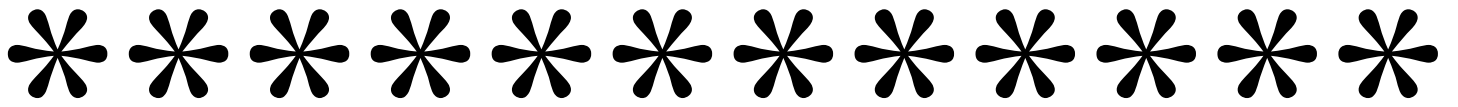




RAMSEY-WASHINGTON
METRO WATERSHED DISTRICT

June 2024 Board Packet



Agenda





Regular Board Meeting Agenda

Wednesday, June 5, 2024

6:30 PM

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

1. Call to Order – 6:30 PM
2. **Approval of Agenda (pg. 3)**
3. **Consent Agenda: To all be approved with one motion unless removed from consent agenda for discussion.**
 - A. Approval of Regular Meeting Minutes May 1, 2024 (pg. 7)
 - B. Treasurer's Report and Bill List (pg. 17)
 - C. Permit Program
 - i. 24-25 Habitat for Humanity Beebe Road, Maplewood (pg. 30)
 - ii. 24-26 Ramsey County Keller Park Tuj Lub Expansion, Maplewood (pg. 35)
 - iii. 24-27 RWMWD Kohlman Creek/County Road C Culvert, Maplewood (pg. 39)
 - iv. 24-28 Sunrise Over Gervais, Little Canada (pg. 43)
 - v. 24-29 Woodland Hills Church Pavement Reduction, Maplewood (pg. 50)
 - vi. 24-30 Doctor G Center, Maplewood (pg. 55)
 - vii. 24-31 Highwood Hills Rec Center Athletic Fields, St. Paul (pg. 59)
 - viii. 24-33 Delaware Place, North St, Paul (pg. 63)
 - D. Stewardship Grant Program
 - i. 24-32 CS Applewood Pointe of Shoreview Phase 2 (pg. 67)
 - E. Woodbury Target Store Targeted Retrofit Project – Change Order No. 2 (pg. 69)
4. Visitor Comments (limited to 4 minutes each)
5. Permit Program
 - A. Applications
 - i. **24-32 Barge Terminal 1 Expansion, St. Paul (pg. 75)**
 - B. Enforcement Action Report (pg. 90)
6. Stewardship Grant Program
 - A. Applications – see consent agenda
 - B. Budget Status Update (pg. 96)
7. Action Items
 - A. **District MS4 Stormwater Pollution Prevention Plan (pg. 98)**
 - B. **County Road C Culvert Flood Risk Reduction Project Bid Award (pg. 131)**
 - C. **2023 District Annual Financial Audit (pg. 132)**
 - D. **Beltline Mississippi River Branch Outfall Replacement Accept Plans and Advertise for Bid (pg. 153)**
 - E. **Cottage Place Wetland Restoration Project Bid Award (pg. 180)**
8. Attorney Report
9. Board Discussion Topics

Board Meeting Agenda

10. New Reports and/or Presentations
 - A. Managing Lake Internal Loads Presentation - Keith Pilgrim, Barr Eng. (pg. 185)
 - B. Tanners Lake, Battle Creek Lake, and McKnight Basin Outlet Operation Plans Scope Summary (informational item) (pg. 198)
11. Administrator's Report (pg. 204)
 - A. Meetings Attended
 - B. Upcoming Meetings and Dates
 - C. Staff Anniversaries
 - D. Board Action Log
 - E. Minnesota Watersheds Updates
 - F. Staff Organizational Chart
12. Project and Program Status Reports (pg. 210)
 - Project Feasibility Studies*
 - A. Ames Lake Area Flood Risk Reduction Planning Study
 - B. Phalen Village Flood Risk Reduction
 - C. Resiliency Study for non-Beltline Tributary Areas
 - D. Owasso Basin/North Star Estates Improvements
 - E. Street Sweeping
 - F. Maplewood Mall 2024 Assessment
 - G. Payne-Phalen Natural Resources Inventory
 - H. Watershed Approach to Retrofit Projects
 - Project Operations*
 - I. Lake-Level Station Maintenance and Rain Gauge Installation
 - Capital Improvements*
 - J. Woodbury Target Store Stormwater Retrofit Project
 - K. Roosevelt Homes
 - L. Targeted Retrofit Projects 2024
 - M. Pioneer Park Stormwater Reuse
 - N. Fish Creek Tributary Improvements
 - O. Cottage Place Wetland Restoration
 - P. County Road C Culvert Project
 - Q. Kohlman Creed Flood Risk Reduction Projects: Final Design
 - CIP Project Repair and Maintenance*
 - R. Routine CIP Inspection and Unplanned Maintenance Identification
 - S. 2024 CIP Maintenance and Repairs Projects
 - T. Beltline Mississippi Branch Outfall Replacement Project
 - Program Updates*
 - U. Natural Resources Program
 - V. Public Involvement and Education Program
 - W. Communications and Outreach Program
13. Manager Comments and Next Month's Meeting
14. **Adjourn**



RAMSEY-WASHINGTON

METRO WATERSHED DISTRICT

NOTICE OF BOARD MEETING

Wednesday, June 5, 2024

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/87866414995?pwd=Mis0T2JleGs4Z3lwZlpuTXdaVjNZQT09>

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 **878 6641 4995**. The meeting password is **698609**. 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 1, 2024**

The Regular Meeting of May 1, 2024, 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/T5Yqn7uR5RU>. Video time stamps included after each agenda item in minutes.

PRESENT:

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

ABSENT:

ALSO PRESENT:

Tina Carstens, District Administrator
Nicole Maras, Permit Coordinator
Laurann Kirschner, Attorney for District
Paul Erdmann, Natural Resources Program Manager
Pat Williamson, Natural Resources Specialist
Joe Tillotson, Natural Resources Technician
Dan Scollan, MnDNR
Matt Hussong, Visitor

Paige Ahlborg, Project Manager
Kyle Kubitza, Water Monitoring Technician
Erin Anderson Wenz, Barr Engineering
Brett Hussong, City of St. Paul
Adriana Atcheson, Washington County
Gabby Menomin, Wakan Tipi Awanyankapi
Dave Vlasin, Watershed Project Coordinator

1. CALL TO ORDER

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

2. APPROVAL OF AGENDA (1:51)

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

Motion carried unanimously.

3. CONSENT AGENDA (2:22)

- A. Approval of Minutes from April 3, 2024
- B. Treasurer's Report and Bill List
- C. Permit Program
 - i. 24-18 The Heights – Habitat for Humanity Blocks 3 & 4
 - ii. 24-19 Companion Animal Control, Oakdale
 - iii. 24-20 Little Canada 2024 SIP – Country Drive, Little Canada
 - iv. 24-21 Roers Apartments, Maplewood
 - v. 24-22 Maplewood 2024 SIP – East Shore Drive, Maplewood
 - vi. 24-23 Oakdale Public Works Facility, Oakdale
 - vii. 24-24 Keller Lake Shoreline Restoration, Maplewood
- D. Stewardship Grant Program
 - i. 24-26 CS Denkinger

ii. 24-27 CS Huberty

E. CIP Maintenance and Repair 2024 - Change Order No. 1

F. Woodbury Target Store Targeted Retrofit Project – Change Order No. 1

Manager Gernes questioned if there would be issues or concerns with timing between permit 24-05 3M Granada Soil Remediation and permit 24-23 Oakdale Public Works Facility.

Nicole Maras explained that the current order is how the work will need to be completed. Nicole explained that the wetland and wetland buffer would be restored as the project moves outward and the final grades made to the site would be where Oakdale starts their project.

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

Motion carried unanimously.

4. VISITOR COMMENTS (4:12)

No comments.

5. PERMIT PROGRAM (4:20)

A. Applications – See consent agenda

B. Monthly Enforcement Report

During the month of April, 13 notices were sent to address: general permit requirements (SWPP, inspection logs) (1), install/maintain perimeter control (2), install/maintain construction entrance (1), stabilize exposed soils (1), contain/dispose of liquid or solid waste (2), install/maintain inlet protection (3), maintain/protect permanent BMPs (1), protect wetlands (1), sweep streets (1).

Nicole Maras provided a review of the monthly enforcement report and provided updates on the permit program. Nicole highlighted the start of this season's intern that will be assisting with BMP inspections for closed permits as well as active construction site inspections.

President Eisele asked for more information on a trench mentioned in the enforcement report under permit #22-33, Ramsey County White Bear Avenue – Larpenteur Avenue improvements.

Manager Gernes questioned if the trench was connected to the storm sewer and wondered if there was a way to plug the connection if the trench is removed.

Nicole Maras stated that she was unsure but additional follow up could be done.

Nicole Maras explained how the trench was found at the White Bear Ave. and Larpenteur intersection during an erosion control walk through. Nicole stated that there will have to be sediment and erosion control measures taken until the structure is removed for the project.

President Eisele questioned if the iron filtration discussed in the report, permit #21-33 Owasso Warehouse (Little Canada), passed the one-hour testing.

Nicole Maras stated that it is a 48 hour draw down, which would be required to close the permit and to verify that it is functioning as designed. Nicole explained the if water is able to sit it reduces the ability of the iron to remove phosphorus. Nicole provided details on how inspections are completed for filtration basins.

6. STEWARDSHIP GRANT PROGRAM (10:44)

A. Applications – See consent agenda

B. Budget Status Update

Paige Ahlborg provided an update on the budget status and stewardship grant program.

Manager Wang asked how people find out about the stewardship grants.

Paige Ahlborg explained that Lauren Hazenson has been doing great outreach work including an article in the Little Canada bulletin as well as the Shoreview bulletin and information will also be included in more upcoming bulletins.

President Eisele asked for more information on the recently approved public art.

Paige Ahlborg explained that the approved art included a piece at Ames Lake as well as a small amount approved for Shoreview's Yard in Bloom signs.

7. **ACTION ITEMS (13:30)**

A. Cottage Place Wetland Restoration Approval of Plans and Authorize for Bid

Paige Ahlborg provided history and updates on the Cottage Place wetland restoration project. Paige explained some of the changes made after public comments included the removal of trails from the plans. Paige detailed the benefits of this project such as debris and buckthorn removal as well as drainage and overall habitat improvements.

Erin Anderson Wenz explained that when debris is found the possibility of contamination is looked into. Erin explained that contingency plans will be put into place in case anything were found during construction and protocols will be followed if that were to happen. Erin noted that the removal of trees may be of concern and explained that it is important to remove the trees so debris can be removed and plant communities can be restored. Erin stated that there will still be a considerable number of trees left and a lot of plantings will be put into the site.

Manager Wang asked what the expected maintenance cost would since the wetland has been overgrown for quite a few years.

Paige Ahlborg explained that the maintenance is something the District would take on as part of the contract or under the maintenance agreement. Paige explained that the contractor could take on the first 3 years of maintenance until it is established.

Erin Anderson Wenz stated that more information would be gathered on the maintenance of the site.

Manager Wang asked for more information on the push back from the residents.

Paige Ahlborg reiterated that most of the push back came from the trail being close to resident's property lines. Paige stated that there was initial concern over the tree removal. Paige explained that tree removal information was provided and expected the concerns to come up since it will be a drastic change.

Erin Anderson Wenz confirmed that the trail was a large point of concern for the residents and explained that once the tree removal was explained it became less concerning.

Manager Wang questioned if there would be any future opportunity for the trail or other passive recreation and educational opportunities for the community.

Erin Anderson Wenz explained that St. Odilia's or the city could install one later if they so wished.

Manager Gernes asked for more information on the project's budget and wondered if money would be coming from a different budget for the next phases. Manager Gernes questioned if debris removal and repair would be coming from that same budget as the wetland restoration.

Tina Carstens explained that the total budget for the project was \$700,000 with \$500,000 being carried over and \$200,000 was levied. Tina explained that all of the aspects of the project are included in the budgeting.

Manager Gernes asked for more information on the hydrology of the location.

Erin Anderson Wenz explained that the inflows would be the same after the project with the difference being the inclusion of culverts and grading to spread the flows out. Erin explained that the outlet would not be changed with the main reason being to not change the 100 year bounce due to nearby homes. Erin went on to provide more details on the hydrology of the site.

Manager Karp encouraged further work on engagement and outreach to gain public access to public lands. Manager Karp noted that he has seen public lands stay cleaner when the public has access.

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

Motion carried unanimously.

B. Budget Transfer Request (CIP Contingency Fund to Debt Service Fund)

Tina Carstens provided details on the budget transfer request.

Motion: Manager Kramer moved, Manager Wang seconded to approve resolution 24-01.

Motion carried unanimously

8. ATTORNEY REPORT (45:31)

Laurann Kirchner gave an overview of the tasks being worked on including continuing to get appraisals for the Fish Creek project, noting that it has been difficult.

Manager Gernes asked what was unique about the Fish Creek project that is causing difficulties in getting an appraisal.

Laurann stated that there are a limited number of appraisers that work with easement specific appraisals and explained that the scope of the appraisal is more complicated than a typical appraisal.

9. BOARD DISCUSSION TOPICS (43:34)

Manager Karp provided details on the topics discussed at the April CAC meeting. Manager Karp noted that the CAC would be moving forward with Low Salt No Salt and Adopt-A-Drain topics for the CAC booth at WaterFest.

President Eisele stated that it would be interesting to add education on care of shorelines at a later time.

Manager Gernes stated that he would like to have more discussion on District communications and outreach in the future.

10. NEW REPORTS AND/OR PRESENTATIONS

A. Phalen Creek Daylighting Project Update and Request to RWMWD - Gabby Menomin (49:49)

Tina Carstens provided an introduction for Gabby Menomin and provided details on what Gabby would be discussing.

Gabby Menomin started the presentation by providing historical information on the route of Phalen Creek and explained its importance to the Dakota people. Gabby explained that around 100 years ago the creek was put into a pipeline to make way for development. Gabby provided history on how Wakan Tipi Awayankapi came to be, noting that it started out as the neighborhood group, Lower Phalen Creek Project, in 1997 to support and provide education on bringing the creek back to the surface. Gabby stated that the goals of daylighting the creek are to reconnect with water and nature, reconnect the Phalen chain of lakes to the Mississippi as well as bringing back natural eco systems and plant medicines and foods that have been lost from the landscape that were historically along the creek path. Gabby provided a timeline of community engagement that has been taking place over the last 20 years. Gabby explained the funding that has been received for phase one of the project, noting that this would be a decade long project to connect back to the Mississippi.

Gabby went on to explain the current conditions of the project location, noting that it is currently open lawn space. Gabby provided information on the culvert designs and weir structure of Lake Phalen, noting that the weir would control the flow into the creek. Gabby continued to explain that there would be a proposal to tie into the District's Beltline stormsewer. Gabby stated that they are anticipating 60% design to be completed in July 2024 with a public engagement event at the end of July and 90% design completed in the fall with 100% design to be completed by early 2025 with bidding to follow with construction starting in spring 2025. Gabby explained that a renaming of the creek would be included and provided a timeline and next steps for the renaming process. Gabby continued on to explain details of the feasibility study memo. Gabby reviewed the design criteria that were considered during the design process including headwater elevation, water source, target creek flow rate between 0-6 CFS. Gabby reviewed the alternatives analysis including tying into the stormwater Beltline stormsewer.

Tina Carstens explained that the alternatives analysis was completed because another outlet to Lake Phalen is proposed for the water source. Tina stated that the DNR required an alternative analysis through the permitting process to look at how the water would be drawn from the lake. Tina explained there was a question of if this could be tied into existing structures with opportunities to pull from there. Tina noted that the option Wakan Tipi Awayankapi found the most viable for the project is to put in a new outlet.

President Eisele asked if this was a project that had been provided a grant from RWMWD in the past.

Paige Ahlborg explained that a grant of \$10,000 had been provided for initial planning work.

President Eisele questioned if this will come through permitting.

Tina Carstens provided details on the role the District would play in this project including permitting, requests to look at operations and maintenance of structures and through the process of connecting to the Beltline stormsewer.

Tina Carstens asked for more details on the ownership of the land.

Gabby Menomin explained that St. Paul Parks and Recreation owns the land at the proposed outlet location. Gabby asked the board to consider having the District take on maintenance of the proposed outlet.

President Eisele asked if the District has partnered with cities in the past when they ask for assistance with maintenance.

Tina Carstens explained that the District maintains and operates outlets because they were installed by the District. Tina explained that the current outlets at Lake Phalen are operated and maintained by the District. Tina stated that the operation and maintenance include checking trash racks and checking the outlet for clogging or debris as well as having controls on the lake and making sure those controls are operating.

Manager Gernes questioned if the proposed outlet would have any controls.

Tina Carstens stated the outlet would likely need to include manual controls due to the nature of the flood risk in this area but that there would not be any automatic controls.

Erin Anderson Wenz included that the creek tying into the Beltline stormsewer would be a topic of discussion.

President Eisele question if the proposed tie in would be under District maintenance.

Tina Carstens explained that maintenance would have to come in as another request and it would be talked through at that time. Tina Carstens noted that the tie into the Beltline stormsewer is the bigger concern with this project.

President Eisele asked how many tap ins to the Beltline stormsewer have been approved in the past.

Tina Carstens explained that there are historical city storm sewer systems that connect into the Beltline stormsewer. Tina state that there has not been a private applicant through the permitting program approved to tie into the Beltline stormsewer. Tina explained that Rule G of the District rules addresses connections to the Beltline stormsewer, which would be looked into.

Manager Karp noted that connections would have a potential to back up in a severe event and he believed this would not be the best solution. Manager Karp questioned if this is envisioned as a temporary connection that later gets closed as the project moves further downstream.

Tina Carstens asked for more information on the future timeline.

Gabby Menomin stated that she could not speak to the exact timeline noting that it would depend on funding and how quickly design could be completed. Gabby noted that the engineers they are working with gave a timeline of 5 to 15 years before construction could be started further downstream.

President Eisele questioned what phase two would look like and asked how the water would be managed back into a channel or creek and into the Mississippi.

Gabby Menomin explained that reaches 5 and 6 have 10% of the design completed and stated they are anticipating that certain sections of the creek will need to be piped due to current infrastructure in the area. Gabby explained that designs for the next phase have not been started yet.

Tina Carstens started that part of reach 6 is within the RWMWD and the rest is within Capitol Region Watershed District. Tina noted that once it gets to reach 6 there would need to be changes made to the Beltline stormsewer in order to get the creek to flow over the Beltline stormsewer, so there would need to be future discussions. Tina stated that is has been asked that InterFluve address how that would work so that there are assurances about the future as well.

Tina Carstens asked the board if there were any concerns or red flags that would prevent moving forward with the outlet plan and if they were comfortable with staff continuing those discussions.

President Eisele questioned Capitol Region Watershed District's involvement on this project.

Gabby Menomin explained that Capitol Region Watershed District has been supportive of the project. Gabby provided details of what they have been working on with CRWD.

Manager Karp stated that he believed this is a great project and showed support but wanted to learn more about long term maintenance costs.

President Eisele stated that he is supportive of the project but also sees red flags with tapping into the Beltline stormsewer and explained that he would like to see more detail.

Brett Hussong stated that the City of St. Paul is supportive of the project and the plan has been accepted by the city. Brett explained that partners will have to work together to implement the project and reiterated that the city is supportive. Brett noted that Met Council is also requiring an amendment to the city's parking planning documents.

Manger Gernes stated that he sees great potential for this project but noted there are more details that need to be worked on.

Manager Wang expressed her support for the project. Manger Wang noted more information on tying into the Beltline stormsewer would need to be provided.

Manager Kramer stated that he thought this was a great project. Manager Kramer expressed concerns with the Beltline stormsewer tie in and asked that more analysis be completed. Manager Kramer stated that if it is found that the Beltline stormsewer tie in cannot happen, that should be said as quickly as possible so alternatives can be found.

Tina Carstens explained that the District has been involved in reviewing each phase of the design noting that comments have been provided while reviewing changes that are made to the plans. Tina agreed that the Beltline stormsewer questions would need to be answered.

President Eisele questioned if redirection of the Beltline stormsewer would be needed.

Tina Carstens explained that the creek would flow over the Beltline stormsewer and in order to get enough clearance for the creek to pass over the Beltline stormsewer the Beltline stormsewer would need to change shape which would include digging out and replacing sections. Tina noted that this would happen in reach 6.

President Eisele agreed that having more information on future phases of the project would be important. President Eisele also stated that a tie in to the Beltline stormsewer could be expensive.

