take ownership of in the next couple of months. This new vehicle will cost approximately \$45,000 and will also be shown coming from the District Vehicle/Maintenance line item in the general fund.

This is for your information, so that when you see the percentage of the budget spent in 2025 as over 100%, you understand how we arrived at that figure. The new vehicle budget is available in the general fund reserve.

F. Minnesota Watersheds Updates

For the monthly newsletters, go here: https://www.mnwatersheds.com/news-letters.

The Roseau River Watershed District summer tour will be held June 24-25.

The new resolutions process is underway, and I expect you will see some communication from Minnesota Watersheds in the coming week. A virtual meeting will be held on August 25th to discuss and make decisions on resolutions and the legislative platform.

^{*}Full-time anniversary but worked as an intern previously.



Board of Managers 2025 Action Log

May 7, 2025

Item	Anticipated Action Date	Means of Action	Completed
Shoreland Assessment Next Steps	WMP 2025	Board Discussion	
PFOS Update	WMP 2025	Presentation and Board Discussion	
Impervious Surface Reduction Planning	WMP 2025	Presentation and Discussion.	
Chloride Use Reduction/Low Salt Design/Calibration Techniques	WMP 2025	Presentation and Board Discussion	

Project and Program Status Reports





Memorandum

To: Board of managers and staff

From: Tina Carstens, Brad Lindaman, Erin Anderson Wenz, and Brandon Barnes

Subject: Project and program status report: June 2025

Date: May 28, 2025

Note: The location, brief description, and current status of each project described below can be found on the <u>2025 Ramsey-Washington Metro Watershed District (RWMWD) engineering</u> services story map.

Project feasibility studies

A. Manufactured homes resilience evaluation (Barr project manager: Tyler Olsen; RWMWD project manager: Paige Ahlborg)

This project aims to complete an inventory of manufactured home developments within the RWMWD, identify potential project opportunities to increase resilience to regional flooding, reduce localized flood risk, improve water quality, and connect with developments to provide information on opportunities to improve stormwater conveyance and/or water quality within each development.

During this period, Barr evaluated each manufactured housing site, utilizing information from other efforts throughout the district including flood risk information from the Beltline and non-Beltline resiliency studies and the watershed approach to retrofit projects (which include equity areas, impaired subwatersheds, potential wetland restoration sites, ecological corridors, and more). We reviewed this information with the RWMWD and will begin contacting property management to gauge interest in potential projects. If there is interest, we will conduct a site visit and start identifying conceptual-level projects. We anticipate that the project will be completed later this year.

B. Evaluation of compliance with the South Metro Mississippi River total suspended solids (TSS) total maximum daily load (TMDL) (Barr project manager: Tyler Olsen; RWMWD project manager: Eric Korte)

This project aims to understand how the Beltline watershed compares to the required categorical waste load allocation from the South Metro Mississippi River TSS TMDL and identify TSS reduction strategies if TSS loading exceeds the maximum areal load.

During this period, Barr continued analyzing existing water quality and flow data through 2024 for the Beltline interceptor and modeling TSS loads utilizing FLUX32 modeling software (a program

To: Board of managers and staff

From: Tina Carstens, Brad Lindaman, Erin Anderson Wenz, and Brandon Barnes

Subject: Project and program status report: June 2025

Date: May 28, 2025 Page 2

developed by the U.S. Army Corps of Engineers in collaboration with the Minnesota Pollution Control Agency (MPCA)). We will use the data to understand existing TSS loading from the Beltline watershed. TMDL reporting has been delayed again in 2025 due to ongoing development of the MPCA's new reporting system. We will complete the modeling analysis and identify potential reduction strategies this year to prepare for reporting in 2026.

C. Street sweeping (Barr project manager: Michael McKinney; RWMWD project manager: Paige Ahlborg)

This study aims to support the 2025 enhanced street-sweeping grant program.

In May, Barr helped the RWMWD review street sweeping applications and collaborated on the University of Minnesota/MPCA street sweeping workshop that the RWMWD will host on June 10. In 2025, we will continue supporting the RWMWD with implementation of the enhanced street-sweeping grant program, including municipal coordination, identification of priorities, and technical analysis.

D. Interim emergency response plans (non-Beltline areas) (Barr project manager: Gareth Becker; RWMWD project manager: Paige Ahlborg)

This project aims to provide information and guidance to cities on how to protect low-lying habitable structures from flooding during the 100-year storm event. These emergency response plans address areas where 1) a feasible project to protect structures has not been identified or 2) a project cannot be implemented soon due to logistical and/or budgeting concerns. This effort is an outcome of the resiliency study.

During this period, Barr compiled data for all sites and identified 100-year elevations and other data for each site. Next month, we will develop figures for emergency flood risk mitigation measures and site-specific modifications that could be implemented to reduce flood risk for habitable structures within the floodplain. We anticipate continuing figure development throughout the summer and sharing findings with each city later this fall.

E. Roseville Central Park Flood risk reduction feasibility study (Barr project manager: Tyler Olsen; RWMWD project manager: Paige Ahlborg)

This project aims to identify strategies or combinations of strategies and system modifications that would remove habitable structures near Central Park in Roseville from the 100-year floodplain.

During this period, Barr continued detailed modeling to support the development of feasibility-level concepts to reduce flood risk. The evaluation includes identification of outlet control structures, overflow elevations, public parcels where more water could be stored during a flood event, and low habitable structures near Central Park and adjacent to other public parcels where flood levels may change because of modifications to the system. We have begun pinpointing concepts that will reduce flood risk for a range of storm events (i.e., 100-year, 25-year, etc.) and plan to arrange a June or July meeting with the City of Roseville to discuss the preferred concepts.

To: Board of managers and staff

From: Tina Carstens, Brad Lindaman, Erin Anderson Wenz, and Brandon Barnes

Subject: Project and program status report: June 2025

Date: May 28, 2025 Page 3

F. Stormwater model updates (Barr project manager: Michael McKinney; RWMWD project manager: Paige Ahlborg)

This project aims to maintain and update the RWMWD hydrologic and hydraulic (stormwater) model in response to updates to best-available information, including recently completed and ongoing stormwater modeling projects.

During this period, Barr continued subwatershed review for the Highway 36 area and organized initial tasks related to future incorporation of the Phalen and Beltline modeling updates, which the City of Saint Paul is completing. Additionally, we continued updating the Battle Creek tunnel modeling and reviewing Saint Paul models spanning the Dayton's Bluff area. Note: The Saint Paul Beltline modeling project was initiated on May 15, about one month behind the anticipated schedule. Additionally, survey of the Beltline tunnel may be delayed another two months due to high water in the tunnel. Barr is currently tracking these project delays and will coordinate with the RWMWD to complete the tasks outlined in this scope as the Saint Paul projects progress. During the next period, we will complete subwatershed review in the Highway 36 area and continue incorporating Saint Paul models spanning the Dayton's Bluff area into the RWMWD stormwater model.

Monitoring water quality/project monitoring

G. Special-project BMP monitoring (Barr project manager: Erin Anderson Wenz; RWMWD project manager: Eric Korte)

This project aims to collect data from and monitor the performance of BMPs throughout the district.

During this period, Barr and the RWMWD discussed last year's Arbogast CC17 filter performance. Immediately after the filter was first put online, outflows were as expected. As the season progressed, however, outflows decreased, indicating that the surface of the CC17 may be clogged with organic matter or that the drain tile is somehow plugged or otherwise compromised.

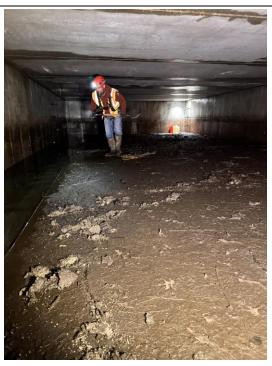
A May 1 inspection of the filter revealed that the CC17 material is indeed covered with a ¼-inch to 1-inch layer of fine sediments and organic muck, which is limiting the flow through the filter media. This layer will be removed this month to allow flows to move more freely through the filter. In addition, staff are considering ways to lessen the sediment load to the filter by changing the volumes that get diverted to the filter during storm events. This is, of course, a balancing actremoving as much sediment as possible from stormwater before it gets downstream to Lake Emily, while also loading the filter at a rate that will not require burdensome maintenance.



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1/2-inch to 1-inch of mucky sediment covers the CC17 media in the Arbogast stormwater filter

H. Battle Creek and Fish Creek monitoring (Barr project manager: Jay Hawley; RWMWD project manager: Eric Korte)

This project aims to support the RWMWD in conducting water quality monitoring of Battle Creek and Fish Creek and to evaluate monitoring data to inform future placement of BMPs in the Battle Creek subwatershed as well as future Tanners Lake and Battle Creek Lake weir operations.

During this period, Barr finalized water quality monitoring requirements, provided final recommendations, helped the RWMWD place monitoring equipment, and answered miscellaneous follow-up questions. Over the next four months, we will continue assisting the RWMWD with collecting samples along the two creeks.

Watershed management plan update

I. Watershed management plan update: phase 1 stakeholder engagement (Barr project manager: Greg Williams; RWMWD project manager: Tina Carstens)

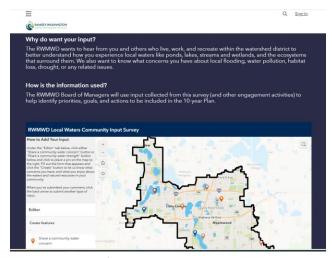
This project aims to help the RWMWD collect and interpret partner input as the district updates its watershed management plan.