Manager Karp questioned if a permanent tie into the Beltline stormsewer had been looked at.

Tina Carstens stated that for permitting purposes it would have to be considered a permanent connection.

President Eisele requested to have this project added to the program status report.

B. RWMWD Shorelands – Past, Present, and Future – Paul Erdmann (1:28:49)

Paul Erdmann provided an introduction to the presentation including an overview of what will be discussed. Paul started by discussing Minnesota's Vanishing Natural Shorelines: A Loss that Contributes to Degraded Lake Quality, a paper created by the Natural Shoreline Partnership, which includes the DNR, BWSR, watershed districts, conservations districts, and non-profits. Paul discussed that it found that Minnesota's natural shorelines are decreasing. Paul provided details on how reduced number of natural shorelines affects lake water quality. Paul provided information on recommendations given in the report that included education and enhanced funding to support shoreland protection. Paul went on to provide history on the District's work with native plantings and shoreline restoration and explained what is currently being done to promote shoreline restorations on public and private lands. Paul provided details on the Lake Phalen shoreland restoration project, stating that it has been one of the most successful restorations to date. Paul noted that maintenance is a large part of keeping it successful. Paul continued on to provide information on research and publication projects that were worked on by the District and explained how those helped to prioritize projects and help fund restorations on private land.

Pat Williamson provided an overview of the stewardship grant program and how it is utilized to motivate landowners to install natural shorelines while also providing education. Pat explained the grant amounts have increased and the program has expanded. Pat highlighted how that it is not just funding the land owners are receiving they also receive help with planning and site consultations as well as guidance after a project is completed. Pat explained that over the 16 years of the program 90 projects have been completed with \$170,000 being awarded for shoreland restoration in 2023 alone. Pat provided information on the maintenance grant that is available to those who were awarded a stewardship grant. Pat explained that depending on the land type the maintenance required is 5 years or 20 years. Pat provided details on the funding available through the maintenance grant and also the support given by the District. Pat continued to explain the importance of maintenance after a restoration.

Paul Erdmann concluded the presentation by talking about the importance of continuing to grow partnerships, continue looking for publicly owned lands where restorations can happen, collaborating with the stewardship grant program and community outreach to continue completing successful private land restorations and achieving healthy ecosystems.

President Eisele requested to see the amount of shoreland that has been restored and how much more there is to go.

Tina Carstens stated that staff will look at a plan for completing that assessment and bring it back to the board.

Manager Gernes stated that it would be great to assess the shoreland to help be in a better position when doing outreach.

Tina Carstens stated that a priority lake could be chosen and then an assessment could be completed of that lake to best plan on how to complete restorations. Tina appreciated the feedback and stated that a plan could be worked on.

Manager Wang questioned what kind of outreach can be done to help landowners understand the importance of shoreline restorations.

Paul Erdmann agreed that communicating the importance is an integral part of being able to complete shoreline restorations. Paul highlighted some programs and outreach that have been done to help land owners gain interest in shoreline restorations.

C. Maplewood Mall Assessment 2024 Scope Summary

Manager Gernes questioned what the intended outcome for this project is.

Erin Anderson Wenz explained that this was a significant project for the District and detailed what has been evaluated so far. Erin explained that there is work that needs to be done and thorough assessment is needed to find what repairs would be appropriate and also to report to those in the greater community who have been watching the project over the years.

11. ADMINISTRATOR'S REPORT (2:09:14)

A. Meetings Attended

No comments.

B. Upcoming Meetings and Dates

Tina Carstens reviewed the upcoming meetings and dates.

C. Staff Anniversaries

No comments.

D. Board Action Log

No comments.

E. Minnesota Watersheds Updates

No comments.

F. West Vadnais Lake Discussion

Tina Carstens provided an overview of the history and current standing of the West Vadnais Lake boundary change and proposed holding off on a boundary change at this point.

President Eisele provided more history on the interactions with Vadnais Lake Area Watershed Management Organization and provided insights into prior board discussions on the boundary change. President Eisele encouraged a purposeful approach to planning. President Eisele expressed support for Tina Carsten's recommendations with the understanding that our new watershed management plan will clearly identify West Vadnais Lake and its importance in the District flow path as well as the roles and responsibilities between the District and the Vadnais Lake Area Watershed Management Organization. The rest of the board concurred.

12. PROJECT AND PROGRAM STATUS REPORTS (2:25:39)

Project Feasibility Studies

- A. Kohlman Creek Flood Risk Feasibility Study
- B. Ames Lake Area Flood Risk Reduction Planning Study
- C. Phalen Village Flood Risk Reduction
- D. Resiliency Study for Non-Beltline Tributary Areas
- E. Owasso Basin/North Start Estates Improvements
- F. Street Sweeping
- G. Watershed Approach to Retrofit Projects (WARP)

Lake Studies/Total Maximum Daily Load (TMDL) Reports

- H. 2024 Grant Applications

Capital Improvements

- I. Woodbury Target Store Stormwater Retrofit Project
- J. Roosevelt Homes
- K. Targeted Retrofit Projects 2024
- L. Stewardship Grant Program
- M. Pioneer Park Stormwater Reuse
- N. Fish Creek Tributary Improvements
- O. Cottage Place Wetland Restoration
- P. County Road C Culvert Project
- Q. Kohlman Creek Flood Risk Reduction Projects: Final Design

CIP Project Repair and Maintenance

- R. Routine CIP Inspection and Unplanned Maintenance Identification
- S. 2024 CIP Maintenance and Repairs Project
- T. Beltline Mississippi Branch Outfall Replacement Project

Program Updates

- U. Natural Resources Program
- V. Public Involvement and Education Program
- W. Communications and Outreach Program
- X. Citizen Advisory Committee Program

13. MANAGER COMMENTS AND NEXT MONTH'S MEETING (2:28:40)

No comments.

14. ADJOURN

Motion: Manager Karp moved, Manager Gernes seconded, to adjourn the meeting at 8:40 p.m. Motion carried unanimously.

DRAFT

RWMWD BUDGET STATUS REPORT

Administrative & Program Budget

Fiscal Year 2024

5/31/2024

Budget Category	Budget Item	Account Number	Original Budget	Budget Transfers	Current Month Expenses	Year-to-Date Expenses	Current Budget Balance	Percent of Budget
Manager	Per Diems	4355	\$7,000.00	-	-	-	\$7,000.00	0.00%
	Manager Expenses	4360	3,000.00	-	-	-	3,000.00	0.00%
Committees	Committee/Bd Mtg. Exp.	4365	4,000.00	-	102.85	554.84	3,445.16	13.87%
	Sub-Total: Managers/Committees:		\$14,000.00	\$0.00	\$102.85	\$554.84	\$13,445.16	3.96%
Employees	Staff Salary/Taxes/Benefits	4010	2,000,000.00	-	141,222.61	741,965.48	1,258,034.52	37.10%
	Employee Expenses	4020	10,000.00	-	4,593.42	5,284.43	4,715.57	52.84%
	District Training & Education	4350	75,000.00	-	455.00	15,712.62	59,287.38	20.95%
	Sub-Total: Employees:		\$2,085,000.00	\$0.00	\$146,271.03	\$762,962.53	\$1,322,037.47	36.59%
Administration/ Office	Data Base/GIS Maintenance	4170	20,000.00	-	326.40	2,299.30	17,700.70	11.50%
	Office Equipment Maintenance	4305	2,000.00	-	-	-	2,000.00	0.00%
	Telephone	4310	2,000.00	-	201.38	1,055.45	944.55	52.77%
	Office Supplies	4320	7,000.00	-	844.35	1,972.25	5,027.75	28.18%
	Postage/Delivery	4330	2,000.00	-	546.53	690.08	1,309.92	34.50%
	Printing/Copying	4335	5,000.00	-	-	1,782.81	3,217.19	35.66%
	Dues & Publications	4338	17,000.00	-	85.00	13,120.00	3,880.00	77.18%
	Janitorial/Trash Service	4341	15,000.00	-	2,032.54	9,637.85	5,362.15	64.25%
	Utilities	4342	20,000.00	-	2,223.87	9,731.48	10,268.52	48.66%
	Building Maintenance	4343	100,000.00	-	2,204.94	12,214.63	87,785.37	12.21%
	Miscellaneous	4390	5,000.00	-	-	-	5,000.00	0.00%
	Insurance	4480	65,000.00	-	-	46,002.00	18,998.00	70.77%
	Office Equipment	4703	80,000.00	-	703.99	16,931.61	63,068.39	21.16%
	District Vehicles/Maintenance	4810-40	60,000.00	-	967.99	2,644.99	57,355.01	4.41%
	Metro INET	4325	100,000.00	-	8,358.75	40,917.70	59,082.30	40.92%
	Sub-Total: Administration/Office:		\$540,000.00	-	\$18,495.74	\$159,000.15	\$340,999.85	29.44%
Consultants/ Outside Services	Auditor/Accounting	4110	80,000.00	-	4,042.40	15,493.85	64,506.15	19.37%
	Engineering-Administration	4121	122,000.00	-	7,014.00	40,385.34	81,614.66	33.10%
	Engineering-Permit I&E	4122	10,000.00	-	2,475.66	2,894.16	7,105.84	28.94%
	Engineering-Review	4123	75,000.00	-	6,665.00	22,411.00	52,589.00	29.88%
	Engineering-Permit Application Review	4124	65,000.00	-	7,688.00	31,609.50	33,390.50	48.63%
	Project Feasibility Studies	4129	260,000.00	-	11,501.65	44,198.87	215,801.13	17.00%
	Attorney-Permits	4130	5,000.00	-	-	-	5,000.00	0.00%
	Attorney-General	4131	40,000.00	-	2,035.00	12,227.20	27,772.80	30.57%
	Outside Consulting Services	4160	40,000.00	-	-	-	40,000.00	0.00%
	Sub-Total: Consultants/Outside Services:		\$697,000.00	\$0.00	\$41,421.71	\$169,219.92	\$527,780.08	24.28%
Programs	WMP/Lakes/TMDLs/Grants	4661	154,500.00	-	510.00	14,863.50	139,636.50	9.62%
	Natural Resources Program	4670	120,000.00	-	1,991.38	11,570.71	108,429.29	9.64%
	Water Monitoring Program	4520-30	285,000.00	-	35,997.15	167,886.63	117,113.37	58.91%
	Outside Program Support	4683	57,000.00	-	3,369.33	14,869.33	42,130.67	26.09%
	Research Projects	4695	150,000.00	-	3,397.00	51,336.50	98,663.50	34.22%
	Project Operations	4650	150,000.00	-	14,755.58	41,901.99	108,098.01	27.93%
	Communication/Outreach/Events	4371	166,000.00	-	26,385.06	62,265.35	103,734.65	37.51%
	Health and Safety Program	4697	4,000.00	-	177.05	740.24	3,259.76	18.51%
	Sub-Total: Programs:		\$1,086,500.00	\$0.00	\$86,582.55	\$365,434.25	\$721,065.75	33.63%
GENERAL FUND TOTAL			\$4,382,500.00	\$0.00	\$292,873.88	\$1,457,171.69	\$2,925,328.31	33.25%
CIP's	Project Repair & Maintenance	516	2,125,000.00	-	132,024.75	403,156.92	1,721,843.08	18.97%
	Targeted Retrofit Projects	518	1,950,000.00	-	94,694.10	202,293.69	1,747,706.31	10.37%
	Flood Risk Reduction Fund	520	5,400,000.00	-	18,497.70	164,110.55	5,235,889.45	3.04%
	Debt Services-Beltline/Maplewood Mall	526	394,963.00	-	-	279,481.40	115,481.60	70.76%
	Stewardship Grant Fund	529	1,250,000.00	-	11,053.36	155,802.95	1,094,197.05	12.46%
	Fish Creek Tributary Improvements	537	1,375,000.00	-	1,522.00	25,094.00	1,349,906.00	1.83%
	Wetland Restoration Projects	540	700,000.00	-	-	-	700,000.00	0.00%
CIP BUDGET TOTAL			\$13,194,963.00	-	\$257,791.91	\$1,229,939.51	\$11,965,023.49	9.32%
TOTAL BUDGET			\$17,577,463.00	\$0.00	\$550,665.79	\$2,687,111.20	\$14,890,351.80	15.29%

Current Fund Balances:							
Fund:	Unaudited Beginning Fund Balance @ 12/31/23	Fund Transfers	Year to date Revenue	Current Month Expenses	Year to Date Expense	Unaudited Fund Balance @ 5/31/24	
101 - General Fund	\$3,125,440.06	-	214,775.65	292,873.88	1,457,171.69	1,883,044.02	
516 - Project Repair & Maintenance	872,232.70	-	782.52	132,024.75	403,156.92	469,858.30	
518 - Targeted Retrofit Projects	476,410.31	-	71,824.32	94,694.10	202,293.69	345,940.94	
520 - Flood Risk Reduction Fund	4,726,296.76	-	55,029.93	18,497.70	164,110.55	4,617,216.14	
526 - Debt Services-Beltline/Maplewood Mall	157,575.04	-	-	-	279,481.40	(121,906.36)	
529 - Stewardship Grant Fund	201,659.15	-	894.31	11,053.36	155,802.95	46,750.51	
536 - Stormwater Impact Fund	1,336,819.50	-	84,053.00	-	-	1,420,872.50	
537 - Fish Creek Tributary Improvements	121,092.62	-	223.58	1,522.00	25,094.00	96,222.20	
540 - Wetland Restoration Projects	498,036.00	-	-	-	-	498,036.00	
580 - Contingency Fund	1,465,487.00	-	-	-	-	1,465,487.00	
Total District Fund Balance	\$12,981,049.14	\$0.00	\$ 427,583.31	\$ 550,665.79	\$2,687,111.20	\$10,721,521.25	

Ramsey Washington Metro Watershed Dist.
Check Register
For the Period From May 1, 2024 to May 31, 2024

Check #	Date	Payee ID	Invoice #	Payee	Description	Amount
EFT	05/02/24	hea002	Jun-24	HealthPartners	Employee Benefits	\$14,488.61
EFT	05/01/24	met008	May-24	MetLife-Group Benefits	Employee Benefits	1,664.26
EFT	05/07/24	qwe001	May-24	CenturyLink	Project Operations	279.91
EFT	05/09/24	usb005	May-24	US Bank Equipment Finance	Postage/Delivery	402.98
EFT	05/09/24	usb002	May 9, 2024	U.S. Bank	Various	7,709.67
EFT	05/23/24	usb002	May 23, 2024	U.S. Bank	Various	264.00
EFT	05/23/24	tra004	WF24	Translations in Motion	Communications/Outreach/Events	375.00
74507V	05/01/24	gra005	WEB2489607841	Grainger	Natural Resources Program	(\$68.52)
74592	05/07/24	ada002	3890683	Adam's Pest Control, Inc.	Utilities/Building Services Contracts	94.72
74593	05/07/24	aws001	S1335957-050124	AWS Service Center	Janitorial/Trash/Plowing/Sweeping	321.87
74594	05/07/24	cit001	1/1 to 3/31/2024	City of Little Canada	Utilities/Building Services Contracts	251.53
74595	05/07/24	ess003	3252024	The Essence Event Center	Communications/Outreach/Events	5,000.00
74596	05/07/24	gi1001	6/19/70	Gilbert Mechanical Contractors	Building/Site Maintenance	1,209.36
74597	05/07/24	hom001	03/28/24	Home Depot Credit Services	Natural Resources Program	472.64
74598	05/07/24	ncp001	5/1/24	NCPERS Group Life Ins.	Employee Benefits	16.00
74599	05/07/24	nsp001	874521169	Xcel Energy	Utilities/Building Services Contracts	2,426.50
74600	05/07/24	ons001	278074	Onset Computer Corporation	Water Monitoring Program	364.15
74601	05/07/24	pre003	310068553	Premium Waters, Inc.	Utilities/Building Services Contracts	34.00
74602	05/07/24	rec002	4142	Rectangle Designs, LLC	Communications/Outreach/Events	1,000.00
74603	05/07/24	stp011	21-02 MTN	St. Peter's School	Stewardship Grant Program	187.36
74604	05/07/24	stu001	2019884	Studio Lola	Communications/Outreach/Events	3,743.75
74605	05/07/24	usb002	April 2024 Statement	U.S. Bank	Apr/May Credit Card Expense	2,467.91
74606	05/07/24	voy001	8692934232417	US Bank Voyager Fleet Sys.	Vehicle Fuel	369.10
74607	05/07/24	was002	6474, 6506	Washington Conservation District	Water Monitoring Program	3,511.83
74362V	05/08/24	usb005	514546993-23	US Bank Equipment Finance	Printing	(294.00)
74608	05/29/24	at002	287256653401X05252024	AT & T Mobility - ROC	Project Operations	164.54
74609	05/29/24	bar001	April 13 to May 17, 2024	Barr Engineering	Various	192,627.61
74610	05/29/24	bat002	P72678082	Batteries Plus Bulbs	Water Monitoring Program	895.60
74611	05/29/24	ber009	May-24	Bjorn Bergerson	Employee Expenses	107.90
74612	05/29/24	bfg001	2603901-00	BFG Supply Co., LLC	Communications/Outreach/Events	17.60
74613	05/29/24	bws001	MWPCP	MN Board of Water & Soil Resources	Training and Education	60.00
74614	05/29/24	cad001	20557212	Zayo Group, LLC	Water Monitoring Program	202.27
74615	05/29/24	cen006	901314	Century Power Sports & Equipment	Natural Resource Program	69.99
74616	05/29/24	chi004	WF24	Chicks on Sticks	Communications/Outreach/Events	150.00
74617	05/29/24	chr001	20-04 MTN	Christ Episcopal Church	Stewardship Grant Program	1,000.00
74618	05/29/24	com004	May 2024	Comcast	Utilities/Building Services Contracts	109.93
74619	05/29/24	dav003	9000047347	Davey Resource Group, Inc.	Construction Improvements/Project Maint & Rep.	4,429.50
74620	05/29/24	deb001	WF24	Deborah DeBellis	Communications/Outreach/Events	880.00
74621	05/29/24	fis003	WF24	Fishing for Life	Communications/Outreach/Events	300.00
74622	05/29/24	fit001	Progress Payment #4	Fitzgerald Excavating & Trucking, Inc.	Construction Imp.- Maint. & Repair	58,992.72
74623	05/29/24	fit002	Apr-24	Mary Fitzgerald	Employee Benefits, Expenses	858.53
74624	05/29/24	fit003	May 2024	Emily F. Kamin	Employee Benefits, Expenses	807.02
74625	05/29/24	fle001	112295	Flemings Auto Service	Vehicle Maintenance	59.20
74626	05/29/24	gal001	May 23, 2024	Galowitz Olson, PLLC	Attorney-General	2,035.00
74627	05/29/24	gra001	WF24	Rick Gravrok	Communications/Outreach/Events	200.00
74628	05/29/24	gra005	9118917310	Grainger	Water Monitoring Program	230.92
74629	05/29/24	haw001	6755212	Hawkins, Inc.	Water Monitoring Program	18,168.40
74630	05/29/24	hen003	May-24	Emma Henry	Employee Expenses	29.61
74631	05/29/24	int001	W24040495	Office of MN, IT Services	Telephone	59.38
74632	05/29/24	jad001	WF24	Anita Jader Photography	Communications/Outreach/Events	200.00
74633	05/29/24	jor001	WF24	Kathryn Jordan	Communications/Outreach/Events	250.00
74634	05/29/24	klo001	April/May 2024	Kendra L. Kloth	Employee Expenses	71.42
74635	05/29/24	kub001	May-24	Kyle W. Kubitza	Employee Benefits, Expenses	83.75
74636	05/29/24	kur001	Progress Pmt #1	Kurilla Contracting Company	Construction Imp./Targeted Retrofit Projects	30,200.50
74637	05/29/24	mbc001	1188	MBohn Consulting, LLC.	Communications/Outreach/Events	5,000.00
74638	05/29/24	mel001	April/May 2024	Michelle L. Melsner	Employee Benefits, Expenses	48.24
74639	05/29/24	met012	1909	Metro-INET	Telephone	8,211.00
74640	05/29/24	mey001	May-24	Sommer Meyer	Employee Expenses	62.82
74641	05/29/24	nsp001	878591799	Xcel Energy	Building/Site Maintenance	548.85
74642	05/29/24	pac001	5/24	Pace Analytical Services, Inc.	Water Monitoring Program	13,253.00
74643	05/29/24	pas002	April/May 2024	Carol Passi	Employee Benefits, Expenses	763.09
74644	05/29/24	pit001	3106653998	Pitney Bowes Global Financial Serv LLC	Postage/Delivery	143.55
74645	05/29/24	pra001	2412820600	Prairie Moon Nursery, Inc.	Communications/Outreach/Events	330.02
74646	05/29/24	rec002	4142-2nd part	Rectangle Designs, LLC.	Communications/Outreach/Events	850.00
74647	05/29/24	red002	150486905	Redpath & Company, LLC.	Accounting	3,869.50
74648	05/29/24	red003	20240510043028	Red Wing Business Advantage Account	Employee Benefits	386.99
74649	05/29/24	rel001	330624	Reliakor Services	Stewardship Grant Program	7,514.50
74650	05/29/24	roc001	3086	Rock Leaf Water Environmental LLC	Construction Improvements/Project Maint & Rep.	10,789.32
74651	05/29/24	sar003	050224	Sandstrom Land Management	Construction Improvements/Project Maint & Rep.	4,467.50
74652	05/29/24	shi001	B989515; B989430; B966370	SHI International Corp.	Equipment	672.00
74653	05/29/24	sod001	Apr-24	Nicole Maras	Employee Benefits, Expenses	84.84
74654	05/29/24	stp012	23-06 MTN	St. Paul Urban Tennis	Stewardship Grant Program	392.50
74655	05/29/24	stu001	2019902	Studio Lola	Communications/Outreach/Events	1,387.00
74656	05/29/24	til002	May-24	Joseph S. Tillotson	Employee Benefits, Expenses	187.83
74657	05/29/24	tla001	WF24	Kalpulli Tlaloctecuhli	Communications/Outreach/Events	800.00
74658	05/29/24	tot002	8779-WF 2nd part	Total Entertainment / Kidsdance	Communications/Outreach/Events	750.00
74659	05/29/24	uli001	178246856	Uline	Health & Safety Program	192.22
74660	05/29/24	voy001	5/23/24	US Bank Voyager Fleet Sys.	Vehicle Fuel	539.69
74661	05/29/24	was002	6516	Washington Conservation District	Stewardship Grant Program	1,504.00
74662	05/29/24	wil007	May-24	Patrick Williamson	Employee Benefits, Expenses	88.24
Total						\$422,390.72

Ramsey Washington Metro Watershed Dist.
Check Register
For the Period From May 1, 2024 to May 31, 2024

Check #	Date	Payee ID	Invoice #	Payee	Description	Amount
EFT	05/10/24	myp001	05/10/24	May 10th Payroll	4110-101-000	84.25
EFT	05/24/24	myp001	05/24/24	May 24th Payroll	4110-101-000	88.65
Dir.Dep.	05/10/24	---	Payroll Expense-Net	May 10th Payroll	4010-101-000	34,328.44
EFT	05/10/24	int002	Internal Rev.Serv.	May 10th Federal Withholding	2001-101-000	12,416.57
EFT	05/10/24	mnd001	MN Revenue	May 10th State Withholding	2003-101-000	2,067.13
EFT	05/10/24	per001	PERA	May 10th PERA	2011-101-000	6,937.45
EFT	05/10/24	emp002	Empower Retirement	Employee Def. Comp. Contributions	2016-101-000	1,948.00
EFT	05/10/24	emp002	Empower Retirement	Employee IRA Contributions	2018-101-000	1,879.00
Dir.Dep.	05/24/24	---	Payroll Expense-Net	May 24th Payroll	4010-101-000	37,371.77
EFT	05/24/24	int002	Internal Rev.Serv.	May 24th Federal Withholding	2001-101-000	13,309.52
EFT	05/24/24	mnd001	MN Revenue	May 24th State Withholding	2003-101-000	2,241.28
EFT	05/24/24	per001	PERA	May 24th PERA	2011-101-000	7,351.15
EFT	05/24/24	emp002	Empower Retirement	Employee Def. Comp. Contributions	2016-101-000	1,948.00
EFT	05/24/24	emp002	Empower Retirement	Employee IRA Contributions	2018-101-000	1,879.00
Payroll/Benefits:						<u>\$123,850.21</u>
Total						Accounts Payable/Payroll/Benefits: <u>\$546,240.93</u>

Ramsey Washington Metro Watershed Dist.
Cash Disbursements Journal
For the Period From May 1, 2024 to May 31, 2024

Date	Check #	Vendor ID	Name	Account ID	Description	Amount
05/02/24	EFT	hea002	HealthPartners	4040-101-000	Employee Benefits	\$14,488.61
05/01/24	EFT	met008	MetLife-Group Benefits	4040-101-000	Employee Benefits	1,664.26
05/07/24	EFT	qwe001	CenturyLink	4650-101-000	Project Operations	279.91
05/09/24	EFT	usb005	US Bank Equipment Finance	4330-101-000	Postage/Delivery	402.98
05/09/24	EFT	usb002	U.S. Bank			7,709.67
				4371-101-000	Communications/Outreach/Events	\$100.00
				4320-101-000	Office Supplies	\$41.55
				4325-101-000	Roseville IT Services/Web Site/Software/Licenses	\$93.30
				4670-101-000	Natural Resources Program	-\$239.91
				4343-101-000	Building/Site Maintenance	\$224.00
				4320-101-000	Office Supplies	\$7.59
				4171-101-000	District Database Project/GIS Maintenance	\$160.00
				4320-101-000	Office Supplies	\$144.05
				4650-101-000	Project Operations	\$303.05
				4371-101-000	Communications/Outreach/Events	\$21.07
				4040-101-000	Employee Benefits	\$172.85
				4325-101-000	Roseville IT Services/Web Site/Software/Licenses	\$99.99
				4670-101-000	Natural Resources Program	\$10.22
				4697-101-000	Health and Safety Program	\$14.64
				4371-101-000	Communications/Outreach/Events	\$47.32
				4343-101-000	Building/Site Maintenance	29.94
				4371-101-000	Communications/Outreach/Events	72.89
				4371-101-000	Communications/Outreach/Events	5.99
				4371-101-000	Communications/Outreach/Events	25.00
				4371-101-000	Communications/Outreach/Events	607.87
				4371-101-000	Communications/Outreach/Events	308.52
				4371-101-000	Communications/Outreach/Events	40.99
				4530-101-000	Water Monitoring Program	200.50
				4371-101-000	Communications/Outreach/Events	35.98
				4371-101-000	Communications/Outreach/Events	280.95
				4371-101-000	Communications/Outreach/Events	17.99
				4670-101-000	Natural Resources Program	160.44
				4320-101-000	Office Supplies	60.00
				4371-101-000	Communications/Outreach/Events	301.00
				4371-101-000	Communications/Outreach/Events	26.97
				4670-101-000	Natural Resources Program	11.99
				4697-101-000	Health and Safety Program	16.99
				4371-101-000	Communications/Outreach/Events	48.00
				4371-101-000	Communications/Outreach/Events	45.00
				4371-101-000	Communications/Outreach/Events	435.00
				4371-101-000	Communications/Outreach/Events	49.02
				4320-101-000	Office Supplies	47.56
				4365-101-000	Committee/Board Meeting Expenses	82.49
				4371-101-000	Communications/Outreach/Events	157.31
				4670-101-000	Natural Resources Program	675.91
				4530-101-000	Water Monitoring Program	154.46

Ramsey Washington Metro Watershed Dist.
Cash Disbursements Journal
For the Period From May 1, 2024 to May 31, 2024

Date	Check #	Vendor ID	Name	Account ID	Description	Amount
				4371-101-000	Communications/Outreach/Events	8.63
				4371-101-000	Communications/Outreach/Events	260.35
				4670-101-000	Natural Resources Program	327.00
				4530-101-000	Water Monitoring Program	257.00
				4670-101-000	Natural Resources Program	490.36
				4530-101-000	Water Monitoring Program	70.25
				4343-101-000	Building/Site Maintenance	34.41
				4365-101-000	Committee/Board Meeting Expenses	20.36
				4670-101-000	Natural Resources Program	26.11
				4320-101-000	Office Supplies	99.24
				4343-101-000	Building/Site Maintenance	28.16
				4670-101-000	Natural Resources Program	59.99
				4371-101-000	Communications/Outreach/Events	3.20
				4320-101-000	Office Supplies	39.00
				4320-101-000	Office Supplies	106.97
				4371-101-000	Communications/Outreach/Events	780.16
05/23/24	EFT	usb002	U.S. Bank	4670-101-000	Natural Resources Program	264.00
05/23/24	EFT	tra001	Translations in Motion	4371-101-000	Communications/Outreach/Events	375.00
05/01/24	74507V	gra005	Grainger	4670-101-000	Natural Resources Program	(\$68.52)
05/07/24	74592	ada002	Adam's Pest Control, Inc.	4342-101-000	Utilities/Building Services Contracts	94.72
05/07/24	74593	aws001	AWS Service Center	4341-101-000	Janitorial/Trash/Plowing/Sweeping	321.87
05/07/24	74594	cit001	City of Little Canada	4342-101-000	Utilities/Building Services Contracts	251.53
05/07/24	74595	ess003	The Essence Event Center	4371-101-000	Communications/Outreach/Events	5,000.00
05/07/24	74596	gil001	Gilbert Mechanical Contractors	4343-101-000	Building/Site Maintenance	1,209.36
05/07/24	74597	hom001	Home Depot Credit Services			472.64
				4670-101-000	Natural Resources Program	398.73
				4530-101-000	Water Monitoring Program	36.05
				4343-101-000	Building/Site Maintenance	31.33
				4630-516-000	Construction Improvements/Project Maintenance & Repair	6.53
05/07/24	74598	nep001	NCPERS Group Life Ins.	4040-101-000	Employee Benefits	16.00
05/07/24	74599	nsp001	Xcel Energy			2,426.50
				4530-101-000	Water Monitoring Program	500.61
				4342-101-000	Utilities/Building Services Contracts	1,733.69
				4650-520-000	Project Operations/Flood Damage Reduction Fund	192.20
05/07/24	74600	ons001	Onset Computer Corporation	4530-101-000	Water Monitoring Program	364.15
05/07/24	74601	pre003	Premium Waters, Inc.	4342-101-000	Utilities/Building Services Contracts	34.00
05/07/24	74602	rec002	Rectangle Designs, LLC	4371-101-000	Communications/Outreach/Events	1,000.00
05/07/24	74603	stp011	St. Peter's School	4682-529-000	Stewardship Grant Program	187.36
05/07/24	74604	stu001	Studio Lola	4371-101-000	Communications/Outreach/Events	3,743.75
05/07/24	74605	usb002	U.S. Bank			2,467.91
				4320-101-000	Office Supplies	42.06
				4343-101-000	Building/Site Maintenance	50.93
				4343-101-000	Building/Site Maintenance	29.50
				4325-101-000	Roseville IT Services, Website/Software/Licenses	96.46
				4670-101-000	Natural Resources Program	(381.95)

Ramsey Washington Metro Watershed Dist.
Cash Disbursements Journal
For the Period From May 1, 2024 to May 31, 2024

Date	Check #	Vendor ID	Name	Account ID	Description	Amount
				4171-101-000	District Database Project/GIS Maintenance	160.00
				4371-101-000	Communications/Outreach/Events	162.45
				4350-101-000	Training & Education	225.00
				4350-101-000	Training & Education	170.00
				4320-101-000	Office Supplies	31.60
				4320-101-000	Office Supplies	137.95
				4320-101-000	Office Supplies	69.74
				4670-101-000	Natural Resources Program	10.89
				4320-101-000	Office Supplies	9.36
				4320-101-000	Office Supplies	7.68
				4371-101-000	Communications/Outreach/Events	70.99
				4703-101-000	Equipment	31.99
				4341-101-000	Utilities/Building Services Contracts	210.67
				4370-101-000	Education Program	54.99
				4371-101-000	Communications/Outreach/Events	132.99
				4371-101-000	Communications/Outreach/Events	200.00
				4371-101-000	Communications/Outreach/Events	4.04
				4040-101-000	Employee Benefits	172.85
				4343-101-000	Building/Site Maintenance	18.46
				4338-101-000	Dues & Publications	85.00
				4371-101-000	Communications/Outreach/Events	48.00
				4371-101-000	Communications/Outreach/Events	45.00
				4650-101-000	Project Operations	119.57
				4371-101-000	Communications/Outreach/Events	129.38
				4670-101-000	Natural Resources Program	12.45
				4530-101-000	Water Monitoring Program	11.12
				4530-101-000	Water Monitoring Program	8.34
				4171-101-000	District Database Project/GIS Maintenance	3.20
				4390-101-000	Miscellaneous	287.20
05/07/24	74606	voy001	US Bank Voyager Fleet Sys.	4830-101-000	Vehicle Fuel	369.10
05/07/24	74607	was002	Washington Conservation District			3,511.83
				4530-101-000	Water Monitoring Program	142.50
				4683-101-000	Outside Program Support	3,369.33
5/8/2024	74362V	usb005	US Bank Equipment Finance	4335-101-000	Printing	(294.00)
05/29/24	74608	att002	AT & T Mobility - ROC	4650-101-000	Project Operations	164.54
05/29/24	74609	bar001	Barr Engineering			192,627.61
				4121-101-000	Engineering Admin	7,014.00
				4123-101-000	Engineering Review	6,665.00
				4128-520-000	Engineering -Flood Damage	2,944.50
				4129-101-000	Project Feasibility	3,153.65
				4129-101-000	Project Feasibility	64.00
				4129-101-000	Project Feasibility	4,348.50
				4129-101-000	Project Feasibility	290.00
				4129-101-000	Project Feasibility	95.00
				4129-101-000	Project Feasibility	3,550.50
				4520-101-000	WQM-Engineering	34.50

Ramsey Washington Metro Watershed Dist.
Cash Disbursements Journal
For the Period From May 1, 2024 to May 31, 2024

Date	Check #	Vendor ID	Name	Account ID	Description	Amount
				4520-101-000	WQM-Engineering	1,170.50
				4520-101-000	WQM-Engineering	129.50
				4520-101-000	WQM-Engineering	212.00
				4122-101-000	Permit Application I & E	2,475.66
				4124-101-000	Eng. Permit Review	7,688.00
				4661-101-000	SLMP/TMDL Studies	510.00
				4695-101-000	Research Projects	1,407.50
				4695-101-000	Research Projects	1,989.50
				4650-101-000	Project Operations	9,424.85
				4650-101-000	Project Operations	4,463.66
				4128-518-000	Engineering -Targeted Retrofit	10,027.10
				4128-518-000	Engineering -Targeted Retrofit	11,328.64
				4128-518-000	Engineering -Targeted Retrofit	1,360.00
				4682-529-000	Stewardship Grant Program	455.00
				4128-520-000	Engineering -Flood Damage	1,290.50
				4128-518-000	Engineering -Targeted Retrofit	7,367.70
				4129-537-000	Driveway Fish Creek Tributary	1,522.00
				4128-518-000	Engineering -Targeted Retrofit	34,379.16
				4128-520-000	Engineering -Flood Damage	10,576.00
				4128-518-000	Engineering -Targeted Retrofit	31.00
				4128-520-000	Engineering -Flood Damage	3,494.50
				4128-516-000	Eng. Projects-Maint & Repair	5,075.89
				4128-516-000	Eng. Projects-Maint & Repair	7,286.50
				4128-516-000	Eng. Projects-Maint & Repair	40,802.80
05/29/24	74610	bat002	Batteries Plus Bulbs	4530-101-000	Water Monitoring Program	895.60
05/29/24	74611	ber009	Bjorn Bergerson	4020-101-000	Employee Expenses	107.90
05/29/24	74612	bfg001	BFG Supply Co., LLC	4371-101-000	Communications/Outreach/Events	17.60
05/29/24	74613	bws001	MN Board of Water & Soil Resources	4350-101-000	Training and Education	60.00
05/29/24	74614	cad001	Zayo Group, LLC	4530-101-000	Water Monitoring Program	202.27
05/29/24	74615	cen006	Century Power Sports & Equipment	4670-101-000	Natural Resource Program	69.99
05/29/24	74616	chi004	Chicks on Sticks	4371-101-000	Communications/Outreach/Events	150.00
05/29/24	74617	chr001	Christ Episcopal Church	4682-529-000	Stewardship Grant Program	1,000.00
05/29/24	74618	com004	Comcast	4342-101-000	Utilities/Building Services Contracts	109.93
05/29/24	74619	dav003	Davey Resource Group, Inc.	4630-516-000	Construction Improvements/Project Maint & Rep.	4,429.50
05/29/24	74620	deb001	Deborah DeBellis	4371-101-000	Communications/Outreach/Events	880.00
05/29/24	74621	fis003	Fishing for Life	4371-101-000	Communications/Outreach/Events	300.00
05/29/24	74622	fit001	Fitzgerald Excavating & Trucking, Inc.	4630-516-000	Construction Improvements/Project Maint & Rep.	58,992.72
05/29/24	746223	fit002	Mary Fitzgerald			858.53
				4040-101-000	Employee Benefits	58.75
				4020-101-000	Employee Expenses	49.78
				4341-101-000	Janitorial/Trash/Plowing/Sweeping	750.00
05/29/24	74624	fit003	Emily F. Kamin			807.02
				4040-101-000	Employee Benefits	40.00
				4020-101-000	Employee Expenses	17.02
				4341-101-000	Janitorial/Trash/Plowing/Sweeping	750.00
05/29/24	74625	fle001	Flemings Auto Service	4820-101-000	Vehicle Maintenance	59.20

Ramsey Washington Metro Watershed Dist.
Cash Disbursements Journal
For the Period From May 1, 2024 to May 31, 2024

Date	Check #	Vendor ID	Name	Account ID	Description	Amount
05/29/24	74626	gal001	Galowitz Olson, PLLC	4131-101-000	Attorney-General	2,035.00
05/29/24	74627	gra001	Rick Gravrok	4371-101-000	Communications/Outreach/Events	200.00
05/29/24	74628	gra005	Grainger			230.92
				4530-101-000	Water Monitoring Program	186.40
				4670-101-000	Natural Resources Program	44.52
05/29/24	74629	haw001	Hawkins, Inc.	4530-101-000	Water Monitoring Program	18,168.40
05/29/24	74630	hen003	Emma Henry	4020-101-000	Employee Expenses	29.61
05/29/24	74631	int001	Office of MN, IT Services	4310-101-000	Telephone	59.38
05/29/24	74632	jad001	Anita Jader Photography	4371-101-000	Communications/Outreach/Events	200.00
05/29/24	74633	jor001	Kathryn Jordan	4371-101-000	Communications/Outreach/Events	250.00
05/29/24	74634	klo001	Kendra L. Kloth	4020-101-000	Employee Expenses	71.42
05/29/24	74635	kub001	Kyle W. Kubitza			83.75
				4040-101-000	Employee Benefits	40.00
				4020-101-000	Employee Expenses	43.75
05/29/24	74636	kur001	Kurilla Contracting Company	4630-518-000	Construction Imp./Targeted Retrofit Projects	30,200.50
05/29/24	74637	mbc001	MBohn Consulting, LLC.	4371-101-000	Communications/Outreach/Events	5,000.00
05/29/24	74638	mel001	Michelle L. Melser	4020-101-000	Employee Benefits, Expenses	48.24
05/29/24	74639	met012	Metro-INET			8,211.00
				4325-101-000	Roseville IT Services/Web Site/Software/Licenses	8,069.00
				4310-101-000	Telephone	142.00
05/29/24	74640	mey001	Sommer Meyer			62.82
				4020-101-000	Employee Expenses	57.82
				4670-101-000	Natural Resources Program	5.00
05/29/24	74641	nsp001	Xcel Energy	4343-101-000	Building/Site Maintenance	548.85
05/29/24	74642	pac001	Pace Analytical Services, Inc.	4530-101-000	Water Monitoring Program	13,253.00
05/29/24	74643	pas002	Carol Passi			763.09
				4040-101-000	Employee Benefits	39.32
				4020-101-000	Employee Expenses	255.94
				4371-101-000	Communications/Outreach/Events	293.84
				4630-516-000	Construction Improvements/Project Maintenance & Repair	173.99
05/29/24	74644	pit001	Pitney Bowes Global Financial Serv LLC	4330-101-000	Postage/Delivery	143.55
05/29/24	74645	pra001	Prairie Moon Nursery, Inc.	4371-101-000	Communications/Outreach/Events	330.02
05/29/24	74646	rec002	Rectangle Designs, LLC.	4371-101-000	Communications/Outreach/Events	850.00
05/29/24	74647	red002	Redpath & Company, LLC.	4110-101-000	Accounting	3,869.50
05/29/24	74648	red003	Red Wing Business Advantage Account	4040-101-000	Employee Benefits	386.99
05/29/24	74649	rel001	Reliakor Services	4682-529-000	Stewardship Grant Program	7,514.50
05/29/24	74650	roc001	Rock Leaf Water Environmental LLC	4630-516-000	Construction Improvements/Project Maint & Rep.	10,789.32
05/29/24	74651	san003	Sandstrom Land Management	4630-516-000	Construction Improvements/Project Maint & Rep.	4,467.50
05/29/24	74652	shi001	SHI International Corp.	4703-101-000	Equipment	672.00
05/29/24	74653	sod001	Nicole Maras			84.84
				4040-101-000	Employee Benefits	40.00
				4020-101-000	Employee Expenses	44.84
05/29/24	74654	stp012	St. Paul Urban Tennis	4682-529-000	Stewardship Grant Program	392.50
05/29/24	74655	stu001	Studio Lola	4371-101-000	Communications/Outreach/Events	1,387.00