During this period, Barr developed a map-based online survey for the RWMWD to use at public events and met with the district to discuss plan engagement goals for WaterFest. We also revised the survey based on RWMWD feedback. The current survey is available here. Next steps include reviewing the survey and other engagement results gathered at WaterFest and submitting the draft engagement plan for Minnesota Board of Water and Soil Resources review.

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Screenshot of the map-based online survey tool

Lake studies and TMDL reports

J. 2025 grant applications (Barr project manager: Erin Anderson Wenz; RWMWD project manager: Tina Carstens)

This effort aims to help the RWMWD locate and secure funding opportunities that align with its goals and objectives.

During this period, Barr met with the RWMWD to discuss the 3M PFAS priority 2 grant funding. We prepared two letters of intent for this grant program for the Kohlman Lake alum treatment project and the Fish Creek tributary stream restoration project. These letters were due at the beginning of April. The MPCA will select projects and invite full applications to be submitted in June.

Research projects

K. Wakefield Lake aeration feasibility study (Barr project manager: Tyler Olsen; RWMWD project managers: Paul Erdmann and Eric Korte)

This project aims to evaluate the effectiveness of increasing dissolved oxygen concentrations in Wakefield Lake via aeration methods to control internal phosphorus loading.

During this period, Barr began outreach to aeration technology vendors to discuss technology options for Wakefield Lake.

Project operations

L. 2025 Tanners alum facility monitoring (Barr project manager: Meg Rattei; RWMWD project manager: Eric Korte)

This project aims to complete the monitoring and reporting required by the general National Pollutant Discharge Elimination System (NPDES)/State Disposal System (SDS) permit for municipal separate storm sewer systems (MS4s).

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On April 23, the Tanners alum plant began operating for the 2025 season and will continue until fall. The RWMWD and Barr are summarizing 2024 data, completing FLUX modeling to determine the quantity of total and dissolved phosphorus removed during 2024, and preparing the 2024 facility report required by the MS4 permit. We will submit the report to the MPCA in June.

M. Lake-level station operation and maintenance and rain gauge installation (Barr project manager: Chris Bonick; RWMWD project manager: Dave Vlasin)

This project aims 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. Operation and maintenance tasks for the lake-level stations and associated webpages continue. Station-specific updates are included below.

Lake-level graphs

Ice-out occurred on most of the lakes during the week of March 17. Barr conducted spring lake-level surveys during the week of March 24. We calibrated sensors where necessary and updated the datalogger programs. We also removed the ice conditions note and shading on the district's website graphs, and the graphs now display accurate levels. Two stations are currently out of order. The West Vadnais Lake station sensor is buried in sand, preventing accurate level readings, and will need to be raised. At the Lake Owasso station, the bolts holding the sensor mounting post to the pier were sheared off this winter, causing the sensor to fall into the water and damaging it beyond repair. The RWMWD and Barr will perform maintenance on these stations in the coming weeks.

Tanners Lake station

The HSA bubbler system has been replaced with a Campbell Scientific radar sensor. During the first few years, the bubbler system experienced repeated issues, mainly due to the long run of the river line (i.e., the airline) into the lake and heavy vegetation around the sensor. The RWMWD and Barr determined that installing a radar sensor inside a stilling well on the lake's shore would be a better option. The new radar sensor has been temporarily mounted on a post that stands in the lake. It will be moved once the stilling well has been constructed in 2025.

N. Lake-level station forecast integration (Barr project manager: Greg Fransen; RWMWD project manager: Eric Korte)

This project aims to develop a tool that analyzes rainfall forecasts and current lake-level information and then recommends when the control structures for Lake Phalen and Keller Creek should be operated. The goal is to develop a tool that can be used to automate adjustment of the control structures so that the RWMWD does not have to manually monitor rainfall forecasts and to format the tool so that it can be provided to In Control, Inc. in the future to update the programable controls for the outlets.

During this period, Barr created a new lake-level summary for Spoon Lake and began writing the programming needed to combine real-time RWMWD lake-level monitoring data with National Weather Service 24-hour precipitation forecasts to make recommendations for outlet operations based on the approved operations plan. Over the next few months, we will automate this process

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and create a method of notifying the RWMWD when outlet operations are recommended. This project is anticipated to continue until fall 2025.

Capital improvements

O. Roosevelt Homes (Barr project manager: Marcy Bean; RWMWD project manager: Paige Ahlborg)

This project aims to develop construction documents for a multi-phase flood management and water quality improvement project at the Roosevelt Homes public housing area in Saint Paul.

Construction started in early May. The contractor anticipates completion within approximately eight weeks, depending on the weather, by the end of June.



Construction in the playground area of Roosevelt Homes

P. Targeted retrofit projects 2025 (Barr project manager: Marcy Bean; RWMWD project manager: Paige Ahlborg)

This project aims to design BMP retrofits on previously identified commercial, school, and faith-based properties in the district, as well as to provide bid assistance and oversee construction.

Pre-construction meetings were held with the contractors for the BMP retrofits at Cochran Recovery Services and Maplewood Toyota. Construction at Maplewood Toyota began on May 19 and should take approximately two weeks. Construction at Cochran Recovery Services will likely start in early June.

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Construction at Maplewood Toyota

Q. Pioneer Park stormwater reuse (Barr project manager: Jennifer Koehler; RWMWD project manager: Paige Ahlborg)

This project involves final design, plans, and specifications for a stormwater reuse system in Pioneer Park that will reduce the use of groundwater for irrigation as well as phosphorus loads to downstream water bodies.

On April 23, Barr, the RWMWD, the City of Little Canada, and Peterson met at the site for system startup; however, Peterson needed a plumber to address a leaking joint on a pipe in the pavilion and add an additional blowout, per a conversation with the city. Peterson ordered the necessary parts and has completed the repairs. System startup with Peterson, the RWMWD, the city, and Barr is scheduled for May 29. We are also coordinating with the district and city to identify who should have access to WaterVision to receive notifications if any alarms are triggered or to check on the status and performance summary of the system.

R. Fish Creek tributary improvements (Barr project manager: Tyler Olsen; RWMWD project manager: Tina Carstens)

This project aims to design and implement vegetation improvements around Double Driveway Pond as well as stream stabilization improvements in the Fish Creek tributary upstream.

During this period, Barr continued advancing plans and technical specifications to the 100-percent level. The proposed bidding and construction schedule will depend on grant funding received for the project. If the MPCA invites the RWWMD to submit a grant proposal for the 3M PFAS funding, the project will likely be delayed to 2026. If funding is not received, the project will be constructed in fall 2025.

S. Cottage Place wetland regeneration (Barr project manager: Brendan Dougherty; RWMWD project manager: Paige Ahlborg)

This project aims to design and restore a degraded wetland on the City of Shoreview property near

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the Cottage Place cul-de-sac. The project will involve plans development, bidding, and construction administration to provide additional stormwater treatment and restore wildlife habitat in the area.

Barr continued coordinating construction activities with Dimke Excavating. We organized and reviewed construction activities related to debris removal, earthwork, and preparations needed for final site restoration. The contractor completed major earthwork operations.

T. Kohlman Creek flood risk reduction improvements (Barr project manager: Tyler Olsen; RWMWD project manager: Paige Ahlborg)

This project aims to design multiple flood risk reduction improvement projects previously identified in the Kohlman Creek flood risk reduction feasibility study. The improvement projects include PCU Pond T grading, 13th Avenue storm sewer improvements, and berm grading and outlet installation in the backyards of homes along County Road C.

During this period, Barr continued developing plans and construction documents to the 100-percent design level and incorporated comments from project stakeholders (Ramsey County Parks, the City of Maplewood, and the City of North Saint Paul). In addition, Barr and the RWMWD continued developing construction access and maintenance agreements with Ramsey County Parks and North Saint Paul.

This month, we are requesting permitting and bidding approval. Included in the board packet are the final plan set, the table of contents for the contract documents, and a memo summarizing the request for board action.

U. Lake Wabasso outlet replacement (Barr project manager: Brandon Barnes; RWMWD project manager: Dave Vlasin)

This project aims to design a new outlet for Lake Wabasso. The existing outlet was constructed in 1971 and has reached the end of its design life. Ramsey County determined that the outlet has been leaking beneath the weir wall for several years and that rebuilding the structure is necessary to prevent further seepage. The county requested RWMWD support for a design that both prevents seepage and avoids adverse impacts on floodplain elevations.

This month, Barr addressed comments from Ramsey County and prepared technical specifications and bid documents. We also completed a no-rise evaluation and submitted a Public Waters Work permit application to the Minnesota Department of Natural Resources.

This month, we request that the RWMWD issue a district permit for the project and authorize the solicitation of bids. Included in the board packet are the 90-percent plan set, the table of contents for the contract documents, and a memo summarizing the request for board action. We anticipate construction in fall 2025. Once the work is complete, Ramsey County will reimburse the RWMWD for construction costs.

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V. Kohlman Lake alum treatment (Barr project manager: Tyler Olsen; RWMWD project manager: Paul Erdmann/Eric Korte)

This project aims to collect the required information and design an alum treatment for Kohlman Lake in Maplewood.