Ramsey Washington Metro Watershed Dist.
Cash Disbursements Journal
For the Period From May 1, 2024 to May 31, 2024


Date	Check #	Vendor ID	Name	Account ID	Description	Amount
05/29/24	74656	til002	Joseph S. Tillotson			187.83
				4040-101-000	Employee Benefits	99.98
				4020-101-000	Employee Expenses	42.21
				4670-101-000	Natural Resources Program	45.64
05/29/24	74657	tla001	Kalpulli Tlalocotecuhli	4371-101-000	Communications/Outreach/Events	800.00
05/29/24	74658	tot002	Total Entertainment / Kidsdance	4371-101-000	Communications/Outreach/Events	750.00
05/29/24	74659	uli001	Uline			192.22
				4371-101-000	Communications/Outreach/Events	46.80
				4697-101-000	Health & Safety Program	145.42
05/29/24	74660	voy001	US Bank Voyager Fleet Sys.	4830-101-000	Vehicle Fuel	539.69
05/29/24	74661	was002	Washington Conservation District	4682-529-000	Stewardship Grant Program	1,504.00
05/29/24	74662	wil007	Patrick Williamson			88.24
				4040-101-000	Employee Benefits	40.00
				4020-101-000	Employee Expenses	48.24
Total						<u>\$422,390.72</u>
05/10/24	EFT	myp001	May 10th Payroll	4110-101-000	May 10th Payroll	84.25
05/24/24	EFT	myp001	May 24th Payroll	4110-101-000	May 24th Payroll	88.65
05/10/24	Dir.Dep.	---	May 10th Payroll	4010-101-000	May 10th Payroll	34,328.44
05/10/24	EFT	int002	April 12th Federal Withholding	2001-101-000	April 12th Federal Withholding	12,416.57
05/10/24	EFT	mnd001	April 12th State Withholding	2003-101-000	April 12th State Withholding	2,067.13
05/10/24	EFT	per001	April 12th PERA	2011-101-000	April 12th PERA	6,937.45
05/10/24	EFT	emp002	Employee Def. Comp. Contributions	2016-101-000	Employee Def. Comp. Contributions	1,948.00
05/10/24	EFT	emp002	Employee IRA Contributions	2018-101-000	Employee IRA Contributions	1,879.00
05/24/24	Dir.Dep.	---	May 24th Payroll	4010-101-000	May 24th Payroll	37,371.77
05/24/24	EFT	int002	April 26th Federal Withholding	2001-101-000	April 26th Federal Withholding	13,309.52
05/24/24	EFT	mnd001	April 26th State Withholding	2003-101-000	April 26th State Withholding	2,241.28
05/24/24	EFT	per001	April 26th PERA	2011-101-000	April 26th PERA	7,351.15
05/24/24	EFT	emp002	Employee Def. Comp. Contributions	2016-101-000	Employee Def. Comp. Contributions	1,948.00
05/24/24	EFT	emp002	Employee IRA Contributions	2018-101-000	Employee IRA Contributions	1,879.00
Payroll/Benefits:						<u>\$123,850.21</u>
Total						<u>\$546,240.93</u>



**Summary of Professional Engineering Services During the Period
April 13 through May 17, 2024**

	Total Engineering Budget (2024)	Total Fees to Date (2024)	Budget Balance (2024)	Fees During Period	District Accounting Code	Plan Implementation Task Number
Engineering Administration						
General Engineering Administration	\$92,000.00	\$40,385.34	\$51,614.66	\$7,014.00	4121-101	DW-13
RWMWD Health and Safety/ERTK Program (Training)	\$2,000.00	\$0.00	\$2,000.00	\$0.00	4697-101	DW-13
RWMWD Health and Safety Manual Update	\$5,000.00	\$4,603.50	\$396.50	\$0.00	4350-101	DW-13
Education Assistance	\$30,000.00	\$605.00	\$29,395.00	\$0.00	4129-101	DW-13
Engineering Review						
Engineering Review	\$75,000.00	\$22,411.00	\$52,589.00	\$6,665.00	4123-101	DW-13
Project Feasibility Studies						
Resiliency Study for non-Beltline tributary areas (pre-planning study and evaluation of existing data)	\$45,000.00	\$57,201.50	-\$12,201.50	\$2,944.50	4128-520	DW-9
Kohlman Creek Flood Damage Reduction Feasibility Study	\$5,000.00	\$3,520.00	\$1,480.00	\$0.00	4129-101	DW-9, KC-2
Owasso Basin/North Star Estates Improvements Feasibility Study	\$10,000.00	\$6,040.00	\$3,960.00	\$0.00	4129-101	GC-3
Phalen Village Improvements	\$10,000.00	\$9,450.15	\$549.85	\$3,153.65	4129-101	DW-9
Evaluate compliance with South Metro Mississippi River TSS TMDL	\$20,000.00	\$70.00	\$19,930.00	\$0.00	4129-101	MR-2
Street Sweeping	\$20,000.00	\$8,606.50	\$11,393.50	\$64.00	4129-101	DW-6, DW-15
Retrofit Inventory	\$60,000.00	\$17,179.72	\$42,820.28	\$4,348.50	4129-101	DW-17, DW-20
Tanners, Battle Creek Lake, McKnight Basin outlet operation plan	\$35,000.00	\$290.00	\$34,710.00	\$290.00	4129-101	DW-9
Ames Lake Feasibility Study	\$5,000.00	\$748.00	\$4,252.00	\$95.00	4129-101	DW-9, BELT-1
Interim Emergency Response Plans	\$5,000.00	\$585.00	\$4,415.00	\$0.00	4129-101	DW-9
Maplewood Mall 2024 Assessment	\$20,000.00	\$3,550.50	\$16,449.50	\$3,550.50	4129-101	DW-5, DW-12
Resiliency Study for non-Beltline tributary areas - feasibility studies placeholder	\$50,000.00	\$0.00	\$50,000.00	\$0.00	4129-101	DW-9
Contingency*	\$20,000.00	\$0.00	\$20,000.00	\$0.00	4129-101	
GIS Maintenance						
GIS Maintenance	\$5,000.00	\$0.00	\$5,000.00	\$0.00	4170-101	DW-13
Monitoring Water Quality/Project Monitoring						
Lake Water Quality Monitoring (Misc QA/QC)	\$10,000.00	\$34.50	\$9,965.50	\$34.50	4520-101	DW-2
Annual WQ Report Assistance	\$20,000.00	\$14,951.50	\$5,048.50	\$1,170.50	4520-101	DW-2
Special Project BMP Monitoring	\$30,000.00	\$2,382.00	\$27,618.00	\$0.00	4520-101	DW-12
Grass Lake Berm Wetland Monitoring	\$15,000.00	\$4,969.88	\$10,030.12	\$129.50	4520-101	DW-5, DW-8
Battle Creek Monitoring to address TMDL	\$15,000.00	\$2,615.00	\$12,385.00	\$212.00	4520-101	DW-1, DW-2
Battle Creek Monitoring to address TMDL (Barr Staff doing the monitoring)	\$15,000.00	\$0.00	\$15,000.00	\$0.00	4520-101	DW-1, DW-2
Permit Processing, Inspection and Enforcement						
Permit Application Inspection and Enforcement	\$10,000.00	\$2,894.16	\$7,105.84	\$2,475.66	4122-101	DW-7
Permit Application Review	\$65,000.00	\$31,609.50	\$33,390.50	\$7,688.00	4124-101	DW-7
Watershed Management Plan Update						
Stakeholder Engagement	\$20,000.00	\$0.00	\$20,000.00	\$0.00	4661-101	DW-21
Gaps Analysis/WMP Update Scoping	\$10,000.00	\$1,377.50	\$8,622.50	\$510.00	4661-101	DW-13, DW-20
Ecosystem Restoration Plan (or "Ecosystem Health Action Plan")	\$50,000.00	\$0.00	\$50,000.00	\$0.00	4661-101	DW-8, DW-14
Lake Studies/TMDL Reports						
West Vadnais Lake Incorporation	\$15,000.00	\$0.00	\$15,000.00	\$0.00	4661-101	DW-2
2024 Grant Applications	\$20,000.00	\$13,486.00	\$6,514.00	\$0.00	4661-101	DW-13
Prioritization of water quality projects from subwatershed feasibility studies	\$5,000.00	\$0.00	\$5,000.00	\$0.00	4661-101	DW-20
Carver Ponds Internal Load Reduction	\$12,000.00	\$0.00	\$12,000.00	\$0.00	4661-101	DW-12
Contingency for Lake Studies	\$22,500.00	\$0.00	\$22,500.00	\$0.00	4661-101	
Research Projects						
New Technology Mini Case Studies (average 6 per year)	\$15,000.00	\$11,452.50	\$3,547.50	\$1,407.50	4695-101	DW-12
Kohlman Lake Aquatic Plant Management Effects Study	\$20,000.00	\$34,437.50	-\$14,437.50	\$1,989.50	4695-101	DW-12
Shallow Lake Aeration Study Finalization	\$5,000.00	\$3,246.50	\$1,753.50	\$0.00	4695-101	DW-12
Project Operations						
2024 Tanners Alum Facility Monitoring	\$17,000.00	\$11,408.85	\$5,591.15	\$9,424.85	4650-101	Tal-3
Phalen/Keller and Twin Operations Support & Communications	\$5,000.00	\$0.00	\$5,000.00	\$0.00	4650-101	DW-5, DW-13, DW-18
Lake Level Station Operation and Maintenance	\$50,000.00	\$27,750.41	\$22,249.59	\$4,463.66	4650-101	DW-5, DW-18
Capital Improvements						
Woodbury Target	\$193,200.00	\$175,439.58	\$17,760.42	\$10,027.10	4128-518	DW-6
Roosevelt Homes	\$33,600.00	\$33,184.64	\$415.36	\$11,328.64	4128-518	DW-6, DW-9
Targeted Retrofit Projects 2024	\$150,000.00	\$9,233.50	\$140,766.50	\$1,360.00	4128-518	DW-6
Stewardship Grant Program	\$75,000.00	\$12,476.00	\$62,524.00	\$455.00	4682-529	DW-6
Owasso Basin Flood Risk Reduction	\$200,000.00	\$13,807.77	\$186,192.23	\$1,290.50	4128-520	GC-3
Pioneer Park Stormwater Reuse	\$50,000.00	\$15,238.37	\$34,761.63	\$7,367.70	4128-518	DW-6
Double Driveway and Fish Creek Tributary Improvements	\$150,000.00	\$101,003.95	\$48,996.05	\$1,522.00	4129-537	FC-2
Cottage Place Wetland	\$113,800.00	\$90,691.66	\$23,108.34	\$34,379.16	4128-518	DW-6, DW-8, DW-14, LE-2, LE-3
Ames Lake improvements	\$250,000.00	\$0.00	\$250,000.00	\$0.00	4128-520	DW-9, BELT-1
PCU Pond improvements	\$150,000.00	\$0.00	\$150,000.00	\$0.00	4128-520	DW-9, KC-2
County Road C culvert capacity	\$50,000.00	\$55,089.62	-\$5,089.62	\$10,576.00	4128-520	DW-9, KC-2
Lake Emily Subwatershed BMP	\$175,800.00	\$195,256.55	-\$19,456.55	\$31.00	4128-518	LE-3
Kohlman Creek Storage and Detention	\$150,000.00	\$4,401.00	\$145,599.00	\$3,494.50	4128-520	DW-9, KC-2
CIP Project Repair & Maintenance						
Routine CIP Inspection and Unplanned Maintenance Identification	\$125,000.00	\$29,768.50	\$95,231.50	\$5,075.89	4128-516	DW-5
2024 CIP Maintenance and Repairs	\$106,500.00	\$66,107.43	\$40,392.57	\$7,286.50	4128-516	DW-5
Beltline long-term fix near river outfall	\$250,000.00	\$146,118.41	\$103,881.59	\$40,802.80	4128-516	BELT-2

Barr declares under the penalties of Law that this Account, **\$192,627.61**
Claim, or Demand is just and that no part has been paid.


 Bradley J. Lindaman, Vice President

**Target - Woodbury Stormwater Retrofit
Progress Payment Number 1**

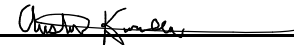
1.0	Total Completed Through This Period:	<u>\$31,790.00</u>	
2.0	Total Previously Completed:		\$ -
3.0	Total Completed This Period:		<u>\$31,790.00</u>
4.0	Amount Previously Retained:		<u>\$0.00</u>
5.0	Amount Retained This Period (See Note 1):		<u>\$1,589.50</u>
6.0	Total Amount Retained (See Note 1):		<u>\$1,589.50</u>
7.0	Retainage Released Through This Period:		<u>\$0.00</u>
8.0	Total Retainage Remaining:		<u>\$1,589.50</u>
9.0	Amount Previously Paid:	<u>\$0.00</u>	
10.0	Amount Due This Estimate:		<u><u>\$30,200.50</u></u>

Note 1: At a rate of 5%

Note 2:	Original contract price:	\$	602,645.75
	Change Order 1:	\$	-
	Change Order 2:	\$	27,546.25
	Current contract price:	\$	630,192.00

SUBMITTED BY:

Name: Austin Kurilla Date: 5/27/2024
 Title: President
 Contractor: Kurilla Contracting

Signature: 

RECOMMENDED BY:

Name: Katie Turpin-Nagel Date: 5/23/2024
 Title: Project Engineer
 Engineer: Barr Engineering Company

Signature: 

APPROVED BY:

Name: Val Eisele Date: _____
 Title: President
 Owner: Ramsey-Washington Metro Watershed District

Signature: _____

Target - Woodbury Stormwater Retrofit
Ramsey-Washington Metro Watershed District
Summary of Work Completed Through May 21, 2024 for Progress Payment Number 1

Item	Description	Unit	Bidding Estimated Quantity	Unit Price	Extension	(1) Total Completed Through this Period		(2) Total Completed Through Previous Periods		(3) Completed This Period	
						Quantity	Amount	Quantity	Amount	Quantity	Amount
A	Mobilization	LS	1	\$ 35,000.00	\$ 35,000.00	1	\$ 24,500.00		\$ -	0.7	\$ 24,500.00
B	Traffic and Pedestrian Safety Control Measures	LS	1	\$ 5,000.00	\$ 5,000.00	1	\$ 5,000.00		\$ -	1	\$ 5,000.00
C	Existing Utility Relocation Coordination	LS	1	\$ 8,500.00	\$ 8,500.00	-	\$ -		\$ -		\$ -
D	Construction Layout and Staking	LS	1	\$ 7,500.00	\$ 7,500.00	-	\$ -		\$ -		\$ -
E	Tree Protection Fencing	LF	287	\$ 6.00	\$ 1,722.00	-	\$ -		\$ -		\$ -
F	Inlet Protection (P)	EA	15	\$ 125.00	\$ 1,875.00	-	\$ -		\$ -		\$ -
G	Sediment Biolog	LF	687	\$ 5.00	\$ 3,435.00	458	\$ 2,290.00		\$ -	458	\$ 2,290.00
H	Daily Street Sweeping	HR	20	\$ 200.00	\$ 4,000.00	-	\$ -		\$ -		\$ -
I	Removal and Disposal of Tree 6" - 16" Diameter	EA	8	\$ 400.00	\$ 3,200.00	-	\$ -		\$ -		\$ -
J	Sawcut Bituminous Pavement (Full Depth) (P)	LF	1333	\$ 1.50	\$ 1,999.50	-	\$ -		\$ -		\$ -
K	Sawcut and Dispose of Concrete Curb & Gutter	LF	216	\$ 10.00	\$ 2,160.00	-	\$ -		\$ -		\$ -
L	Remove and Dispose of Bituminous Pavement (P)	SY	3707	\$ 8.00	\$ 29,656.00	-	\$ -		\$ -		\$ -
M	Remove and Dispose Existing Sod (P)	SY	769	\$ 9.00	\$ 6,921.00	-	\$ -		\$ -		\$ -
N	Remove, Salvage and Replace Existing Casting	EA	4	\$ 500.00	\$ 2,000.00	-	\$ -		\$ -		\$ -
O	Remove, Salvage, and Replace Existing Topsoil (P)	CY	175	\$ 23.00	\$ 4,025.00	-	\$ -		\$ -		\$ -
P	Remove, Salvage, and Replace Class 5 Aggregate (P)	CY	113	\$ 24.00	\$ 2,712.00	-	\$ -		\$ -		\$ -
Q	Furnish and Install Class 5 Aggregate Base	TON	50	\$ 44.00	\$ 2,200.00	-	\$ -		\$ -		\$ -
R	Common Excavation (P)	CY	2188	\$ 12.00	\$ 26,256.00	-	\$ -		\$ -		\$ -
S	Dispose Excavated Material Offsite (P)	CY	2178	\$ 9.50	\$ 20,691.00	-	\$ -		\$ -		\$ -
T	Soil Loosening - 18" Depth (P)	SY	1651	\$ 4.00	\$ 6,604.00	-	\$ -		\$ -		\$ -
U	Clean Washed Sand with 5 percent iron aggregate (P)	CY	79	\$ 32.00	\$ 2,528.00	-	\$ -		\$ -		\$ -
V	Precast 3' x 2' Catch Basin with Sump, Complete	EA	6	\$ 1,200.00	\$ 7,200.00	-	\$ -		\$ -		\$ -
W	Precast Curb Opening Catch Basin with Sump, Complete	EA	1	\$ 5,000.00	\$ 5,000.00	-	\$ -		\$ -		\$ -
X	12" DI Storm Sewer Pipe, Shallow Bury in Parking Lot	LF	131	\$ 115.00	\$ 15,065.00	-	\$ -		\$ -		\$ -
Y	12" DI Storm Sewer Pipe, Green Space	LF	13	\$ 120.00	\$ 1,560.00	-	\$ -		\$ -		\$ -
Z	10" DI Storm Sewer Pipe, Shallow Bury in Parking Lot	LF	374	\$ 79.00	\$ 29,546.00	-	\$ -		\$ -		\$ -
AA	10" DI Storm Sewer Pipe, Green Space	LF	66	\$ 79.00	\$ 5,214.00	-	\$ -		\$ -		\$ -
BB	8" DI Storm Sewer Pipe, Green Space	LF	10	\$ 100.00	\$ 1,000.00	-	\$ -		\$ -		\$ -
CC	DI Storm Sewer Pipe Mitered End	EA	3	\$ 100.00	\$ 300.00	-	\$ -		\$ -		\$ -
DD	6" Perforated Dual Wall HDPE Drain Tile Pipe and Fittings, no sock (P)	LF	351	\$ 17.50	\$ 6,142.50	-	\$ -		\$ -		\$ -
EE	4" Perforated Single Wall HDPE Drain Tile Pipe and Fittings, no sock (P)	LF	153	\$ 20.00	\$ 3,060.00	-	\$ -		\$ -		\$ -
FF	6" PVC Storm Sewer Pipe and Fittings (P)	LF	206	\$ 21.00	\$ 4,326.00	-	\$ -		\$ -		\$ -
GG	4" PVC Storm Sewer Pipe and Fittings (P)	LF	25	\$ 20.00	\$ 500.00	-	\$ -		\$ -		\$ -
HH	6" Drain Tile Cleanout and Cover Unit	EA	7	\$ 500.00	\$ 3,500.00	-	\$ -		\$ -		\$ -
II	6" Drain Tile Connection to Existing Structure	EA	2	\$ 400.00	\$ 800.00	-	\$ -		\$ -		\$ -
JJ	8" Trench Drain with Concrete Encasement and Slotted Grate, Complete	LF	235	\$ 350.00	\$ 82,250.00	-	\$ -		\$ -		\$ -
KK	Snout Hood	EA	1	\$ 1,020.00	\$ 1,020.00	-	\$ -		\$ -		\$ -
LL	Splash Block Assembly	EA	3	\$ 1,500.00	\$ 4,500.00	-	\$ -		\$ -		\$ -
MM	Limestone Block Retaining Wall, Complete	SFF	462	\$ 72.00	\$ 33,264.00	-	\$ -		\$ -		\$ -
NN	Bituminous Pavement (P)	SY	3469	\$ 25.00	\$ 86,725.00	-	\$ -		\$ -		\$ -
OO	Painted Pavement Marking	LS	1	\$ 2,000.00	\$ 2,000.00	-	\$ -		\$ -		\$ -
PP	B612 Concrete Curb & Gutter	LF	177	\$ 70.00	\$ 12,390.00	-	\$ -		\$ -		\$ -
QQ	B912 Concrete Curb & Gutter	LF	31	\$ 70.00	\$ 2,170.00	-	\$ -		\$ -		\$ -
RR	Twice Shredded Hardwood Mulch (P)	CY	170	\$ 70.00	\$ 11,900.00	-	\$ -		\$ -		\$ -
SS	Planting Soil (75% loamy sand, 25% compost - MnDOT Grade II) (P)	CY	283	\$ 41.00	\$ 11,603.00	-	\$ -		\$ -		\$ -
TT	Perennials - 4" Container (P)	EA	1522	\$ 9.00	\$ 13,698.00	-	\$ -		\$ -		\$ -
UU	Perennials - 1 Gallon Container (P)	EA	3510	\$ 17.00	\$ 59,670.00	-	\$ -		\$ -		\$ -
VV	Shrub (#5 Gallon Container) (P)	EA	77	\$ 58.00	\$ 4,466.00	-	\$ -		\$ -		\$ -
WW	Deciduous Tree (#20, Cont.) (P)	EA	8	\$ 400.00	\$ 3,200.00	-	\$ -		\$ -		\$ -
XX	Low Grow Turf Seeding	SF	3461	\$ 0.25	\$ 865.25	-	\$ -		\$ -		\$ -
YY	Erosion Control Blanket for Seeding	SF	3461	\$ 0.50	\$ 1,730.50	-	\$ -		\$ -		\$ -
ZZ	Steel Landscape Edging	LF	833	\$ 12.00	\$ 9,996.00	-	\$ -		\$ -		\$ -
C.O.2.A	Dark Hardwood Mulch (P)	CY	170	\$ 85.00	\$ 14,450.00	-	\$ -		\$ -		\$ -
C.O.2.B	Deciduous Tree (2" Caliper B&B)	EA	6	\$ 950.00	\$ 5,700.00	-	\$ -		\$ -		\$ -
C.O.2.C	Sodding (Salt Tolerant)	SF	3124	\$ 1.50	\$ 4,686.00	-	\$ -		\$ -		\$ -
C.O.2.D	Root Pruning	LS	1	\$ 3,500.00	\$ 3,500.00	-	\$ -		\$ -		\$ -
TOTAL BASE BID							\$ 602,645.75 *	\$ 31,790.00	\$ -		\$ 31,790.00