During this period, Barr coordinated with the district and PLM following the successful April 30 herbicide treatment. In early June, Barr will collect additional sediment cores on Kohlman Lake to assist with designing an alum dose. Currently, we anticipate an alum treatment in spring 2026.

Capital improvement plan (CIP) project repair and maintenance

W. Routine CIP inspection and unplanned maintenance identification (Barr project manager: Gareth Becker; RWMWD project manager: Dave Vlasin)

This study aims to address unplanned and routine maintenance of the RWMWD's existing capital improvement projects that are not included in the annual CIP maintenance and repairs project.

Activities this period included review of historic data to inform inclusion of Willow Pond in the City of Roseville's 2026 CIP maintenance and repairs project (PECS program), an underground BMP desktop review for inspections, and Wakefield Lake record drawings. Next month, additional discussions and inspections are planned for sites to include in the 2026 CIP project. The annual inspection of all sites will occur in July/August.

X. 2025 CIP maintenance and repairs (Barr project manager: Gareth Becker; RWMWD project manager: Dave Vlasin)

This effort aims to maintain the RWMWD's existing capital improvement projects.

During this period, the contractor worked on the Kohlman Lake structure replacement and the PFS basins. Change order 3, which involves additional connection repairs to the two new structures at site 13 in Woodbury, will appear in payment application 4 this month. The city requested and approved these fixes and will reimburse the RWMWD. Additionally, change order 3 includes modifications to the structure replacement at Kohlman Lake because of unforeseen complications during the removal of the existing structure due to its poor original construction. Payment application 4 is included in this packet. All sites have been completed. However, significant damage occurred to the Ramsey County Parks' path and several concrete pads at the McKnight Basin pond cleanout site. Repairs will be completed soon.

Y. Beltline long-term fix near river outfall (Barr project managers: Joe Welna and Nathan Campeau; RWMWD project manager: Dave Vlasin)

This project aims to replace the final approximately 70 feet of the Beltline interceptor adjacent to the Mississippi River that failed in July 2023.

During this period, Barr helped the RWMWD observe completion of many of the punch-list items, with substantial completion achieved on March 15. Minger, the contractor, finished many of the

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repairs to the Port Authority's deteriorated riverwall tiebacks and is currently backfilling. We anticipate final completion and punch-list items to be addressed over the next several weeks.

Z. Beltline and Battle Creek five-year inspection (Barr project managers: Tyler Fincher and Nathan Campeau; RWMWD project manager: Dave Vlasin)

This project aims to complete the five-year inspections of the Beltline storm sewer interceptor and Battle Creek storm sewer, as well as a detailed survey of the Beltline storm sewer interceptor.

During this period, Barr processed and continued drafting a report of the data collected in March and April. Our televising subcontractor finished inspecting the smaller-diameter section of the Beaver Lake Branch of the Beltline. The remaining section is the most downstream section of the Beltline; the RWMWD is monitoring flows, and when flows are safer, Barr will inspect the final section.

AA. Natural resources update: Paul Erdmann

Keller Shore Restoration Phase 2

In May we made some repairs to the bank of Phase 2 of the Keller Shore Restoration in Keller Regional Park and prepped the site for planting. This week we begin planting with around 250 students from area schools. Students will help us plant around 1,200 native plants while learning about these plants and their importance for water quality and



Planting at Keller Shore

wildlife habitat. Students will also be exposed to birding (and birds have been abundant at Keller Lake) and learn about some of the wildlife that will utilize our plantings.

Maplewood Mall Maintenance In mid-May the Natural Resource Program teamed up with Water Quality and our Projects Team to perform maintenance on the stormwater BMPs at Maplewood Mall. We replaced and lubricated weirs in tree trenches, removed and repaired tree guards and picked up litter.

Telling Our Story I was interviewed by Northern Gardener magazine about resilient gardening in our changing climate and native plant landscaping, and I put a plug in for our beautiful office grounds and demonstration site. The article can be found in the current Summer issue of Northern Gardener. I was also recently interviewed by the Shoreview Press about our Carp Management Program and our management at Lake Owasso. Over the winter, I was interviewed by a writer of the Minnesota Conservation Volunteer that was included in a short segment they did on rain gardens in their March/April issue.

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Thinking Like a Mountain The Natural Resources team attended a Metro Conservation Network tour of Spring Peeper Meadow at the Minnesota Landscape Arboretum in May. An area of agricultural land adjacent to the Arboretum was once slated to become an industrial park before it was acquired by the Arboretum in 1995. Restoration work began shortly after and it is now one of the oldest and most successful wetland restorations



MCN Spring Peeper Meadow Tour

in the state. The tour was lead by Julia Bohnen from the University of Minnesota, who manages the <u>Ecological Restoration training program</u> (recently completed by Pat and Joe) leads the UMN invasive <u>Phragmites australis</u> surveillance and management program. Julia worked on the Spring Peeper Meadow as a student years ago.

I was reminded that the actions we take today can have long-term consequences. Something that starts as a small idea can turn into a long-lasting beneficial project that reaches well beyond our District boundaries and can carry on for years and even decades. This tour was timely as Pat and I met with Paige shortly after to discuss our future wetland restoration projects. ("Thinking Like a Mountain" is a term used by Aldo Leopold in an essay of the same name. It refers to a wholistic view of ecosystems that emphasizes the consideration of long-term actions on the environment.)

BB. Communications and outreach program: Lauren Hazenson and Carrie Magnuson

Weaver Elementary School

On May 1st, three 5th grade classes (81 students total) participated in a Schoolyard Rain Garden Cleanup. They removed about 12 large contractor bags of last year's growth and learned about gardening, pollinators, raingardens, native plants, and service learning.

Woodbury Elementary School

On May 6th, Alana Hanson's 4th grade class (25 students) and Patti Diamond's 5th grade class (27 students) joined in a Schoolyard Rain Garden Cleanup, removing approximately 15 large contractor bags of old plant growth and covering the same environmental stewardship topics.

St. John Catholic School

On May 7th, one 7th grade science class (11 students) engaged in a pre-lesson for their Keller Field Trip. They practiced



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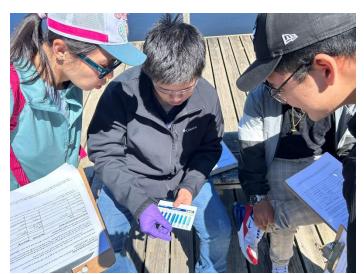
using binoculars for bird identification and learned about the history and importance of shoreline/habitat restoration.

St. Peter Catholic School

On May 13th, one 5th grade class (21 students) took a walking field trip to Casey Lake. Students rotated through stations on water quality testing, a nature hike and scavenger hunt, and birding along the shoreline.

American Indian Magnet School

On May 20th, two 5th grade classes (48 students) took part in the same pre-lesson for the Keller Shoreline Field Trip as St. John's class. On May 29th, these students traveled to the Keller shoreline to plant native species and birdwatch along the restored habitat.



Farnsworth Aerospace Elementary School

On May 27th and 28th, three 4th grade classes and one 3rd/4th grade split class (108 students total) participated in a field trip to the Keller shoreline. They worked in pairs to plant about 16 native plants per group and identified local birds with binoculars, supported by Ramsey County Master Gardeners and RWMWD staff.

Harmony Learning Center

On May 8th, approximately 80 adult

English language learners took a field trip to Maplewood Nature Center. They tested water quality, observed aquatic macroinvertebrates, and went on nature hikes to learn about plants and animals while practicing English.

Management Plan Engagement

• Zan Associates

This month, RWMWD Engagement staff and Zan Associates met with leaders from community organizations and cities to create the engagement plan structure for the management plan's enhanced engagement areas. Discussions focused on identifying the groups to be involved throughout the process and determining which should be consulted during event planning. Zan Associates will continue working with these leaders to gather contact information and build connections with additional community leaders.

Public Kickoff: Saturday, May 31 from 11 am – 4 pm

Final preparations for the management plan public engagement kickoff included finalizing the online survey to gather public feedback, creating an interactive map activity to engage attendees, and conducting a planning meeting with event staff and board volunteers. This meeting focused on clarifying staff roles, refining the event plan, and addressing logistical considerations. Our goal for the event is to secure a minimum of 50 completed surveys, though we anticipate exceeding this

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number. Overall, preparations are underway to ensure a successful and engaging open house.

Community Engagement Survey and Website Landing Page

We completed a landing page to house management plan public engagement events, opportunities, and updates.

Watershed Week

Jule and Cooper completed the webpage, signage, and handouts to promote Watershed Week dates and the bike tour registration at WaterFest.

Phalen Chain Bike Tour: Sunday, August 3rd 9:00 AM and 1:00 PM

This 10-mile, beginner-level bike tour will feature restoration sites along the Phalen Chain of Lakes, with two tour times offered. Riders will start at the RWMWD office and head to sites with Natural Resources speakers at Keller and Phalen Lake. To minimize risk as we pilot this event offering, we will restrict the participant minimum age to 16 and above.

Family Fishing Day Saturday, August 8th

WaterFest

Event Coordinator Maddy Bohn and Lauren will promote WaterFest on the Fox9 local morning show, Good Day, for two segments on the morning of 5/29. The segment will include the reporter Shayne Wells paddling a kayak. It will also feature artist and educator Kristenza Nelson demonstrating her make-and-take art activity, which will be one of three available to attendees on event day.