*Total base bid of \$602,645.75 reflects the original contract price and does not include Change Order 2.
With Change Order 2, the current contract price is \$630,192.00

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

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

Page: 1
May 23, 2024
File No: 9M

	Balance
General Account	\$1,715.00
FISH CREEK PROJECT	\$320.00
	<u>\$2,035.00</u>

Permit Application Coversheet

Date June 05, 2024

Project Name Habitat for Humanity Beebe Road Project Number 24-25

Applicant Name Jessica Coyle, Twin Cities Habitat for Humanity, Inc.

Type of Development Residential

Property Description

This project is located on the northeast corner of Larpenteur Avenue and Beebe Road in the City of Maplewood. The applicant is proposing to construct 7 single-family homes with associated driveways and sidewalks. The total disturbed area is 1.47 acres. Two infiltration basins are proposed to meet stormwater treatment requirements. Pretreatment will include grass filtration swales. Two wetlands (Manage A/B, Type 2/3) were delineated to the south and east of the site. The proposed project will not impact wetlands and achieves compliance with the District's no-disturb buffer requirements. This site plan and stormwater management plan were originally approved by the District in 2018 (Permit #18-17) for a former developer, but the project was withdrawn in 2022 and never completed. A temporary erosion control permit was issued on 5/24/24 to accommodate an earlier start date.

Watershed District Policies or Standards Involved:

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

Water Quantity Considerations

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

Water Quality Considerations

Short Term

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

Long Term

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

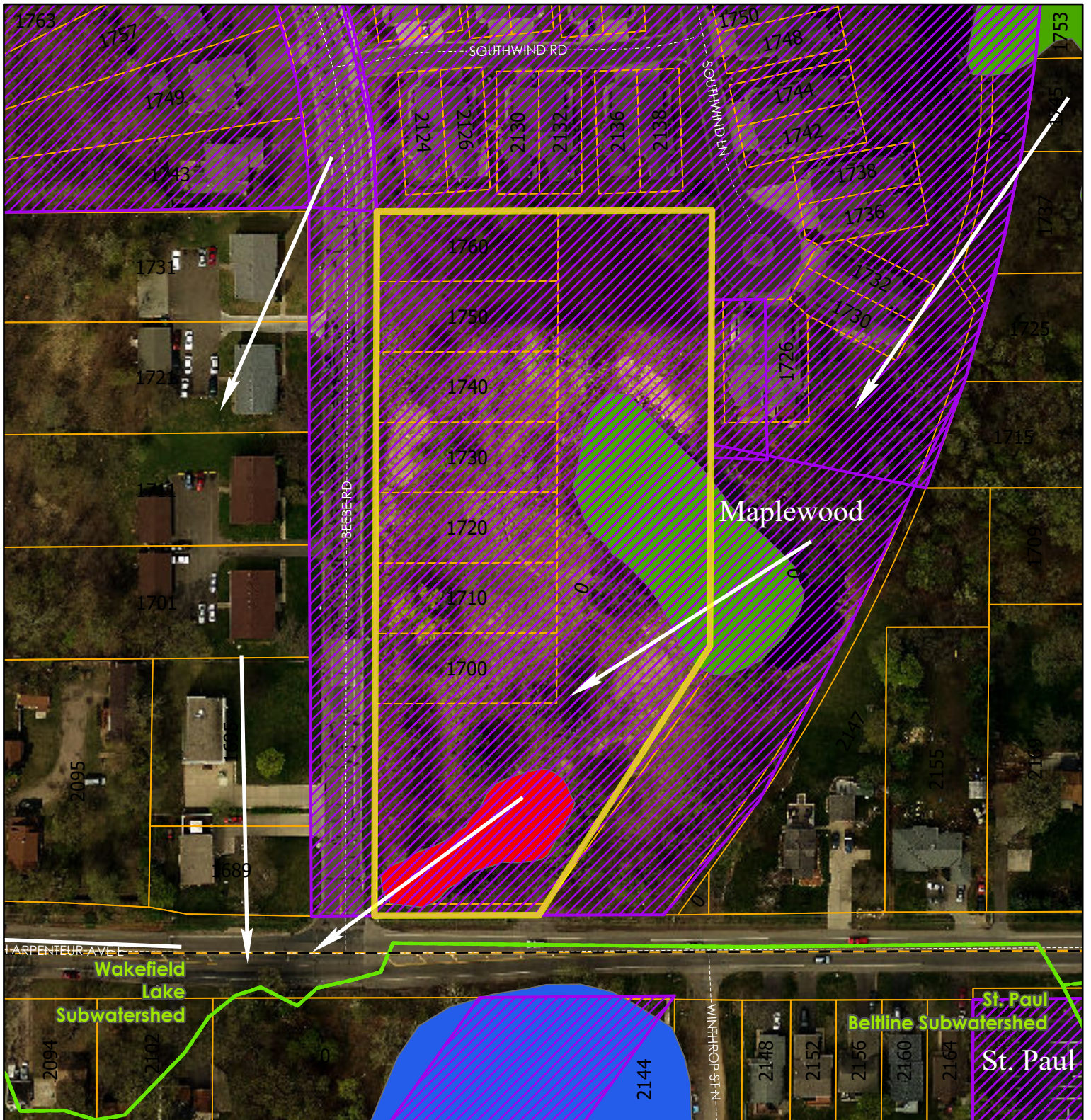
Staff Recommendation

Staff recommends approval of this permit.

Attachments:

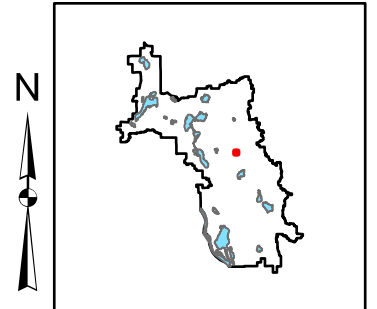
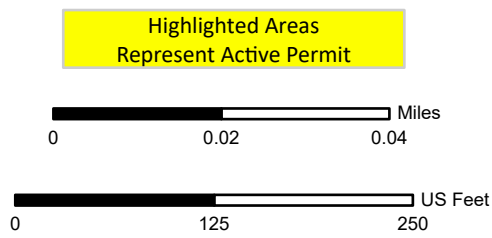
- Project Location Map**
- Project Grading Plan**

#24-25 Habitat for Humanity Beebe Road



Wetlands	
■	Manage A
■	Manage B
■	Manage C
	Lake
	Sediment Pond
	Not Assessed

	Flow Arrows
	Roads
	Permits
	Cities
	Subwatersheds
	Ramsey Co Parcels
	RWMWD Boundary



24-25

Special Provisions

None



SHEET INDEX

SHEET	TITLE
C01	TITLE SHEET
C11	EXISTING CONDITIONS & DEMOLITION PLAN
C21	SITE PLAN
C31	GRADING, DRAINAGE & EROSION CONTROL PLAN
C41	UTILITY PLAN
C51	SWPPP NOTES
C61	CIVIL CONSTRUCTION DETAILS
C71	CIVIL CONSTRUCTION DETAILS
C81	CIVIL CONSTRUCTION DETAILS
C91	WATER PRESERVATION PLAN
L21	LANDSCAPE PLAN

ISSUE / REVISION HISTORY

CONTACT ENGINEER FOR ANY PROJECT HISTORY

DATE	ISSUE / REVISION	REVIEW
15 MAY 2018	PRELIMINARY PLAN	RIS
09 JUL 2018	REVISIONS PER WATERSHED COMMENT	RIS
27 AUG 2018	FINAL PLAN	RIS
02 SEPT 2018	REVISIONS PER CITY COMMENTS	RIS
23 OCT 2018	REVISIONS PER FINAL PLAN RESOLUTION	RIS
30 OCT 2018	REVISE SHARPER SEWER FROM PRIVATE TO PUBLIC	RIS

PROJECT MANAGER REVIEW

CERTIFICATION

IF THE SIGNATURE SEAL ON FOUR LINES OBJECTS ABOVE ARE NOT VISIBLE, THIS SHEET HAS BEEN APPROVED BY THE CITY ENGINEER. THE ENGINEER IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS.

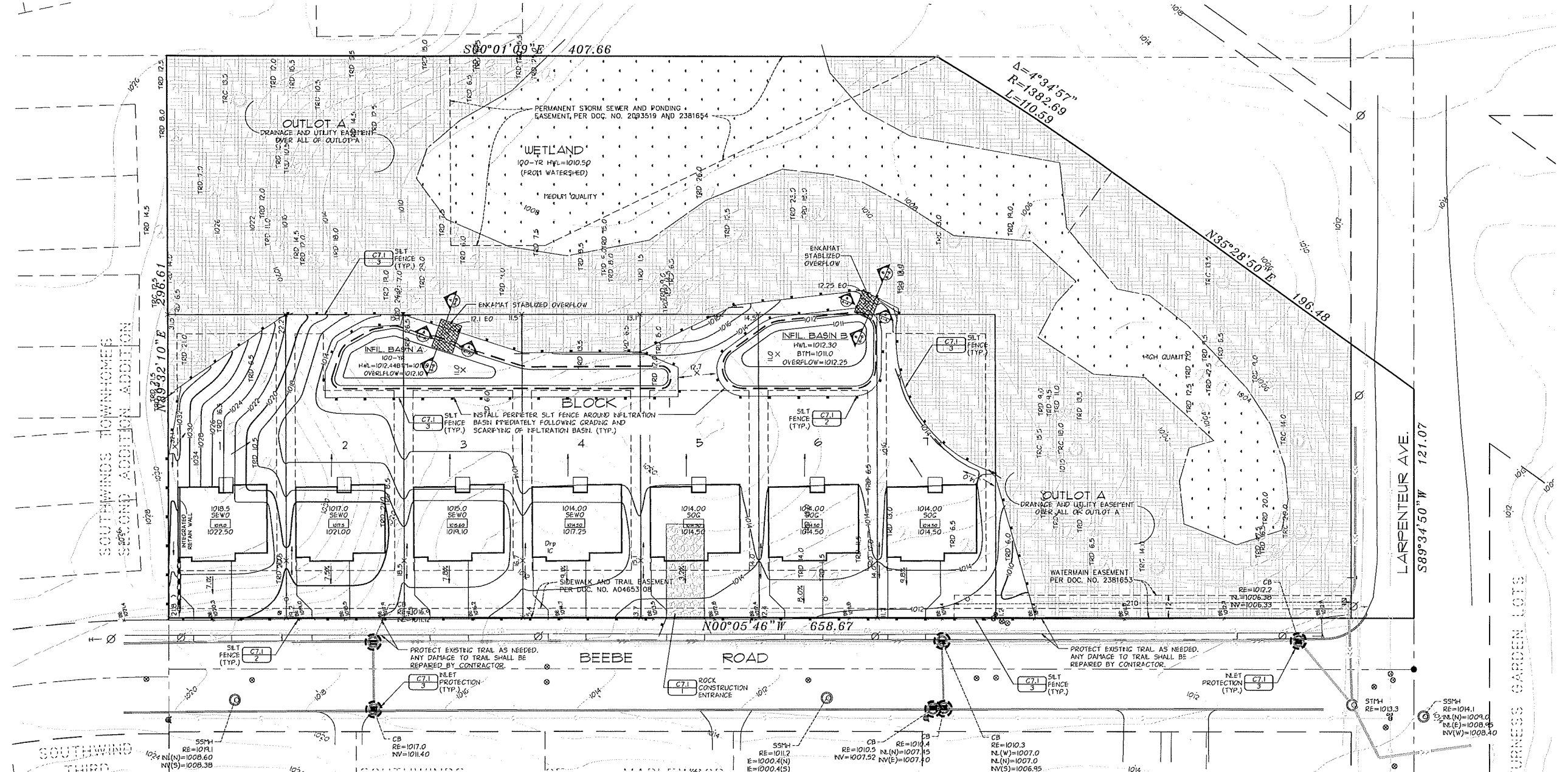
REVISION 2

10.30.2018
LANDFORM
From Site to Finish

105 South Fifth Avenue Tel: 612-252-9070
Suite 513 Fax: 612-252-9077
Minneapolis, MN 55401 Web: landform.net

FILE NAME: C301SVK006.dwg
PROJECT NO.: SVK18006

GRADING, DRAINAGE & EROSION CONTROL PLAN
C3.1



GENERAL NOTES

1. FOR CONSTRUCTION STAKING AND SURVEYING SERVICES CONTACT LANDFORM PROFESSIONAL SERVICES AT 612.252.9070.

EROSION PREVENTION AND SEDIMENT CONTROL NOTES

- 2. INSTALL PERimeter SEDIMENT CONTROLS PRIOR TO BEGINNING WORK AND MAINTAIN FOR DURATION OF CONSTRUCTION. REMOVE CONTROLS AFTER AREAS CONTRIBUTING RUNOFF ARE PERMANENTLY STABILIZED AND DISPOSED OFF SITE.
- 3. LIMIT SOIL DISTURBANCE TO THE GRADING LIMITS SHOWN. SCHEDULE OPERATIONS TO MINIMIZE LENGTH OF EXPOSURE OF DISTURBED AREAS.
- 4. MANAGEMENT PRACTICES SHOWN ARE THE MINIMUM REQUIREMENT. INSTALL AND MAINTAIN ADDITIONAL CONTROLS AS WORK PROCEEDS TO PREVENT EROSION AND CONTROL SEDIMENT CARRIED BY WIND OR WATER.
- 5. REFER TO SWPPP NOTES ON SHEET C3.2 FOR ADDITIONAL REQUIREMENTS.
- 6. CONTRACTOR SHALL PREVENT SEDIMENT LOADED WATER FROM ENTERING THE INFILTRATION SYSTEM UNTIL THE SITE IS COMPLETELY STABILIZED.
- 7. ALL EXPOSED SOIL AREAS MUST BE STABILIZED WITHIN 72 HOURS OF COMPLETION OF WORK IN EACH AREA.
- 8. SEED, SO2, MULCH AND FERTILIZER SHALL MEET THE FOLLOWING SPECIFICATIONS, AS MODIFIED:
ITEM SPECIFICATION NUMBER
SO2 PRODOT 3818
MULCH PRODOT 3882
(MULCH TYPE 1 @ 2 TON/AC, DISC ANCHORED)
FERTILIZER PRODOT 3881
GENERAL PLACEMENT PRODOT 2375
SEE LANDSCAPE SHEETS FOR PERMANENT TURF AND LANDSCAPE ESTABLISHMENT.
- 9. SCRAPER ADJACENT STREETS CLEAN DAILY AND SWEEP CLEAN WEEKLY.

RAMSEY-WASHINGTON METRO WATERSHED DISTRICT CONTACT

- 10. CONTACT NICOLE SODERHOLM, RAMSEY-WASHINGTON METRO WATERSHED DISTRICT @ 651-792-7976 PRIOR TO BEGINNING ANY AND ALL CONSTRUCTION ACTIVITY FOR AN INITIAL SWPPP INSPECTION.
- 11. CONTACT NICOLE SODERHOLM, RAMSEY-WASHINGTON METRO WATERSHED DISTRICT @ 651-792-7976 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION OF THE INFILTRATION BASINS.

GRADING NOTES

- 12. CONTACT UTILITY SERVICE PROVIDERS FOR FIELD LOCATION OF SERVICES 72 HOURS PRIOR TO BEGINNING GRADING.
- 13. REMOVE TOPSOIL FROM GRADING AREAS AND STOCKPILE SUFFICIENT QUANTITY FOR REUSE. MATERIALS MAY BE TINED FROM LANDSCAPE AREAS FOR USE ON SITE AND REPLACED WITH EXCESS ORGANIC MATERIAL WITH PRIOR OWNER APPROVAL.
- 14. REMOVE SURFACE AND GROUND WATER FROM EXCAVATIONS. PROVIDE INITIAL LIFTS OF STABLE FOUNDATION MATERIAL IF EXPOSED SOILS ARE WET AND UNSTABLE.
- 15. REFER TO STRUCTURAL SPECIFICATIONS FOR EARTHWORK REQUIREMENTS FOR BUILDING PADS.
- 16. AN INDEPENDENT TESTING FIRM SHALL VERIFY THE REMOVAL OF ORGANIC AND UNSUITABLE SOILS, SOIL CORRECTION, AND COMPACTION AND PROVIDE PERIODIC REPORTS TO THE OWNER.
- 17. PLACE AND COMPACT FILL USING LIFT THICKNESSES MATCHED TO SOIL TYPE AND COMPACTION EQUIPMENT TO OBTAIN SPECIFIED COMPACTION THROUGHOUT THE LIFT.
- 18. COMPACT COHESIVE SOILS IN PAVED AREAS TO 95% OF MAXIMUM DRY DENSITY, STANDARD PROCTOR (ASTM D698) EXCEPT THE TOP 3 FEET WHICH SHALL BE COMPACTED TO 100%. COMPACT TO 98% DENSITY WHERE FLL DEPTH EXCEEDS 10 FEET. THE SOILS SHALL BE WITHIN 3% OF OPTIMUM MOISTURE CONTENT. IN GRANULAR SOILS ALL PORTIONS OF THE EMBANKMENT SHALL BE COMPACTED TO NOT LESS THAN 95% OF MODIFIED PROCTOR DENSITY (ASTM D1557).
- 19. AVOID SOIL COMPACTION OF INFILTRATION PRACTICES. ANY EQUIPMENT USED IN INFILTRATION AREAS SHOULD BE SMALL SCALED AND TRACKED.
- 20. NOTIFY NICOLE SODERHOLM, RAMSEY-WASHINGTON METRO WATERSHED DISTRICT, AT 651-792-7976 PRIOR TO BEGINNING ANY AND ALL CONSTRUCTION ACTIVITY FOR AN INITIAL SWPPP INSPECTION.
- 21. PLANS SPECIFY MINIMUM EROSION CONTROL/SEDIMENT CONTROL PRACTICES, ADDITIONAL EROSION CONTROL PRACTICES MAY BE REQUIRED DURING CONSTRUCTION.
- 22. RETAINING WALL SHOWN FOR SCHEMATIC PURPOSES ONLY. BUILDER TO SUBMIT PLAN FOR ANY RETAINING WALLS OVER 4' IN HEIGHT TO THE CITY AS REQUIRED BY CODE.