Stewardship Grant Handout Redesign

The new grant handout features updated photos of past grant recipient properties and illustrations by artist Maggie Wiebe, which were completed for multiple projects last year. This bifold design highlights key information in a bold format to allow for quick and easy reading. We will start handing out this new design at WaterFest this Saturday.

"What You Can Do" Website Section Updates

Jule Miley created informational pages on common native plants and invasive species, which added a needed expansion in our educational materials section. Our goal is to create a one-stop shop for District residents and organizations looking to adopt water-friendly best practices without recreating several quality resources available from partner organizations like Blue Thumb or the Washington Conservation District.

Additional Staff Activities

5/14/25: Watershed Partners Meeting

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• 5/28/25: 3CMA Workshop: Communicating with Limited Resources

Newsletter

Opens: 49.0%

Clicks: 2.4%

Audience: 1,682

Social Media (Facebook, YouTube, Instagram, LinkedIn)

Facebook

Reach: 30,539

Engagement (likes, shares): 212

Followers: 1,777

Instagram

Reach: 4,360 Engagement: 135

Audience: 998

YouTube

Views: 1,269

Watch time (hours): 55.3

Subscribers: 371

Viewers: 1,100 (approx.)

LinkedIn

Reach: 1,801 Audience: 503 ******

Handed out at Meeting

Request for Board Action

Board Meeting Date: June 4, 2025 Agenda Item No: 7D

Preparer: Tina Carstens, Administrator

Item Description: Change Order No. 4 for the Beltline Mississippi River Branch Outfall

Replacement Project

Background:

Attached is Change Order No. 4 for the Beltline Mississippi River Branch Outfall Replacement Project. This change order includes the removal of a concrete slab that was found during the removal and reconstruction of the Beltline Tunnel. The increase in contract price is \$10,799.88.

Applicable District Goal and Action Item:

Goal: Manage flood risk—The district will reduce the public's risk to life and property from flooding through programs and projects that protect public safety and economic well-being.

Action item: Maintain district flood storage facilities and storm sewer systems.

Staff Recommendation:

Approve Change Order No. 4.

Financial Implications:

This change order will increase the contract price by \$10,799.88.

Board Action Requested:

Approve Change Order No. 4.

CHANGE ORDER 4

DATE OF ISSUANCE: June 4, 2025 **EFFECTIVE DATE:** June 4, 2025 PROJECT: BELTLINE MISSISSIPPI RIVER BRANCH OUTFALL REPLACEMENT PROJECT OWNER: Ramsey-Washington Metro Watershed District (RWMWD) CONTRACTOR: Minger Construction Co., Inc. (Minger) NOTIFICATION NAME Mr. Josh Phleger and ADDRESS: 620 Corporate Drive Jordan, MN 55352 **ENGINEER:** Barr Engineering Co. (Barr) 4300 MarketPointe Drive, Suite 200 Minneapolis, Minnesota 55435 Attn: Joe Welna, P.E. You are directed to make the following changes in the Contract Documents 4-1. **Concrete Removal Below Existing Beltline Tunnel Description**: A concrete slab was encountered below the existing Beltline Tunnel during removal. The contractor was directed to remove the slab to allow for installation of the new concrete outfall which required additional effort, time and landfill disposal fees by the contractor. The concrete slab was not shown in the record drawings. Reason for Change Order: This work was not anticipated and is a change from Minger's base bid. Change in Contract Price: This change results in an increase to the contract price by \$10,799.88 as set forth in Minger's cost proposal to complete the work (Attachment 1). Change in Contract Time: This work will not change the contract time.

RECOMMENDED:	ACCEPTED:	APPROVED:
By colubba	<u>By</u>	<u>By</u>
Date: June 4, 2025	Date 6/4/2025	Date
ENGINEER Barr Engineering Co.	CONTRACTOR Minger Construction Co., Inc.	OWNER Ramsey-Washington Metro Watershed District



JORDAN, MN 55352

PHONE: 952-368-9200 FAX: 952-368-9311

Date: Feburary 2025

Project: 24-048 Mississippi Beltline Outfall

Description of Extra Work: Remove concrete foundation located underneath existing 108" sewer

	Hou	urly Rate		
Labor Costs	(Stra	ight Time)	Hours	Total Cost
Foreman	\$	125.06	8.00	\$ 1,000.48
Operator	\$	98.27	16.00	\$ 1,572.32
Laborer	\$	-	24.00	\$ -
				\$ -
				\$ -
Mark Up 15%				\$ 385.92
Total Labor Cost				\$ 2,958.72
Equipment Costs				
Foreman Truck	\$	40.00	8.00	\$ 320.00
110,000 LB EXCAVATOR	\$	270.00	8.00	\$ 2,160.00
WHEEL LOADER	\$	110.00	8.00	\$ 880.00
EXCAVATOR HYDRAULIC HAMMER	\$	60.00	8.00	\$ 480.00
				\$ -
				\$ -
Mark Up 15%				\$ 576.00
Total Equipment Cost				\$ 4,416.00
Subcontractor Costs	Quan	itity	Unit Price	
				\$ -
				\$ -
				\$ _
Total Subcontractor Cost Without Markup				\$ _
Subcontractor Markup (0%)				\$ -
Total Subcontractor Cost With Markup				\$ -
Material Costs	Quan	itity	Unit Price	
MBE TRUCKING- 54194		1.00	\$ 884.00	\$ 884.00
MBE DISPOSAL- 54187		1.00	\$ 2,094.40	\$ 2,094.40
				\$ -
Total Material Cost				\$ 2,978.40
Material Tax (0%)				\$ _
Total Material Cost Without Markup				\$ 2,978.40
Material Markup (15%)				\$ 446.76
Total Material Cost With Markup				\$ 3,425.16
	ımma	ry		
Total Labor Cost				\$ 2,958.72
Total Equipment Cost				\$ 4,416.00
Total Subcontractor Cost				\$ -
Total Material Cost				\$ 3,425.16
Total Cost of Extra Work				\$ 10,799.88



M.B.E., INC. 530 RIVER STREET SOUTH DELANO, MN 55328 (763) 972-9233



JOB		CUSTOMER	TICKET #	DATE	
25005 MISSISSIF	PPI BELTLINE	N/A		02/07/2025	
OUTFALL					
TRUCK TYPE		TRUCK NUM	BER	TRAILER NUMBER	
QUAD DUMP		167		N/A	
START TIME	STOP TIME	SUBTOTAL	LAST LOAD ADJ	TOTAL TIME	
09:15 AM	03:45 PM	6.50	N/A	6.50	
CUSTOMER			CUSTOMER JOB #		
MINGER CONST	RUCTION		24-048		
OWNER		FOREMAN N	ΔME	WORKFORCE NAME	
W06		GORDON	AWIL	W06 WINTERS KEM	
****		CONDON		TRANSPORTION LLC	
DRIVER SIGNAT	URE		FOREMAN SIGNATURE		
Mut		Gordon			
TICKET NOTE					

LOADS (8)

LOAD#	LOAD TIME	MATERIAL	WEIGHT (112)	WEIGHT UOM	FROM	то	NOTES
1	09:17 AM	RUBBLE - ASPHALT / CONCRETE	14	CY	BELTLINE	DAWNS WAY	153179
2	10:12 AM	RUBBLE - ASPHALT / CONCRETE	14	CY	BELTLINE	DAWNS WAY	153184
3	10:58 AM	RUBBLE - ASPHALT / CONCRETE	14	CY	BELTLINE	DAWNS WAY	153148
4	11:50 AM	RUBBLE - ASPHALT / CONCRETE	14	CY	BELTLINE	DAWNS WAY	153199
5	12:39 PM	RUBBLE - ASPHALT / CONCRETE	14	CY	BELTLINE	DAWNS WAY	N/A
6	01:29 PM	RUBBLE - ASPHALT / CONCRETE	14	CY	BELTLINE	DAWNS WAY	N/A
7	02:25 PM	RUBBLE - ASPHALT / CONCRETE	14	CY	BELTLINE	DAWNS WAY	N/A
8	03:12 PM	RUBBLE - ASPHALT / CONCRETE	14	CY	BELTLINE	DAWNS WAY	N/A



M.B.E., INC. 530 RIVER STREET SOUTH DELANO, MN 55328 (763) 972-9233

INVOICE

BILL TO:

PROJECT NUMBER/NAME

OUTFALL

* #25005 MISSISSIPPI BELTLINE

TERMS DATE

INVOICE CUSTOMER JOB

NO.

NO.

NET 30 2/10/2025 54194 24-048

MINGER CONSTRUCTION 620 CORPORATE DRIVE JORDAN, MN 55352

	DESCRIPTION	SERVICE DATE	QTY	U/M	RATE	SALES TAX	AMOUNT
140000	HOURLY TRUCKING QUADS	2/4/2025	3.5	HR	\$136.00	0.000%	\$476.00
140001	HOURLY TRUCKING QUADS TAXABLE	2/4/2025	0.75	HR	\$136.00	9.875%	\$102.00
140000	HOURLY TRUCKING QUADS	2/7/2025	6.5	HR	\$136.00	0.000%	\$884.00

PLEASE NOTE: SERVICE WILL NOT BE PROVIDED WITH OPEN BALANCES EXCEEDING 75 DAYS. PAYMENTS MADE BY CREDIT CARD, WILL BE SUBJECT TO A 3% PROCESSING FEE EFFECTIVE 10/1/2023.

FUEL SURCHARGE WILL BE APPLIED TO ALL TRUCKING INVOICED USING THE CURRENTLY WEEKY FUEL AVERAGE LESS A BASE OF \$5.00 MULTIPLIED BY THE NUMBER OF TRUCKING HOURS AND ASSUMING ALL TRUCKS CONSUME 8 GALLONS PER HOUR. PLEASE REFER TO EIA WEBSITE MIDWEST PADD2

SUBTOTAL	\$1,462.00
SALES TAX	\$10.07
TOTAL	\$1,472,07

MBE Inc, is a DBE / SBE / MBE Contractor

Terms: Net 30 days. 1.50% per month service charge will be assessed on outstanding balances. Accounts must be current before MBE is able to dispatch trucks. Bond not included. No retainage, payment in full.

Notwithstanding any provision to the contrary, we may take all steps reasonably necessary to preserve its lien and bond rights. To the extent permitted by law, the undersigned agrees to pay all costs of collection, including reasonable attorneys' fees and legal expenses, incurred by MBE.

Printed on: Feb 12, 2025 Page 1 of 1



M.B.E., INC. 530 RIVER STREET SOUTH DELANO, MN 55328 (763) 972-9233

INVOICE

BILL TO: PROJECT NUMBER/NAME TERMS DATE INVOICE CUSTOMER JOB NO. NO.

NET 30 2/10/2025 54187

MINGER CONSTRUCTION 620 CORPORATE DRIVE JORDAN, MN 55352

	DESCRIPTION	SERVICE DATE	QTY	U/M	RATE	SALES TAX	AMOUNT
140000	HOURLY TRUCKING QUADS	2/4/2025	1	HR	\$136.00	0.000%	\$136.00
140001	HOURLY TRUCKING QUADS TAXABLE	2/4/2025	3	HR	\$136.00	9.875%	\$408.00
201000	DUMP FEE - DAWNWAY / FRADOR	2/4/2025	2	LD	\$55.00	0.000%	\$110.00
201002	DUMP FEE - OVERSIZED NON-CON	2/4/2025	56	CY	\$18.70	0.000%	\$1,047.20
140000	HOURLY TRUCKING QUADS	2/6/2025	7.5	HR	\$136.00	0.000%	\$1,020.00
140001	HOURLY TRUCKING QUADS TAXABLE	2/6/2025	1.25	HR	\$136.00	9.875%	\$170.00
201002	DUMP FEE - OVERSIZED NON-CON	2/6/2025	42	CY	\$18.70	0.000%	\$785.40
201060	DUMP FEE - DEMO DEBRIS	2/6/2025	70	CY	\$13.20	0.000%	\$924.00
140001	HOURLY TRUCKING QUADS TAXABLE	2/7/2025	2.25	HR	\$136.00	9.875%	\$306.00
201002	DUMP FEE - OVERSIZED NON-CON	2/7/2025	112	CY	\$18.70	0.000%	\$2,094.40

PLEASE NOTE: SERVICE WILL NOT BE PROVIDED WITH OPEN BALANCES EXCEEDING 75 DAYS. PAYMENTS MADE BY CREDIT CARD, WILL BE SUBJECT TO A 3% PROCESSING FEE EFFECTIVE 10/1/2023.

FUEL SURCHARGE WILL BE APPLIED TO ALL TRUCKING INVOICED USING THE CURRENTLY WEEKY FUEL AVERAGE LESS A BASE OF \$5.00 MULTIPLIED BY THE NUMBER OF TRUCKING HOURS AND ASSUMING ALL TRUCKS CONSUME 8 GALLONS PER HOUR. PLEASE REFER TO EIA WEBSITE MIDWEST PADD2

SUBTOTAL	\$7,001.00
SALES TAX	\$87.30
TOTAL	\$7,088,30

MBE Inc, is a DBE / SBE / MBE Contractor

Terms: Net 30 days. 1.50% per month service charge will be assessed on outstanding balances. Accounts must be current before MBE is able to dispatch trucks. Bond not included. No retainage, payment in full.

Notwithstanding any provision to the contrary, we may take all steps reasonably necessary to preserve its lien and bond rights. To the extent permitted by law, the undersigned agrees to pay all costs of collection, including reasonable attorneys' fees and legal expenses, incurred by MBE.

Printed on: Mar 5, 2025 Page 1 of 1

Background Information 2025 Minnesota Watersheds Resolution #1

Proposing Watershed: Coon Creek Watershed District

Contact Name: Tim Kelly **Phone Number**: 763-755-0975

Email Address: Tkelly@cooncreekwd.org

Resolution Title: Resolution Seeking Action For Increasing MDNR And MPCA Permit Efficiency, Requiring State Agencies To Consider Existing And Prior Approved Plans and

Studies, Encouraging Practical And Timely State Agency Input

Background that led to the submission of this resolution:

Lower Coon Creek in Anoka County is on the State impaired waters list. The Coon Creek Watershed District is required to address that impairment and make significant progress in resolving that impairment by 2050.

In September/October 2024 a planned project by the District to restore a large portion of lower Coon Creek was delayed during MPCA and MDNR permit reviews for unspecified reasons. Reaching out to MDNR and MPCA field staff yielded no specifics as to why the delay.

In meetings with senior MDNR and MPCA staff we learned that MDNR conducts both their review of permit application completeness, and project compliance with state standards, at the same time. The result has created an environment of potential never-ending requests for data, information and additional costs with no certainty of obtaining approval.

Efforts to solve the problem:

In January, February and March 2025, Coon Creek Watershed District and Minnesota Watersheds staff met with the MDNR and MPCA commissioners, Division Directors and lead program staff. One of the goals was to review, discuss and work together to clarify and develop a common understanding of the problem and begin to develop a general approach to restructure the context of project discussions and reviews and thereby provide increased certainty and reduced risk for water resource restoration projects.

Those meetings have yet to produce any practical or feasible alternatives or clear or practical paths to reducing the risk and uncertainty in pursuing public projects or the waste of public funds.

Is legislative action the best means of addressing the matter? If yes, what is the purpose or intent of your proposal? If not, what advocacy steps could be taken with state or local government officials?

We believe that legislation is required to

- 1. Change and shape the context of permit reviews
- 2. Clarify the state agencies' roles,
- 3. Provide deference to local water management projects that are the product of a planning or environmental review process, have been reviewed and generally vetted by local and state agencies, coordinated with local, state and federal water management efforts, potentially obtained state funding and gained general approval.

The goal of this effort is to amend Minnesota Statutes 84.027 and Minnesota Statute 116.03. Our intent is to reduce the risk and uncertainty currently associated with vetted public projects and prevent the waste of public funds. To accomplish this, we suggest that:

- That both state agencies be required to accept existing approved plans and studies as sufficient evidence and disclosure on the need and reasonableness of the project
- MDNR and MPCA be required to attend a preapplication meeting to review site specific restraints, constraints, and problems and identify practical and feasible actions for completing the project.
- That the local agency requesting the meeting have plans that are 10% to 20% complete and of sufficient detail to identify specific environmental and natural resource problems, and impacts.
- That failure of the agencies to attend the meeting will constitute a finding by the agency not attending, and that the project sponsor can proceed toward a detailed design that meets state standards and when practical and feasible addresses concerns identified at the meeting

In the end, uncertainty will be reduced by making explicit the requirements for a complete application and the ability to gauge permit review timelines. Risk will be reduced by being able to plan and schedule funding, contract scopes and construction schedules.

Anticipated support or opposition:

Support:

Association of Minnesota Counties
Association of County Highway Engineers
League of Minnesota Cities
Minnesota City Stormwater Coalition
Minnesota Association of Soil and Water Conservation Districts

Opposition:

Minnesota Department of Natural Resources Minnesota Pollution Control Agency Audubon Society

This issue	(check all that apply)	١
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Applies only to our district:		Requires legislative action:	X
Applies only to 1 or 2 regions:		Requires state agency advocacy:	
Applies to the entire state:	X	Impacts MW bylaws or MOPP:	

RESOLUTION SEEKING ACTION FOR INCREASING MDNR AND MPCA PERMIT EFFICIENCY, REQUIRING STATE AGENCIES TO CONSIDER EXISTING AND PRIOR APPROVED PLANS, ENCOURAGING PRACTICAL AND TIMELY STATE AGENCY INPUT

WHEREAS, the Coon Creek Watershed District (District) is a Minnesota special purpose unit of government established and governed under Minnesota Statute 103D and a Watershed Management Organization (WMO) under the Metropolitan Surface Water Management Act (Minnesota Statute 103B), and

WHEREAS, the District is also a Special Municipal Separate Storm Sewer System (MS4) under Minnesota Rules chapter 7090, and

WHEREAS, as an MS4, the District is pursuing the water quality goals, water quality load reductions and restoration of the impaired waters within the District to achieve the state and federally approved total maximum daily loads in a manner that is cost-effective and does not create other natural resource problems, and

WHEREAS, the District has developed a comprehensive watershed management plan and capital improvement program to achieve the state and federal water quality and other goals, including support for the conservation and preservation of endangered species, achievement of the TMDLs within the watershed, and

WHEREAS, that plan and list of capital improvements was reviewed by both the Minnesota Department of Natural Resources and the Minnesota Pollution Control Agency and the District addressed all of the concerns raised during those reviews, and