RETAINING WALL NOTES

LEGEND

SYMBOL	DESCRIPTION	ESTIMATED QUANTITY
	INLET PROTECTION	6 EACH
	SILT FENCE	1,640 FEET
	VEHICLE TRACKING PAD	1 EACH
	DENOTES WETLAND BUFFER	
	FUTURE RETAINING WALL (BY HOME BUILDER)	

NPDES AREA SUMMARY

JURISDICTIONAL BODY SHALL BE THE RAMSEY-WASHINGTON METRO WATERSHED DISTRICT

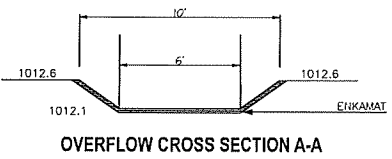
	EXISTING	PROPOSED
PERVIOUS	0.06 ACRES	0.39 ACRES
IMPERVIOUS	3.93 ACRES	3.60 ACRES
TOTAL	3.99 ACRES	3.99 ACRES

BUILDING TYPE: XXX.X : REAR ELEVATION
FBWO = FULL BASEMENT : FBWO/FB : FINISH WALK OUT
WALK OUT : (XXXX) : FINISH WALK OUT
FBO = FULL BASEMENT : GF=XXX.X : FRONT GARAGE FLOOR ELEVATION
LOOK OUT : : DENOTES NUMBER OF COURSES
SEWO = SPLIT ENTRY : IC : GARAGE FLOOR IS DROPPED FROM TOP OF FOUNDATION

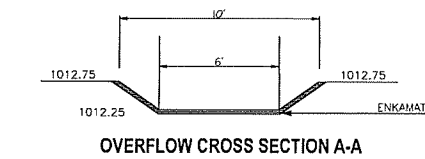
PAD DETAIL NO SCALE

7.31.18 Cut/Fill Summary - Contour To Contour, No Holddowns

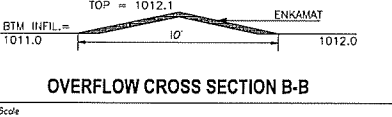
Name	Cut Factor	Fill Factor	2d Area	Cut	Fill	Net
Volume	1.000	1.000	63140 Sq. Ft.	8892 Cu. Yd.	1408 Cu. Yd.	7483 Cu. Yd.<Cut>
Totals			63140 Sq. Ft.	8892 Cu. Yd.	1408 Cu. Yd.	7483 Cu. Yd.<Cut>



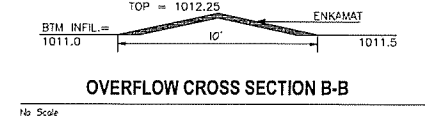
OVERFLOW CROSS SECTION A-A



OVERFLOW CROSS SECTION A-A



OVERFLOW CROSS SECTION B-B



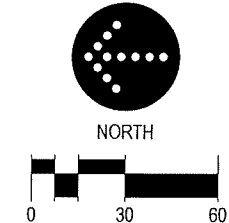
OVERFLOW CROSS SECTION B-B

INFILTRATION BASIN A

INFILTRATION BASIN B



Know what's Below.
Call before you dig.



Permit Application Coversheet

Date July 11, 2018

Project Name Beebe Meadows

Project Number 18-17

Applicant Name TRANSFERRED: Mike Kevitt, SVK Development

Type of Development Residential

Property Description

This project is located on the northeast corner of Larpenteur Avenue and Beebe Road in the City of Maplewood. The applicant is proposing to construct 7 single-family homes with associated driveways and sidewalks. The total site area is 1.47 acres. Volume reduction and rate control will be achieved through construction of two infiltration basins located in the backyards of the proposed homes. Pretreatment will include grass filtration. Two wetland basins were delineated to the south and east of the site. Boundaries were approved on 12/20/16 (#16-16 WCA). The proposed project will not impact wetlands and achieves compliance with the District's no-disturb buffer requirements.

Watershed District Policies or Standards Involved:

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

Water Quantity Considerations

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

Water Quality Considerations

Short Term

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

Long Term

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

Staff Recommendation

Staff recommends approval of this permit with the special provisions.

Attachments:

- Project Location Map**
- Project Grading Plan**

Permit Application Coversheet

Date June 05, 2024

Project Name Ramsey County Keller Park Tuj Lub Expansion Project Number 24-26

Applicant Name Brett Blumer, Ramsey County Parks

Type of Development Park/Green Space

Property Description

This project is located east of Highway 61 in Keller Regional Park, near Keller Creek in the City of Maplewood. The applicant is proposing to make improvements to existing tuj lub courts that are deteriorating from heavy use. Proposed work will include renovation of the courts to artificial turf, bleachers for spectators, new fencing and barrier netting, a picnic shelter and tables, and lighting. The total disturbed area is 1.5 acres. Two infiltration basins are proposed to meet stormwater treatment requirements. The proposed project maintains a 100' setback from Keller Creek and will result in no creek or floodplain impacts.

Watershed District Policies or Standards Involved:

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

Water Quantity Considerations

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

Water Quality Considerations

Short Term

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

Long Term

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

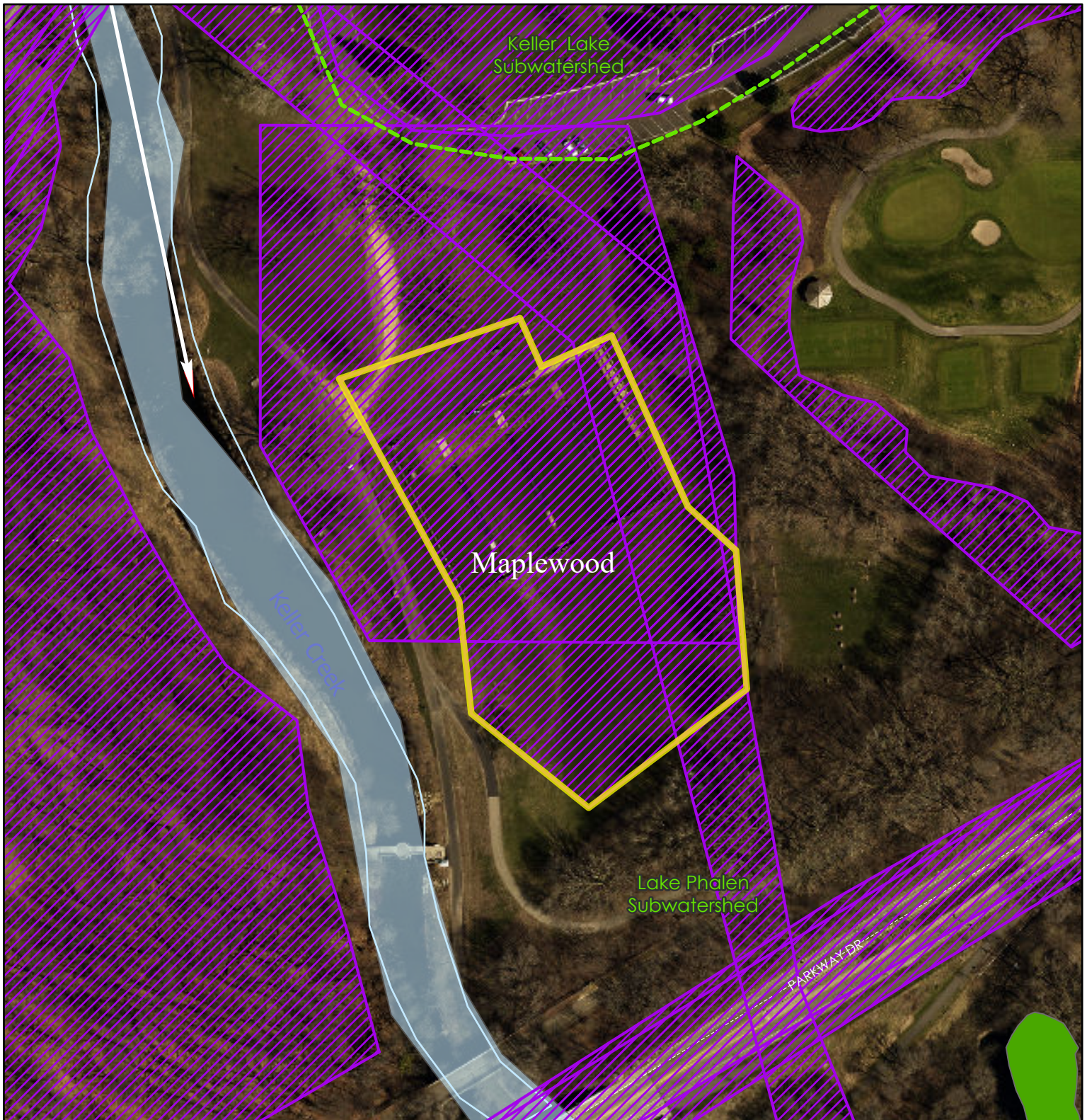
Staff Recommendation

Staff recommends approval of the permit with the special provisions.

Attachments:

- Project Location Map
- Project Grading Plan

#24-26 Ramsey County Keller Park Tuj Lub Expansion



Wetlands

- Manage A
- Manage B
- Manage C
- Lake
- Sediment Pond
- Not Assessed

- Flow Arrows
- Flow_Arrows (Major)
- Roads
- Permits
- Cities
- Subwatersheds
- Lakes
- RWMWD Boundary

**Highlighted Areas
Represent Active Permit**

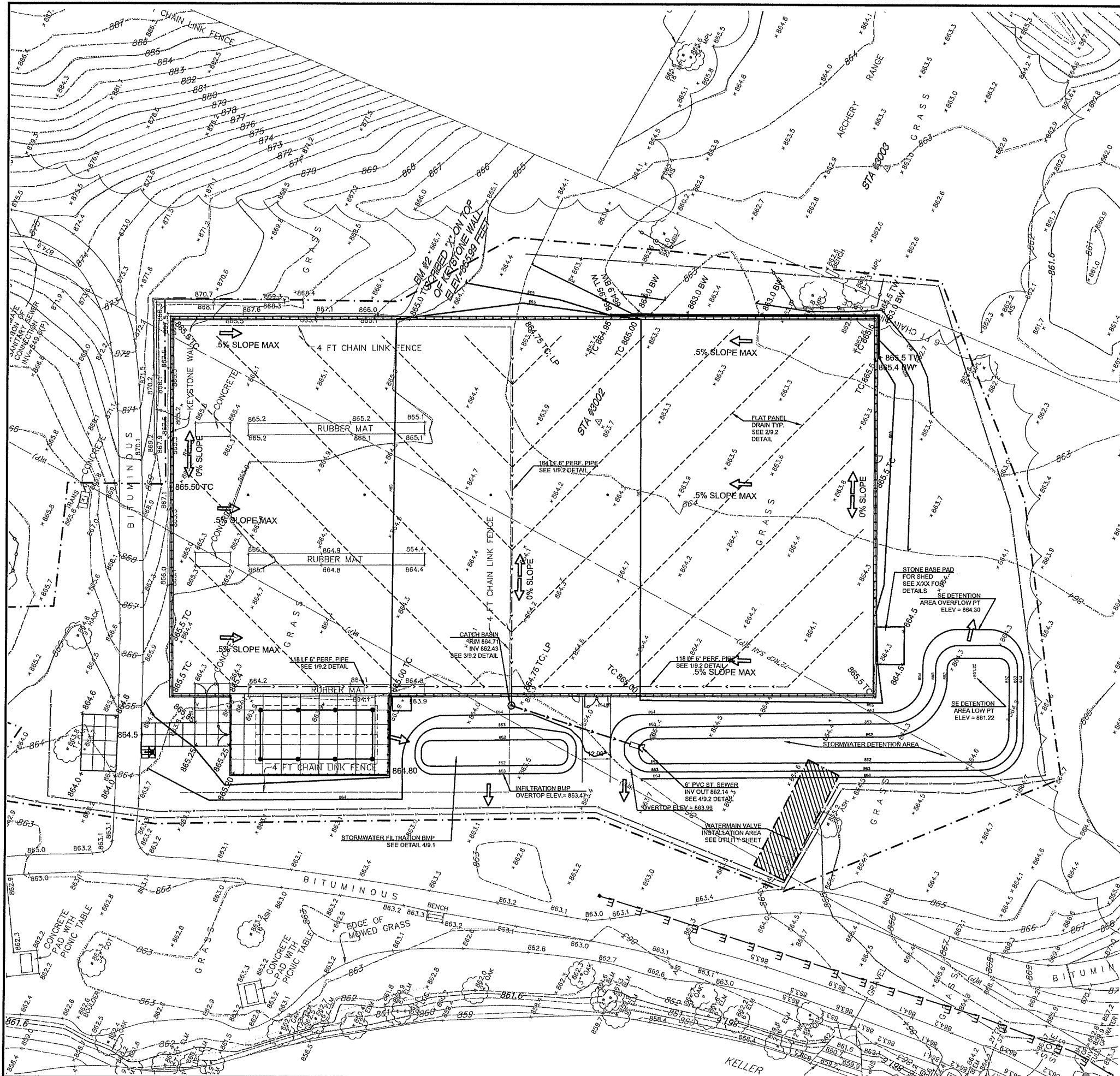
0 0.02 0.04 Miles

0 125 250 US Feet

N

Special Provisions

1. The applicant shall add notes to the plans:
 - A. Notify Mary Fitzgerald, Ramsey-Washington Metro Watershed District, at 651-792-7956, prior to beginning construction activity to schedule an initial erosion control inspection.
 - B. Notify Mary Fitzgerald, Ramsey-Washington Metro Watershed District, at 651-792-7956, at least 48 hours prior to construction of the stormwater infiltration basins.
 - C. The specified erosion and sediment control practices are the minimum. Additional practices may be required during the course of construction.
2. The applicant shall submit the final, signed plans set.
3. The applicant shall submit contact information for the trained erosion control coordinator responsible for implementing the Stormwater Pollution Prevention Plan (SWPPP).
4. The applicant shall submit a copy of the approved Minnesota Pollution Control Agency's NPDES Construction Permit coverage for the project.



GENERAL GRADING PLAN NOTES:

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

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

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

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

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

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

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

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

LAYOUT NOTES: ALL PROJECT ELEMENTS INCLUDING BUT NOT LIMITED TO BITUMINOUS TRAIL, CONCRETE CURBS, TURF FIELD AND CONSTRUCTION LIMITS SHALL BE FIELD STAKED BY CONTRACTOR. CONTRACTOR WILL NEED APPROVAL BY RAMSEY COUNTY LANDSCAPE ARCHITECT PRIOR TO COMMENCING CONSTRUCTION. CONTRACT ITEMS LAID OUT AND INSTALLED INCORRECTLY WITHOUT PRIOR REVIEW AND ACCEPTANCE BY RAMSEY COUNTY REPRESENTATIVE WILL NEED TO BE REMOVED AND REINSTALLED AT CONTRACTORS OWN EXPENSE.

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

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

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

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

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

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

SOIL NOT SUITABLE TO BE USED ON SITE OR UNDER STRUCTURAL SITE ELEMENTS, BUT ACCEPTABLE FOR GENERAL LANDSCAPE FILL MAY BE PERMANENTLY DISPOSED OF ON RAMSEY COUNTY PARKS PROPERTY IN KELLER REGIONAL PARK AS DIRECTED BY OWNER. SOILS DISPOSED AT THAT LOCATION MUST MEET THE REQUIREMENTS OF THE SWPPP FOR STOCKPILE OR PERMANENT STABILIZATION.

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

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

CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL STORM DRAIN INLETS AND PERMEABLE PAVEMENTS IN THE PARK. THIS INCLUDES THE EXISTING PARKING LOT AREAS WHERE TRUCKS WILL BE HAULING. REFER TO SWPPP FOR SPECIFIC REQUIREMENTS.

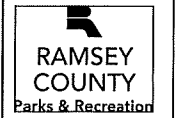
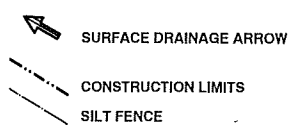
CONTRACTOR SHALL ERECT AND MAINTAIN PROTECTIVE FENCING FOR EXISTING TREES THAT ARE TO REMAIN AND THAT ARE NEAR THE CONSTRUCTION ZONE. OWNER WILL WALK THE SITE WITH THE CONTRACTOR PRIOR TO ROUGH GRADING TO IDENTIFY TREES TO BE PROTECTED TREE PROTECTION INCLUDING PROTECTIVE FENCING SHALL BE CONSIDERED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

OTHER NOTES
N.I.C. = NOT IN CONTRACT

KELLER CREEK K100 YEAR FLOOD ELEVATION = 861.6
CONFIRMED BY RAMSEY WASHINGTON METRO WATERSHED DISTRICT

ASSUMED KELLER CREEK ORDINARY HIGH WATER LEVEL = 860.0 feet
(vertical datum NAVD88),
AS PROVIDED BY MN DNR

NOTE: IT IS THE RESPONSIBILITY OF THE CONTRACTOR
TO VERIFY ALL QUANTITIES FOR BIDDING



CONTACT INFORMATION:
B. Gus Blumert, Landscape Architect
2915 Wab (Dix) Street
St. Paul, MN 55108
bblumert@ramsey.mn.us
651.265.0309

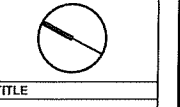
I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Landscape Architect under the laws of the State of Minnesota.
Registration: Landscape Architect
State: Minnesota
Number: 42941
Signature: B. Gus Blumert

NO.	DATE	DESCRIPTION
1	3/1/24	REVIEW DOCUMENTS

REVIEW DOCUMENTS

TUJULUB COURT TURF FIELD CONSTRUCTION PROJECT
RAMSEY COUNTY PARKS AND RECREATION DEPARTMENT
KELLER REGIONAL PARK

DATE: MAY 2024
DESIGNED BY: BGB
DRAWN BY: BGB
CHECKED BY: BK



TITLE
GENERAL GRADING & PIPING PLAN

BD 4.0

Permit Application Coversheet

Date June 05, 2024

Project Name RWMWD Kohlman Creek/County Rd C Culvert Project Number 24-27

Applicant Name Paige Ahlborg, RWMWD

Type of Development Drainage

Property Description

This project is located at Kohlman Creek and County Road C in the City of Maplewood. This is a RWMWD-led project that was identified in the Kohlman Creek Flood Risk Reduction Feasibility Report presented at the February 2024 board meeting. The scope of work includes removal and replacement of an existing culvert and associated restoration to help reduce flood risk to existing homes along the creek. The total disturbance area is 0.75 acre, thus permanent stormwater treatment is not required. Construction activity and fill (riprap) will occur in the 100-year floodplain, however compensatory storage is being provided such that there is no adverse flood impact. Kohlman Creek is a DNR Public Water, and permitting coordination with the state is ongoing.

Watershed District Policies or Standards Involved:

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

Water Quantity Considerations

The proposed earthwork and culvert design will result in no adverse flood impacts.

Water Quality Considerations

Short Term

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

Long Term

There are no long term water quality considerations.

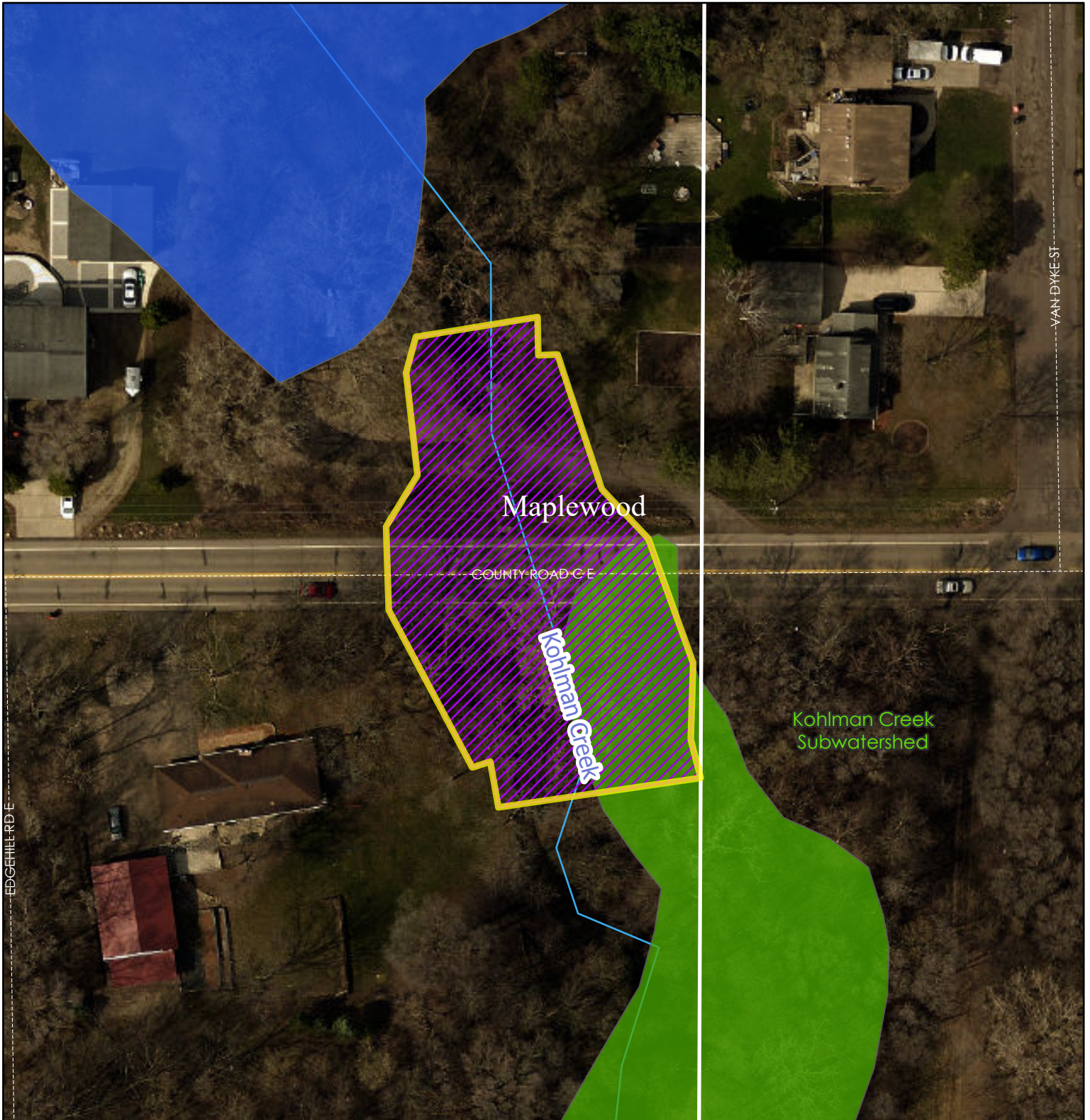
Staff Recommendation

Staff recommends approval of this permit with the special provisions.

Attachments:

- Project Location Map**
- Project Grading Plan**

#24-27 RWMWD Kohlman Creek / County Rd C Culvert



Wetlands

- Manage A
- Manage B
- Manage C
- Lake
- Sediment Pond
- Not Assessed

- Flow Arrows
- Roads
- Permits
- Cities
- Subwatersheds
- RWMWD Boundary

Highlighted Areas
Represent Active Permit

0 0.01 0.01 Miles

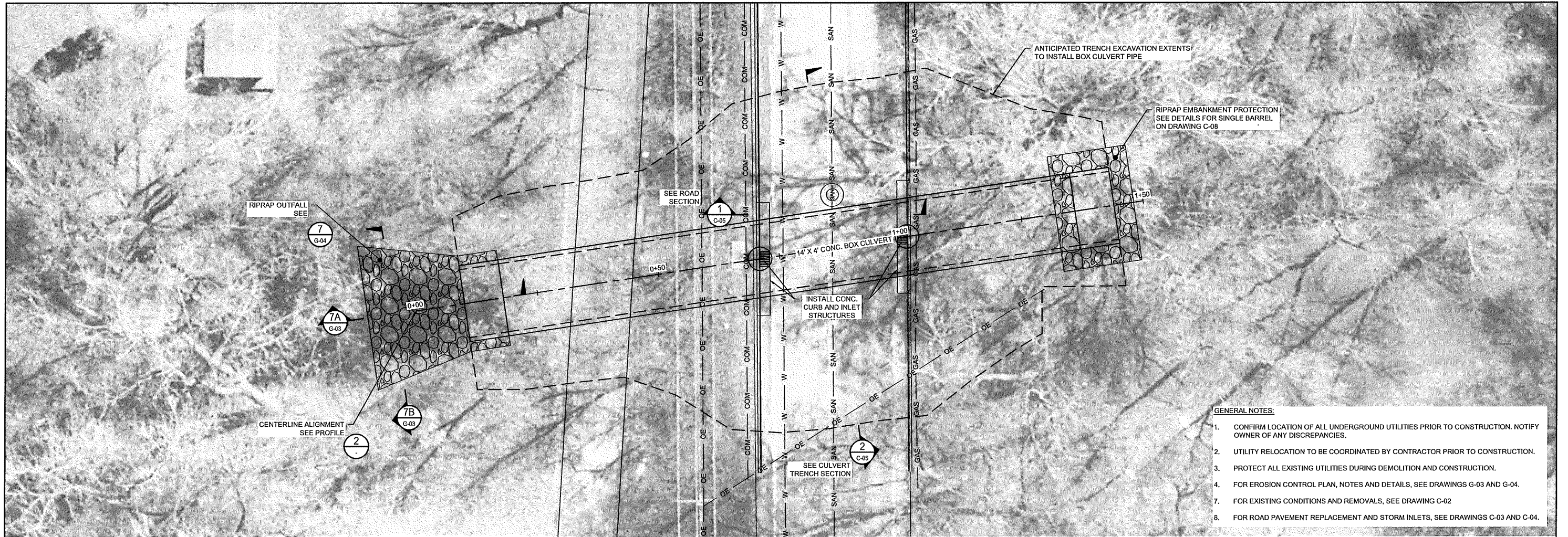
0 50 100 US Feet

N

24-27

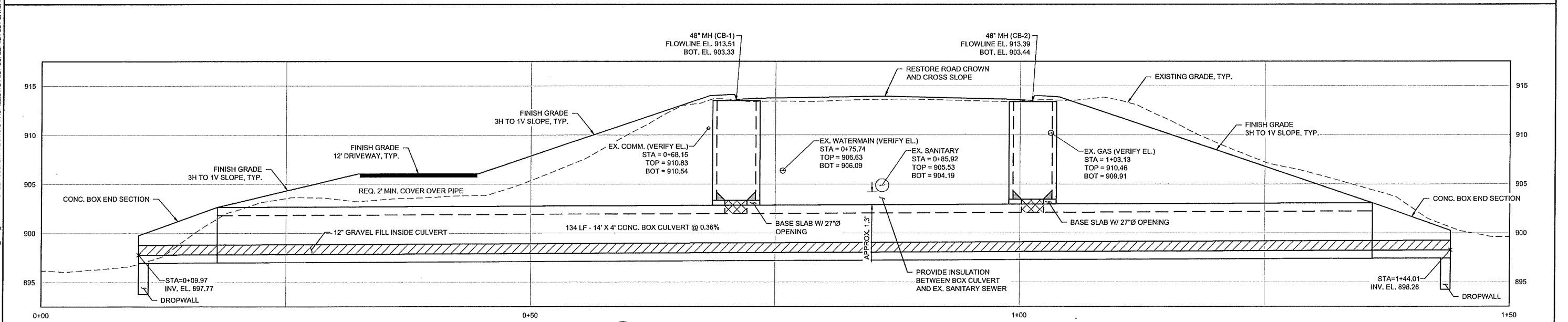
Special Provisions

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



- GENERAL NOTES:**
1. CONFIRM LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. NOTIFY OWNER OF ANY DISCREPANCIES.
 2. UTILITY RELOCATION TO BE COORDINATED BY CONTRACTOR PRIOR TO CONSTRUCTION.
 3. PROTECT ALL EXISTING UTILITIES DURING DEMOLITION AND CONSTRUCTION.
 4. FOR EROSION CONTROL PLAN, NOTES AND DETAILS, SEE DRAWINGS G-03 AND G-04.
 7. FOR EXISTING CONDITIONS AND REMOVALS, SEE DRAWING C-02
 8. FOR ROAD PAVEMENT REPLACEMENT AND STORM INLETS, SEE DRAWINGS C-03 AND C-04.

1 PLAN: KOHLMAN CREEK CULVERT
 SCALE IN FEET



2 PROFILE: KOHLMAN CREEK CULVERT
 SCALE IN FEET

RELEASED FOR BID

CAD USER: GREG NELSON FILE: M:\DESIGN\2024\1494\02\2024\149400_C-04_KOHLMAN CREEK CULVERT PLAN AND PROFILE.DWG PLOT SCALE: 1:2 PLOT DATE: 4/22/2024 2:04 PM

NO.	BY	CHK	APP.	DATE	REVISION DESCRIPTION
A	GGN	TAO2	-	3/22/24	BOARD REVIEW FOR PROJECT APPROVAL

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: TYLER A. OLSEN
 SIGNATURE: _____
 DATE: _____ LICENSE #: _____

CLIENT	DATE	CONSTRUCTION	RELEASED TO/FOR	DATE RELEASED
BARR	3/22/24	TBD	A B C 0 1 2 3	

BARR
 Project Office:
 BARR ENGINEERING CO.
 4300 MARKETPOINTE DRIVE
 SUITE 200
 MINNEAPOLIS, MN 55435
 Corporate Headquarters:
 Minneapolis, Minnesota
 Ph: 1-800-632-2277
 Fax: (952) 832-2601
 www.barr.com

Scale	AS SHOWN
Date	3/22/24
Drawn	GGN
Checked	TAO2
Designed	BARR
Approved	-

RAMSEY-WASHINGTON
 METRO WATERSHED DISTRICT

COUNTY ROAD C / KOHLMAN CREEK
 CONVEYANCE IMPROVEMENT
 KOHLMAN CREEK CULVERT
 PLAN AND PROFILE

BARR PROJECT No.	23/62-1494.00
CLIENT PROJECT No.	
DWG. No.	C-04
REV. No.	0

Permit Application Coversheet

Date June 05, 2024

Project Name Sunrise Over Gervais

Project Number 24-28

Applicant Name Jerry Carlson, Lee Homes Corp.

Type of Development Residential

Property Description

This project is located west of Edgerton Street across from Lake Gervais in the City of Little Canada. The applicant is proposing to construct 4 single-family homes with associated driveways. The total disturbed area is 1.2 acres. An infiltration basin is proposed to meet stormwater treatment requirements. Pretreatment will include grass filtration swales. One wetland (Manage A, Type 3) was delineated on the west side of the site (#24-04 WCA). The proposed project will not impact the wetland or 100-year floodplain and achieves compliance with the District's no-disturb wetland buffer requirements.

Watershed District Policies or Standards Involved:

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

Water Quantity Considerations

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

Water Quality Considerations

Short Term

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

Long Term

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

Staff Recommendation

Staff recommends approval of this permit with the special provisions.

Attachments:

- Project Location Map**
- Project Grading Plan**

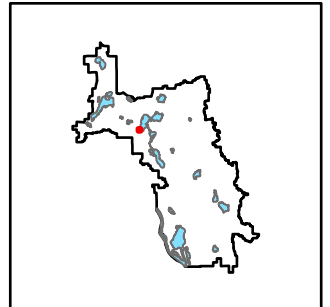
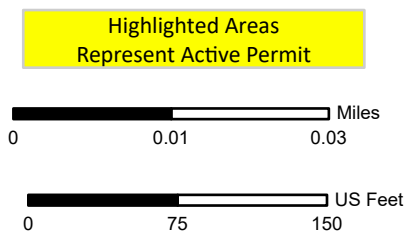
#24-28 Sunrise Over Gervais



Wetlands

- Manage A
- Manage B
- Manage C
- Lake
- Sediment Pond
- Not Assessed

- Roads
- Permits
- Cities
- Subwatersheds
- Ramsey Co Parcels
- RWMWD Boundary



24-28

Special Provisions

1. The applicant shall submit the escrow payment of \$5,800.
2. The applicant shall submit the final, signed plans including landscaping.
3. The applicant shall submit an executed stormwater maintenance agreement for the proposed stormwater facilities.
4. The applicant shall submit a site-specific BMP Operations & Maintenance Plan for the proposed stormwater facilities.
5. The applicant shall submit contact information for the trained erosion control coordinator responsible for implementing the Stormwater Pollution Prevention Plan (SWPPP).
6. The applicant shall submit a copy of the approved Minnesota Pollution Control Agency's NPDES Construction Permit coverage for the project.

DATE	REVISION DESCRIPTION
5/25/24	REVISED GRADING FOR INCREASED ROW; REVISED BASINS
5/2/24	REVISED GRADING PLAN TO DIRECT RUNOFF TO ONE BASIN

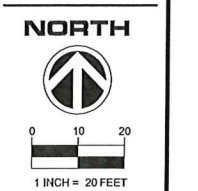
I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.
Q.M.A.
 QASEM M. ABUGHAZZEN LIC. NO. 55099
 DATE: 05.02.24

SUNRISE OVER GERVAIS
LITTLE CANADA, MINNESOTA
 GRADING, DRAINAGE, AND EROSION CONTROL PLAN

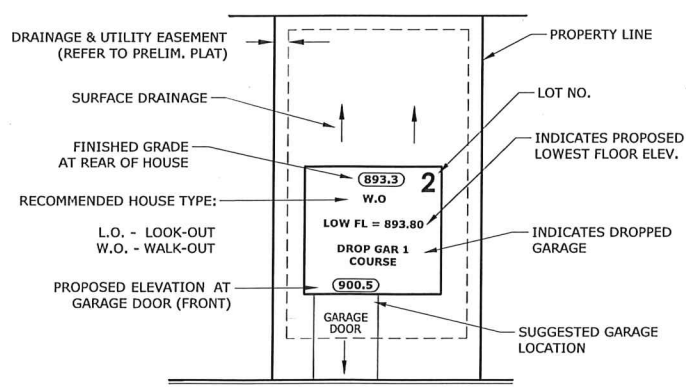
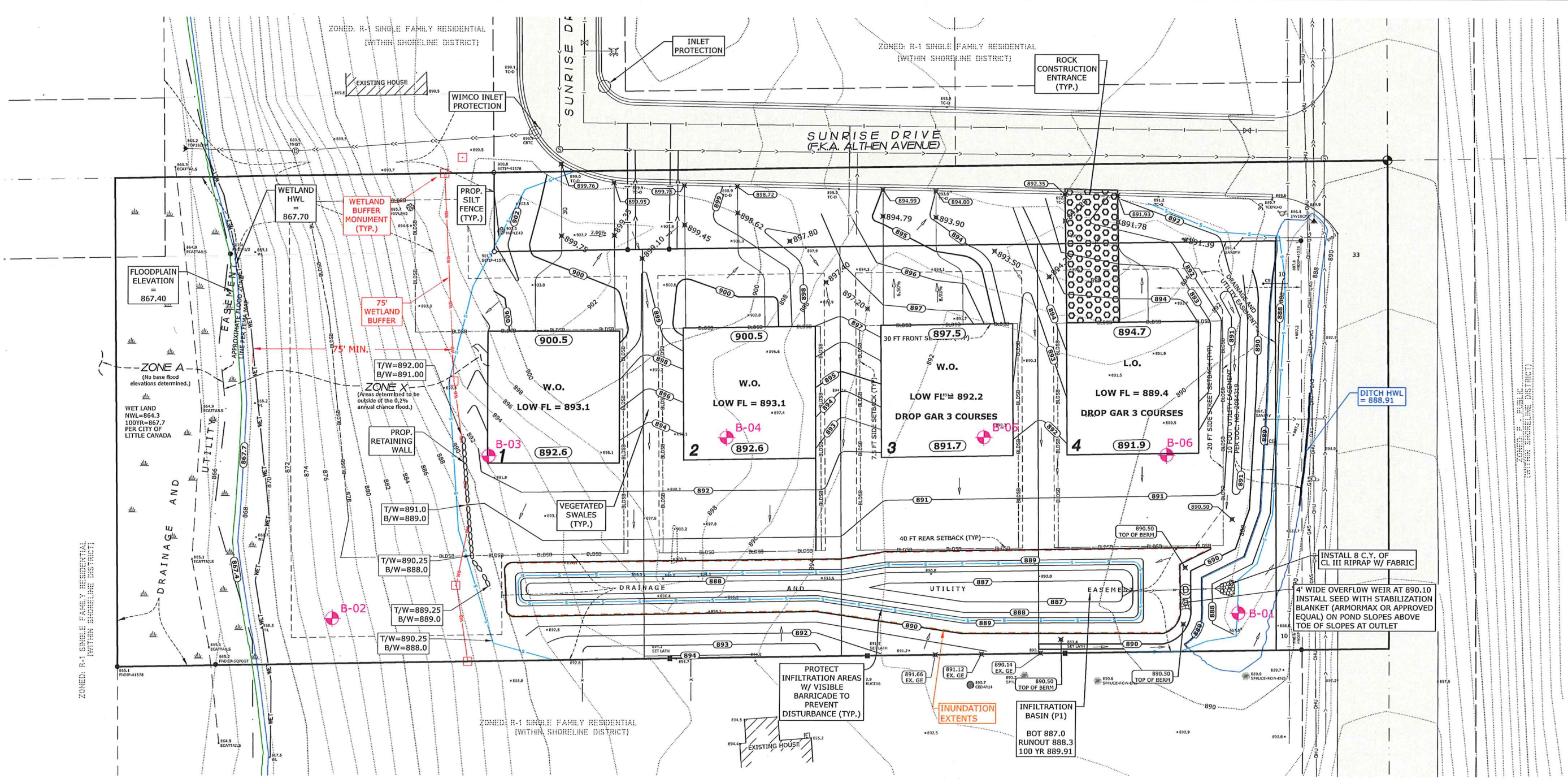
PREPARED FOR:
LEE HOMES



PLOWE ENGINEERING, INC.
 6776 LAKE DRIVE
 SUITE 110
 LINO LAKES, MN 55014
 PHONE: (651) 361-8210
 FAX: (651) 361-8701



G1



ADDITIONAL NOTES

1. NOTIFY NICOLE MARAS, RAMSEY-WASHINGTON METRO WATERSHED DISTRICT, AT (651) 792-7976 PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY IN ORDER TO SCHEDULE AN INITIAL SWPPP INSPECTION.
2. NOTIFY NICOLE MARAS, RAMSEY-WASHINGTON METRO WATERSHED DISTRICT, AT (651) 792-7976 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION OF THE STORMWATER BASIN.
3. THE SPECIFIED EROSION AND SEDIMENT CONTROL MEASURES ARE THE MINIMUM. CONTRACTOR TO PROVIDE ADDITIONAL PRACTICES IF REQUIRED DURING THE COURSE OF CONSTRUCTION.

811
 Know what's below.
 Call before you dig.

**GRADING, DRAINAGE, AND EROSION CONTROL PLAN
 SUNRISE OVER GERVAIS**

Minnesota Wetland Conservation Act Notice of Decision

Local Government Unit: Ramsey-Washington Metro Watershed District (RWMWD) County: Ramsey
Applicant Name: Jerry Carlson (Lee Homes) Applicant Representative: Wayne Jacobson (Jacobson Environmental, PLLC)
Project Name: 2395 Edgerton Street LGU Project No. (if any): 24-04 WCA
Date Complete Application Received by LGU: 4/17/2024
Date of LGU Decision: 5/15/2024
Date this Notice was Sent: 5/23/2024

WCA Decision Type - check all that apply

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

Replacement Plan Impacts (replacement plan decisions only)

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

Technical Evaluation Panel Findings and Recommendations (attach if any)

<input checked="" type="checkbox"/> Approve <input type="checkbox"/> Approve w/Conditions <input type="checkbox"/> Deny <input type="checkbox"/> No TEP Recommendation <p>TEP member Ben Meyer (BWSR) commented on 5/7/24 that the boundary looks like it follows a contour on a steep slope.</p> <p>TEP members Nicole Maras (RWMWD- LGU) and Alexis Lipstein (Ramsey County) completed a field review of the delineation on 5/8/24. The boundaries flagged in the field were consistent with onsite observations. No changes to the boundary or type are requested.</p>
--

LGU Decision

<input checked="" type="checkbox"/> Approved with Conditions (specify below) ¹ <input type="checkbox"/> Approved ¹ <input type="checkbox"/> Denied List Conditions: - Submit GIS shapefile of wetland boundary.
Decision-Maker for this Application: <input checked="" type="checkbox"/> Staff <input type="checkbox"/> Governing Board/Council <input type="checkbox"/> Other:
Decision is valid for: <input checked="" type="checkbox"/> 5 years (default) <input type="checkbox"/> 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 decision¹.