WHEREAS. following the District response to comments the plan was endorsed by both agencies and approved by the Minnesota Board of Water and Soil Resources, and

WHEREAS, implementation of comprehensive watershed management plans, including support for the conservation and preservation of endangered species, TMDL and restoration of impaired waters can involve direct action and construction such as streambank stabilization, stream channel restoration projects, and reconnection with the floodplain, and

WHEREAS, in order for those projects to be budgeted at the local level, qualify for state grants and be successfully completed, the Board of Water and Soil Resources, the Minnesota Pollution Control Agency and the Minnesota Department of Natural Resources encourage or require those projects be collaborative in nature, consistent with the Storm Water Pollution Prevention Plan,

and specifically referenced in the capital improvement project portion of the comprehensive watershed management plan, and

WHEREAS, implementing those actions and projects may require permits from the Minnesota Pollution Control Agency and/or, Minnesota Department of Natural Resources, and

WHEREAS, the review of those permit applications by the Department of Natural Resources is guided in part by Minnesota Statutes 84.027, subdivisions 14, 14a; and permit applications to the Minnesota Pollution Control Agency are guided by Minnesota Statute 116.03, subdivision 2b, and

WHEREAS, both of these agencies have repeatedly demonstrated and engaged in actions that have ignored the prioritized and mandated natural resource conservation and restoration issues identified in the approved comprehensive watershed management plans, the actions needed to protect public health, safety and infrastructure, have not provided practical or feasible suggestions that address the state agency's apparent concerns, and have delayed administrative action and decision-making by repeatedly requesting additional data and surveys, with no apparent consideration of the additional cost to the public or additional damage to the land or related water resources, and

WHEREAS, the delayed decisions have led to increased water resource damage, increased project costs and discouraged the pursuit and achievement of the mandated state and federal goals delegated to the District, and

WHEREAS, District staff and representatives of the Minnesota Watersheds have met with the Commissioners and key leadership staff of both agencies and our concerns were not adequately addressed or afforded any practical or feasible guidance to work together to reduce the cost, risk and uncertainty of pursuing our mandated goals.

NOW THEREFORE BE IT RESOLVED THAT

Minnesota Watersheds should pursue legislation that addresses these permitting and administrative concerns in a way that provides standing and deference to existing and approved plans and studies, directs the Department of Natural Resources and Pollution Control agencies to develop practical and reasonable permit submittal standards that those agencies will use to determine completeness, requires the agencies to explain why an application may be found not to be complete, identify what is needed and what will be then be used to review the application for consistency with approved standards.

BE IT FURTHER RESOLVED THAT

The Minnesota Department of Natural Resources and Pollution Control Agency should give deference to approved comprehensive and capital improvement plans: Watershed Restoration and Protection Strategy (WRAPS); load reduction, impairment monitoring and other studies, especially studies involving impairments for fish and aquatic life by:

- Considering as prima facie the need and justification for the projects and actions in the above and subsequent state approved plans and studies.
- Holding a pre-application permit review meeting with the qualifying agency on proposed projects or actions in approved plan or studies within 4 weeks of a request by a qualifying agency. A qualifying agency and project is an agency and project that has:
 - a. one or more of the approved documents, plans, studies or requirements listed above.
 - b. approved plans and studies above, plus an approved state or federal grant or other state funding such as bonding intended to wholly or partially fund a project listed in the above documents or intended to address the requirements listed above

BE IT FURTHER RESOLVED THAT

Failure by the Minnesota Department of Natural Resources or Pollution Control Agency to accommodate and attend the pre-application permit review meeting will indicate satisfaction of state standards and approval of the permit.

Background Information

2025 Minnesota Watersheds Resolution #2

Proposing Watershed: Coon Creek Watershed District

Contact Name: Tim Kelly **Phone Number**: 763-755-0975

Email Address: Tkelly@cooncreekwd.org

Resolution Title: Resolution Requiring State Agencies To Develop Specific Practical And

Reasonable Criteria For Determining Permit Application Completeness

Background that led to the submission of this resolution:

Lower Coon Creek in Anoka County is on the State impaired waters list. The District is required to address that impairment and make significant progress in resolving that impairment by 2050.

The District has completed its fourth generation Comprehensive Watershed Management Plan including a capital improvement strategy to restore the creek's water quality. That plan was reviewed by the MDNR and MPCA who then supported its approval, adoption and implementation by the watershed district through grants and technical assistance.

In 2023 the District began to work earnestly on design and funding a project to restore the channel of lower Coon Creek identified in both the 3rd and 4th generation comprehensive plans. The project goal was to make significant progress toward achieving our 2050 water quality responsibilities. The project's intent was to specifically address the fisheries and Aquatic Life impairments by restoring the channel, reconnecting the stream to the floodplain, and restoring floodplain and riparian habitat.

In early 2024, District staff contacted and worked with all concerned local, state and federal agencies to identify any other water resource or environmental concerns and clarify permit requirements. Construction was targeted in a window from the end of November through December to avoid disturbing known threatened and endangered species and to avoid ice up and later fish spawning.

In October 2024 the project was delayed during final MPCA and MDNR permit reviews for unspecified reasons. Conversations with agency staff finally noted a discomfort with the use of rip-rap and concern for the potential presence of Blanding's Turtle, a state threatened species. Beyond these concerns no specifics, suggestions for mitigation or alternative designs were provided.

The project, whose construction dates were planned to avoid impact to known threatened and endangered species in the area, was delayed. The delay created difficulties for the contractor and with grant funding, agreements with partner agencies and property owners, as well as the common understanding with the public and elected officials.

Conversations with staff of MWA, Shell Rock River Watershed, the Red River Board staff and BWSR led to characterizations of MDNR and MPCA "Pocket Vetoing" projects or sending projects to "permit purgatory" where applications lingered with either no communication or an endless series of requests for more data. Applications remained there for months to years. The above agencies surmised that those projects were not subject to the statutory timelines for review because there was no "determination of application completeness".

In December 2024 the District was contacted by Senator Michael Kreun (Anoka County) indicated he was receiving calls from property owners and developers who were able to obtain required permits from the state and seeking information and clarification on the purpose and scope of permits administered by the Minnesota Department of Natural Resources and Minnesota Pollution Control Agency.

In January 2025 the District and Minnesota Watersheds met with Senator Kreun to help him understand the breadth and depth of this issue. At that meeting the District and Minnesota Watersheds had already initiated contact with the Commissioners' offices of both DNR and MPCA.

Efforts to solve the problem:

In January, February and March Coon Creek Watershed District and Minnesota Watersheds staff met with the MDNR and MPCA commissioners, Division Directors and lead program staff to review, discuss and work together on resolving these issues.

During that time, we learned that MDNR conducts both their review of permit application completeness, and their review of project compliance with state standards, at the same time. The result has created an environment of potential never-ending requests for data, information and additional costs with no certainty of obtaining approval.

The District believes that the meetings with MPCA were good and resulted in a common understanding of the problem and practical actions that both MPCA and applicants could take. But additional clarification and scoping would increase certainty and decrease risk to water management projects.

The District has also concluded that the meetings with MDNR have yet to produce any confidence that DNR understands the local agencies dilemma or believes a problem exists. The meetings and communications have to foster any practical or feasible alternatives or clear or

paths or actions for reducing the risk and uncertainty to a public permit applicant engaged in required water resource management projects potentially involving public funds. Those meetings ended in early March with the MDNR expressing a lack of value in continuing the discussions.

In late March 2025, at the MWA's Legislative Briefing, senior staff of BWSR, MDNR and MPCA were asked for guidance on how to proceed when mandated goals followed by planned and reviewed projects that are coordinated and often funded by those agencies, cannot either obtain permits for those projects or find out how those projects could be changed to the agency's satisfaction and impacts mitigated. At that meeting Commissioner Strommen indicated that MDNR would continue discussions.

On April 15 Katies Smith, MDNR Division Director, provided an update on the MDNRs permitting efficiency and timeliness efforts. The update provides general actions and assurances, but no specifics and the process did not involve watershed staff as indicated by Commissioner Strommen in March.

Is legislative action the best means of addressing the matter? If yes, what is the purpose or intent of your proposal? If not, what advocacy steps could be taken with state or local government officials?

We believe that legislation is required to

- 1. Further structure the permit review process by separating the determination of a complete application from review of that applications compliance with established standards
- 2. Compel action to reduce the risk and uncertainty associated with public water resource projects that have been reviewed and generally vetted by both agencies.

Our goal is to amend both Minnesota Statutes 84.027 and Minnesota Statute 116.03. Our intent is to reduce the risk and uncertainty currently associated with agency vetted public water management projects and prevent the waste of public funds. To accomplish this, we suggest that:

- The MDNR and MPCA be required to develop a list of information needed and can be provided as part of a permit application.
- The information listed, once all is provided, serve as the criteria for determining permit application completeness.
- The information provided also serves as the applicant's burden and contribution in determining the proposed project's compliance and consistency with published state standards.

In the end, a clear and reasonable set of submittals should be identified that can be practically and feasibly provided by the applicant, the agencies can quickly determine if the application is complete, and the existing statutory timelines for review and decision making will start.

Anticipated support or opposition:		
Support could be gained from		
Association of Minnesota Counties		
Association of County Highway Engi	neers	
League of Minnesota Cities		
Minnesota City Stormwater Coalition	L	
Minnesota Association of Soil and Wa	ater Conservation Districts	
Opposition could be from: Minnesota Department of Natural Res Minnesota Pollution Control Agency Audubon Society	sources	
This issue (check all that apply)		
Applies only to our district:	Requires legislative action:	X
Applies only to 1 or 2 regions:	Requires state agency advocacy:	
Applies to the entire state:	X Impacts MW bylaws or MOPP:	

RESOLUTION SEEKING ACTION FOR INCREASING DNR AND PCA PERMIT EFFICIENCY AND REQUIRING STATE AGENCIES TO DEVELOP SPECIFIC PRACTICAL AND REASONABLE CRITERIA FOR DETERMINING PERMIT APPLICATION COMPLETENESS

WHEREAS, the Coon Creek Watershed District (District) is a Minnesota special purpose unit of government established and governed under Minnesota Statute 103D and a Watershed Management Organization (WMO) under the Metropolitan Water Management Act (Minnesota Statute 103B), and

WHEREAS, the District has developed a comprehensive watershed management plan and capital improvement program to achieve local, state and federal goals, to conserve and sustain ground water, safe water conveyance, water quality and restoration of impaired water, water quantity and volume reduction, conservation of wetlands and the conservation and preservation of endangered species, within the watershed, and

WHEREAS, implementation of the comprehensive watershed management plan involves a combination of direct and indirect best management practices that may involve construction to build, repair, and/or restore natural features, and

WHEREAS, implementing those practices and projects may require permits from the Minnesota Pollution Control Agency and/or, Minnesota Department of Natural Resources, and

WHEREAS, the review, findings of permit application completeness and timelines for review of those permit applications by the Department of Natural Resources is guided in part by Minnesota Statutes 84.027, subdivisions 14, 14a; and permit applications to the Minnesota Pollution Control Agency are guided by Minnesota Statute 116.03, subdivision 2b, and

WHEREAS, watershed projects state-wide have had projects delayed and found that the review time period was never started, and

WHEREAS, conversation with the DNR has indicated that review of application completeness and compliance with state standards is performed simultaneously resulting in an evasion of the intent of Minnesota Statutes 84.027, subdivisions 14, 14a.

NOW THEREFORE BE IT RESOLVED THAT

Minnesota Watersheds should pursue legislation that addresses these permitting and administrative concerns in a way that provides standing and deference to existing and approved plans and studies, directs the Department of Natural Resources and Pollution Control Agencies to develop practical and reasonable permit submittal standards that those agencies will use to determine completeness, requires the agencies to explain why an application may be found not to be complete, identify what is needed and what will be then be used to review the application for consistency with approved standards.

BE IT FURTHER RESOLVED THAT

Each agency should identify specific information and develop specific criteria to determine the completeness of a permit application and what criteria will also be used to review the permit application's compliance with state approved standards in making the permitting decision.

Background Information 2025 Minnesota Watersheds Resolution #3

Proposing Watershed: Rice Creek Watershed District

Contact Name: Nicholas Tomczik

Phone Number: (763) 398-3079

Email Address: ntomczik@ricecreek.org

Resolution Title: Expanding Wetland Exemption for All Public Drainage Repairs

Background that led to the submission of this resolution:

Describe the problem you wish to solve, provide background information to understand the factors that led to the issue, and explain why the issue is important now. If relevant, attach statutory or regulatory documents.

The Wetland Conservation Act (WCA) currently exempts potential impacts to wetlands that have existed for less than 25 years resulting from public drainage system repairs. However, many public drainage systems state-wide at the discretion of the Drainage Authority have been unmaintained or undermaintained for more than 25 years, and repairs determined to be necessary now or at a future date to these systems can trigger the need for extensive investigation to determine the potential for wetland impact and mitigation requirements. Determining the impacts from public drainage system repairs is inexact at best, and as a result the regulatory pathways to accomplish these repairs are often inconsistent and inconclusive. To address these complications, RCWD would like the WCA to be modified to extend this exemption to all public drainage system repairs. This would simplify regulatory engagement for drainage system repairs and reduce costs for drainage authorities and benefiting landowners.

Balancing efficient drainage repairs with wetland preservation is critical, especially as infrastructure needs grow due to increased flood risks and climate impacts. This issue is important to ensure timely repairs while protecting water resources.

Relevant regulatory documents include Minnesota Statute 103G.2241 and MN Rule 8420.0420, detailing the current exemptions and processes under the WCA.

Efforts to solve the problem:

Document the efforts you have taken to try to solve the issue. For example: have you spoken to state agency staff, legislators, county commissioners, etc.? If so, what was their response?

The RCWD has had extensive dialog with the Board of Water and Soil Resources (BWSR) staff for many years on the topic of evaluating wetland impacts from public drainage system repairs. Recent 2024 legislation attempted to simplify WCA, but did not address this specific issue.

Is legislative action the best means of addressing the matter? If yes, what is the purpose or intent of your proposal? If not, what advocacy steps could be taken with state or local government officials? Describe potential solutions for the problem. Provide references to statutes or rules if applicable.

Yes, legislative action is the appropriate means. The purpose of the proposal is to amend existing statutes to expand the 25-year wetlands exemption to include all public drainage repair activities.

If legislative action is not pursued, advocacy efforts could focus on engaging with local and state officials

to promote administrative modifications or policy adjustments. This might include informing DNR and BWSR of the importance of balancing repair efficiency with wetland preservation, emphasizing the economic and flood mitigation benefits of streamlined repairs.

Potential solutions include:

- Advocating for amendments to Minnesota Statutes 103G.2241 and MN Rules 8420.0420 to expand exemptions.
- Developing policies that support expedited drainage repair approvals without compromising wetland protections.

Anticipated support or opposition:

Who would be willing to partner with your watershed or Minnesota Watersheds on the issue? Who may be opposed to our efforts? (Ex. other local units of government, special interest groups, political parties, etc.)?

Other Watershed Districts that are Drainage Authorities for public drainage systems might support this issue. State agencies such as BWSR or DNR, wetland conservation special interest groups might oppose this effort.

This issue: (check all that apply)	
Applies only to our district	x Requires legislative action
Applies only to 1 or 2 regions	x Requires state agency advocacy
x Applies to the entire state	Impacts Minnesota Watersheds bylaws or MOPP
	(MOPP = Manual of Policies and Procedures)

MN Watersheds 2025 Resolution

Support of Legislative Amendment to Expand the Wetland Conservation Act (WCA) Exemption for Public Drainage System Repairs

WHEREAS, the Wetland Conservation Act (WCA) currently exempts potential impacts to wetlands that have existed for less than 25 years resulting from public drainage system repairs; and

WHEREAS, many public drainage systems statewide, at the discretion of the Drainage Authority, have been unmaintained or undermaintained for more than 25 years; and

WHEREAS, repairs determined to be necessary now or at a future date to these systems can trigger the need for extensive investigation to determine the potential for wetland impact and mitigation requirements; and

WHEREAS, determining the impacts from public drainage system repairs is inexact at best, and as a result, the regulatory pathways to accomplish these repairs are often inconsistent and inconclusive; and

WHEREAS, to address these complications, RCWD proposes that the WCA be modified to extend this exemption to all public drainage system repairs, which would simplify regulatory engagement for drainage system repairs and reduce costs for drainage authorities and benefiting landowners; and

WHEREAS, balancing efficient drainage repairs with wetland preservation is critical, especially as infrastructure needs grow due to increased flood risks and climate impacts; and

WHEREAS, this issue is important to ensure timely repairs while protecting water resources; and

WHEREAS, relevant regulatory documents include Minnesota Statute 103G.2241 and MN Rule 8420.0420, which detail the current exemptions and processes under the WCA; and

WHEREAS, the Rice Creek Watershed District has had extensive dialog with the Board of Water and Soil Resources (BWSR) staff for many years on the topic of evaluating wetland impacts from public drainage system repairs, and recent 2024 legislation attempting to simplify WCA did not address this specific issue; and

WHEREAS, legislative action is the appropriate means of addressing this matter, with the purpose of amending existing statutes to expand the 25-year wetlands exemption to include all public drainage repair activities; and

NOW, THEREFORE, BE IT RESOLVED, that Minnesota Watersheds supports the introduction of new legislation to amend Minnesota Statute 103G.2241 and MN Rule 8420.0420 to expand the WCA exemption to include all public drainage system repairs, and commits its staff to further discussion through the Drainage Work Group in 2025 and to promoting passage of such legislation in upcoming sessions.

Background Information 2025 Minnesota Watersheds Resolution

Proposing Watershed: Bassett Creek Watershed Management Commission

Contact Name: Laura Jester, Administrator

Phone Number: 952-270-1990

Email Address: laura.jester@keystonewaters.com

Resolution Title: Seeking Revision to MN Statute 383B.79 to Include Watershed Management Organizations

Background that led to the submission of this resolution:

Describe the problem you wish to solve, provide background information to understand the factors that led to the issue, and explain why the issue is important now. If relevant, attach statutory or regulatory documents.

MN Statute 383B.79 Multijurisdictional Program gives Hennepin County the ability to create multijurisdictional reinvestment programs in partnership with certain jurisdictions in the county including watershed districts that are wholly or partially in the county. The statute does not include watershed management organizations in the list of jurisdictions allowed to officially participate in these programs.

The Bassett Creek Valley lies in the lower end of the watershed in the city of Minneapolis and receives stormwater runoff from over 20,000 acres of upstream and surrounding drainage areas. It lies within a natural low area that is plagued by historic contamination, poor soils, and high groundwater. In addition, the 100-year floodplain within the Bassett Creek Valley extends up and beyond the creek's channel and into surrounding neighborhood and commercial areas, negatively impacting existing properties and hindering redevelopment opportunities.

Improved conditions in the Bassett Creek Valley are a high priority for the BCWMC. Since 2019, the BCWMC has been working with the City of Minneapolis, Minneapolis Park and Recreation Board, Hennepin County, and other partners to study the valley and develop plans for regional stormwater and floodplain management, ecological improvements, and community access to the creek. The County has expressed interest in convening a multijurisdictional partnership to implement a Community Works Project that would bring together science, partners, community planning, and funding to realize vast improvements in the Bassett Creek Valley. The BCWMC seeks to be an official partner in this endeavor. However, the statute does not provide authority for joint powers watershed management organizations to participate in such endeavors.

Efforts to solve the problem:

Document the efforts you have taken to try to solve the issue. For example: have you spoken to state agency staff, legislators, county commissioners, etc.? If so, what was their response?

No actions have been taken on this issue to date.

Is legislative action the best means of addressing the matter? If yes, what is the purpose or intent of your proposal? If not, what advocacy steps could be taken with state or local government officials? Describe potential solutions for the problem. Provide references to statutes or rules if applicable.

A change to the statute would require legislative action. BCWMC advocates for a change to the statute language to add "watershed management organizations entirely or partially located in Hennepin County" to the list of political subdivisions contained in MN Statutes 383B.79, Subdivision 1.

Anticipated support or opposition:

Who would be willing to partner with your watershed or Minnesota Watersheds on the issue? Who may be opposed to our efforts? (Ex. other local units of government, special interest groups, political parties, etc.)?

Hennepin County is likely to support this resolution. No known opposition.

	Applies only to our district	X Requires legislative action
<u>X</u>	Applies only to 1 or 2 regions	Requires state agency advocacy
	Applies to the entire state	Impacts Minnesota Watersheds bylaws or MOPF
		(MOPP = Manual of Policies and Procedures

MINNESOTA WATERSHEDS RESOLUTION XX Resolution Seeking Revision to MN Statute 383B.79 to Include Watershed Management Organizations

WHEREAS, Minnesota Statute 383B.79 Multijurisdictional Program gives Hennepin County the ability to create multijurisdictional reinvestment programs in partnership with certain political subdivisions in the county, including watershed districts that are wholly or partially in the county; and

WHEREAS, a high priority goal of the Bassett Creek Watershed Management Commission (a joint powers WMO) is to collaborate on evaluation, sequencing, and implementation of multi-beneficial projects within the Bassett Creek Valley to create regional flood storage, reduce floodplain by at least 8 acres, improve regional stormwater management and improve creek access; and

WHEREAS, Hennepin County has expressed interest in utilizing the multijurisdictional program to implement a Community Works Project that would bring together partners, science, community planning, and funding to realize vast improvements in the Bassett Creek Valley; and

WHEREAS, the Bassett Creek Watershed Management Commission wishes to participate as an official jurisdiction on the Community Works Project; and

WHEREAS, Minnesota Statute 383B.79 does not expressly include joint powers watershed management organizations (WMOs) in the list of political subdivisions allowed to officially participate in these programs.

NOW, THEREFORE, BE IT RESOLVED that Minnesota Watersheds seeks a revision to Minnesota Statutes, section 383B.79, Subd 1 to explicitly include "joint powers watershed management organizations entirely or partially located in Hennepin County" to the list of political subdivisions that can participate in the county's

multijurisdictional reinvestment programs.

BACKGROUND INFORMATION ON MINNESOTA WATERSHEDS RESOLUTION 2025-5

Resolution Seeking Rule Language Change to Agree with the Statute Language and Make It Effective (Considering Timeline)

Proposing District: Middle Snake Tamarac Rivers Watershed District

Contact Name: Morteza Maher, District Administrator

Phone Number: 218-230-5703

Email Address: morteza.maher@mstrwd.org

Background that led to the submission of this resolution

Middle-Snake-Tamarac Rivers Watershed District (MSTRWD) proposes that the rare natural communities/Calcareous Fen-related statutes and rules be streamlined so that early RNC screening can eliminate waste of public funds.

In 2016, MSTRWD began the project work team (PWT) process (a process under the 1998 Mediation agreement) on a capital project that was eventually referred to as Lilac Ridge. From the outset, the project's PWT involved representatives from the DNR. During the process, the DNR indirectly stated some concerns about the wetlands in the area but did not mention anything about the presence of Calcareous Fen (which is protected under Minn. Stat. § 103G.223). In December of 2020, USACE under Concurrence Point 3, reviewed alternatives analysis and accepted that the selected alternative was the "Least Environmentally Damaging Practicable Alternative" (LEDPA). By then, the preliminary engineering was mostly done, the PWT process was wrapping up, and the USACE's LEDPA determination triggered the project to move to the EAW process.

In response to the EAW process in July of 2021, the DNR provided a writing that suggested the potential of the existence of Calcareous Fen within the project footprint. (The document did not mention the Calcareous Fen by name, but instead referred to the potential for various types of fens, and only indirectly mentioned the ground water and minerals that feed some kinds of Calcareous Fens).

Knowing the designation of Calcareous Fen as protected, at this point MSTRWD started direct communication with DNR. In subsequent contacts, it was revealed that the DNR believed there was a high likelihood that Calcareous Fen would be found within the footprint of the planned project. Therefore, MSTRWD requested that the DNR make a prompt, solid determination regarding the existence of Calcareous Fen on the site before the district expended further funds and time on the project. In response, the DNR informed the district that it lacked staff to perform such a determination and could not accommodate the district's request but suggested that the district could hire an outside consultant to perform the same.

In response, the district retained a consultant to investigate the site and through coordination with DNR the consultant provided a report. Following submission of the report to the DNR, the agency insisted that it needed to send its experts to the site and confirm the findings of the report. This confirmation process took three more site visits (close to a whole year) due to snow on the ground and staff shortage. Eventually DNR provided a formal letter stating that the area has Calcareous Fen.

The report from the district's consultant did note that the quality of the Calcareous Fen on the site was not high. Since the Calcareous Fen quality based on the third party's report was not high, with

the help of relevant professionals, MSTRWD developed solutions and proposed them to the DNR. In response, the DNR questioned the solutions by offering hypothetical risks. The agency's type of reaction caused MSTRWD to halt the project officially in 2024.

As of this writing, over \$800,000 in taxpayer funds was wasted on this proposed project.

MSTRWD is attempting to collect lessons learned from this project to share with the other interested parties and to apply in future projects. In the past, representatives from the DNR have declared an interest in any chance for improvement of the DNR's processes. MSTRWD has started a review of the statutes and rules related to RNC's, Calcareous Fens, and the disclosure of the existence and location of the same.

Efforts to solve the problem:

MSTRWD has tried to utilize the Flood Damage Reduction Work Group processes to work with DNR on the Lilac Ridge Project specifically. However, after the project stoppage and through the collection of lessons learned process, MSTRWD figured the issue stems from deeper roots and perhaps is not project specific nor it relates to one specific group or Commissioner's time. The issue roots back into incremental either statutory changes through "Rules" that happened in the past perhaps on a good faith, lack of clarity of some or time effect on getting by on things that can be addressed otherwise.

Is legislative action the best means of addressing the matter? If yes, what is the purpose or intent of your proposal? If not, what advocacy steps could be taken with state or local government officials?

Due to its importance and with the hope that this doesn't happen to any other project again, MSTRWD believes this should be addressed in the Statute with a reporting/ accountability creation to it. So, it will not become routine again. In small scale, some concerns were shared with the DNR's NW Region authorities and steps were taken to address them within DNR internally.

Anticipated support or opposition:

This issue (check all that

In general, all Calcareous Fen Related Stakeholders including the DNR, project Sponsors and landowners should be onboard with the proposed resolutions as they are meant to be fair, balanced and inclusive. Even the Environmental group should get onboard as the suggested solutions to safeguard the RNCs is more reliable and sustainable than the current method of enforcement and use of coercive power only. This resolution is bringing to light that word choice is an important part of the rule making that will cause or stop the waste of public funds.

Requires legislative action:
Requires state agency advocacy:
mpacts MW bylaws or MOPP:

WHEREAS, Minn. Stat. § 103G.223 CALCAREOUS FENS states: ... "(a) Calcareous fens, as identified by the commissioner by written order;" and,

WHEREAS, Minn. Rule 8420.0935 Subp. 3. A. states that "[T]he commissioner must investigate wetlands to determine if the wetland is properly identified as a calcareous fen;" and,

WHEREAS, the above rule is relaxing the role of the Commissioner from being responsible to "Identify" with the use of a passive form of sentence. And this is a political escape from responsibility; and

WHEREAS, both Statute and Rule lack a timeline for this identification to be done by. And lack of timeframe could cause waste of public funds just like the way it did on Lilac Ridge project,

NOW, THEREFORE, BE IT RESOLVED that Minn. Rule 8420.0935 Subp. 3. A. be amended as follows: The commissioner must investigate <u>all State</u> wetlands to determine if the wetland is properly and identifyied <u>all as a calcareous fen within the state by no later than Dec. 31, 2030.</u>