<input type="checkbox"/> Attachment(s) (specify): <input checked="" type="checkbox"/> Summary: Based on a review of the application, delineation report, and an onsite field review no changes are requested. The boundary and type are approved.

¹ Findings must consider any TEP recommendations.

Attached Project Documents

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

Appeals of LGU Decisions

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

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

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

Yes¹ No

¹If 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:

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

Optional or As Applicable:

<input checked="" type="checkbox"/> Corps of Engineers: Alex Meincke	
<input type="checkbox"/> BWSR Wetland Mitigation Coordinator (required for bank plan applications only):	
<input type="checkbox"/> Members of the Public (notice only):	<input checked="" type="checkbox"/> Other: Mary Fitzgerald (RMMWD), Corrin Wendel (City of Little Canada)

Signature: <i>Nicole Maras</i>	Date: 5/23/2024
--	------------------------

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 05, 2024

Project Name Woodland Hills Church Pavement Reduction Project Number 24-29

Applicant Name Jodi Cremers, Woodland Hills Church

Type of Development Water Quality

Property Description

This project is located off Van Dyke Street, north of Larpenteur Avenue in the City of Maplewood. The applicant is proposing to partner with RWMWD to reduce impervious area in the existing parking lot by 1.25 acres. A large rain garden and additional green space is planned in addition to a demonstration site for a tiny homes settlement for people experiencing homelessness. A grant funding request was presented and approved at the April 2024 board meeting (#24-16 CS). The proposed project triggers Rule F for erosion and sediment control, however permanent stormwater treatment requirements do not apply due to the nature of the work and associated restoration/pavement rehabilitation.

Watershed District Policies or Standards Involved:

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

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.

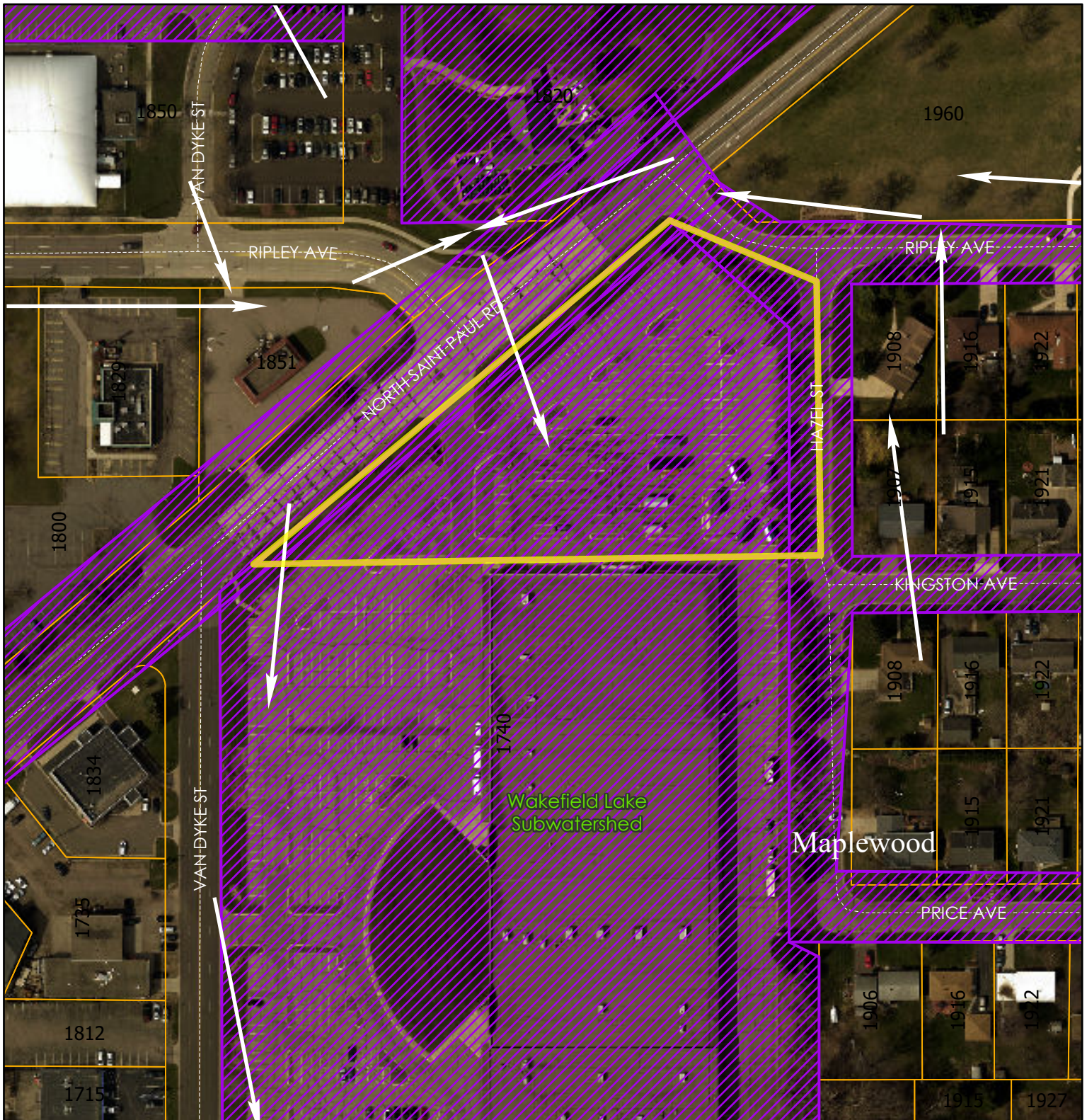
Staff Recommendation

Staff recommends approval of this permit.

Attachments:

- Project Location Map
- Project Grading Plan

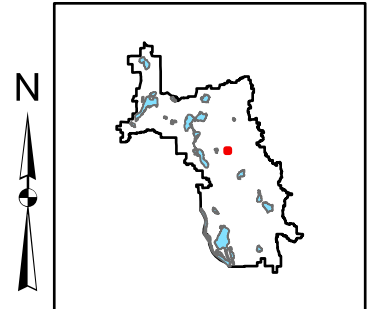
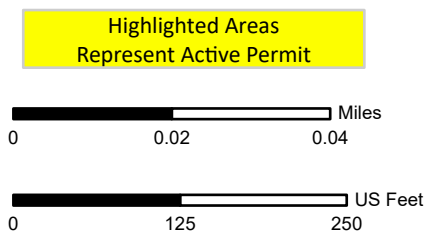
#24-29 Woodland Hills Church Pavement Reduction



Wetlands

- Manage A
- Manage B
- Manage C
- Lake
- Sediment Pond
- Not Assessed

- Flow Arrows
- Roads
- Permits
- Cities
- Subwatersheds
- Ramsey Co Parcels
- RWMWD Boundary



24-29

Special Provisions

None

Stewardship Grant Application Summary

Project Name: Woodland Hills Church

Application Number: 24-16 CS

Board Meeting Date: 4/3/2024

Applicant Name: Jodi Cremers

Residential **Commercial/Government**

Project Overview:

This project is located off N St. Paul Rd and Van Dyke St at Woodland Hills Church. The applicant is proposing to remove a little over of 1.25 acres of asphalt in the north end of the parking lot. They will be installing a large rain garden along with other green space areas to create a demonstration site for a tiny homes settlement for people experiencing homelessness. This project is located in a priority subwatershed so is eligible for 100% coverage up to \$100,000. Given its location in a medium priority SVI (social vulnerability index) area, staff would like to propose approval of \$49,113 in the Wakefield Lake drainage area stormwater impact fund dollars be allocated towards this project. The applicant has also requested funds be paid directly to the contractor upon project completion. The total project cost is \$394,128 and the grant eligible portion is \$165,180.

BMP type(s):

Rain Garden(1)

Grant Request:

\$149,113.00

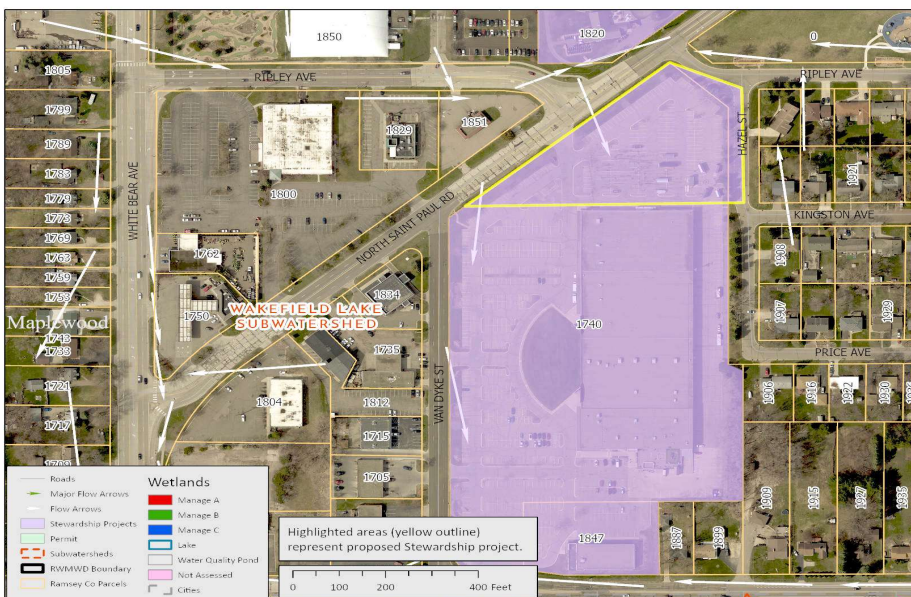
Recommendation:

Staff recommends approval of this application.

Subwatershed:

Wakefield Lake

Location Maps:



Permit Application Coversheet

Date June 05, 2024

Project Name Doctor G Center

Project Number 24-30

Applicant Name Ron Touchette, Doctor G, LLC (c/o Rock Solid Companies)

Type of Development Institutional

Property Description

This project is located off White Bear Avenue, north of Larpenteur Avenue in the City of Maplewood. The applicant is proposing to construct a daycare building with associated parking and landscaping. The total disturbed area is 1.6 acres. An underground filtration system with a liner is proposed to meet stormwater treatment requirements. Filtration is being proposed due to contaminated soils.

Watershed District Policies or Standards Involved:

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

Water Quantity Considerations

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

Water Quality Considerations

Short Term

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

Long Term

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

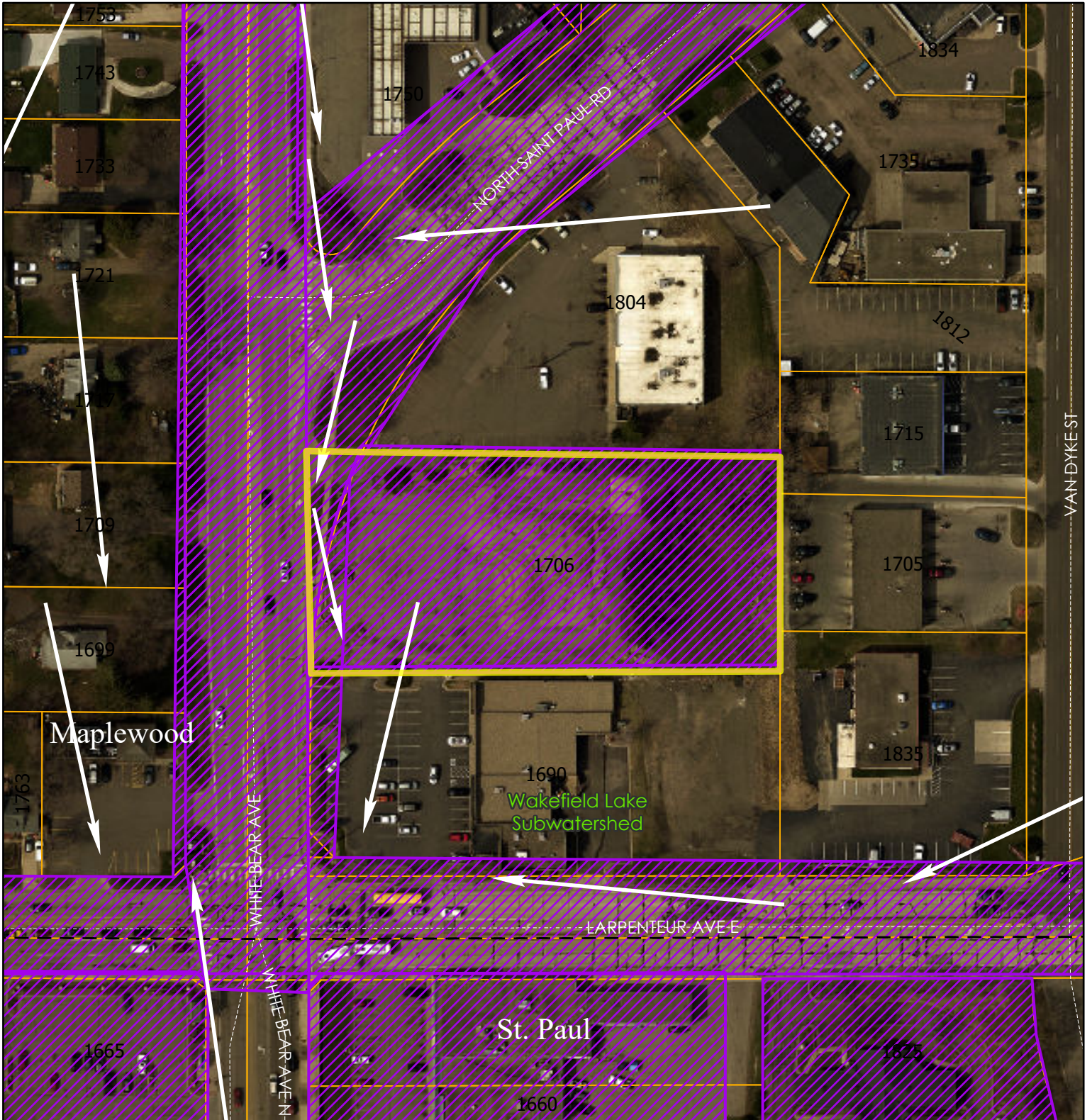
Staff Recommendation

Staff recommends approval of this permit with the special provisions.

Attachments:

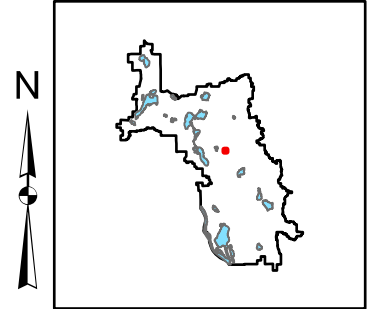
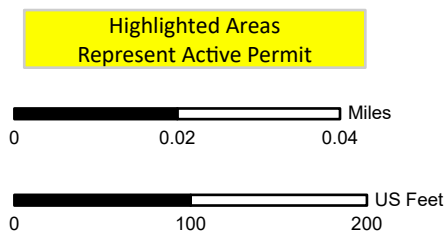
- Project Location Map**
- Project Grading Plan**

#24-30 Doctor G Center



Wetlands	
■	Manage A
■	Manage B
■	Manage C
	Lake
	Sediment Pond
	Not Assessed

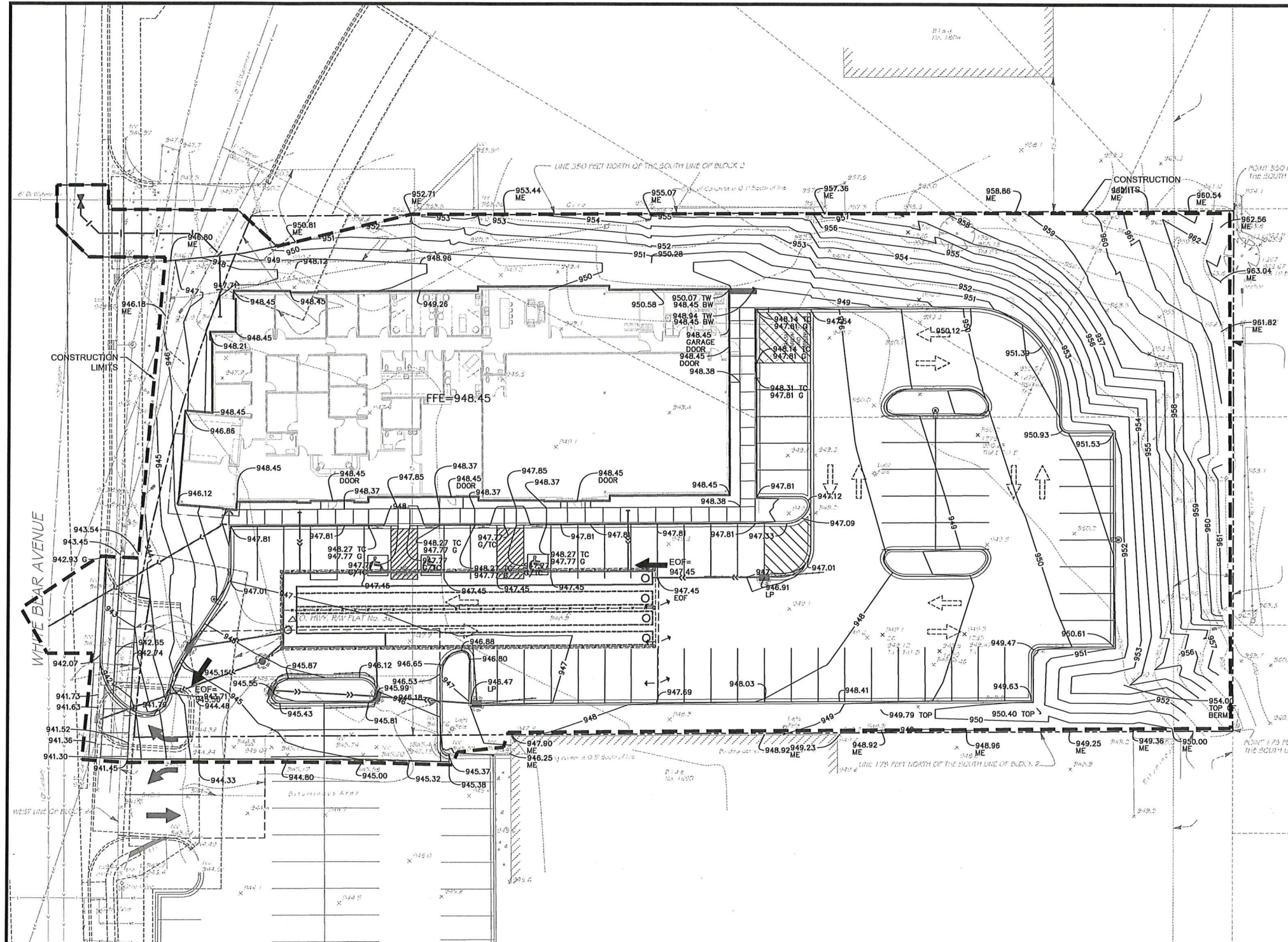
	Flow Arrows
	Roads
	Permits
	Cities
	Subwatersheds
	Ramsey Co Parcels
	RWMWD Boundary



24-30

Special Provisions

1. The applicant shall revise the plans to include additional manholes for routine inspection purposes of the underground filtration system.
2. The applicant shall submit the final, signed plans set.
3. The applicant shall submit an executed stormwater maintenance joint agreement with the City of Maplewood for the proposed stormwater facilities.
4. The applicant shall submit a BMP Operations & Maintenance Plan for the proposed stormwater facilities.
5. The applicant shall submit a copy of the Phase II report referenced in the narrative that describes the contamination present on the site.
6. The applicant shall submit contact information for the trained erosion control coordinator responsible for implementing the Stormwater Pollution Prevention Plan (SWPPP).



GENERAL GRADING NOTES:

- CONTRACTOR SHALL VERIFY ALL BUILDING ELEVATIONS, (FFE, LFE, GFE), PRIOR TO CONSTRUCTION BY CROSS CHECKING WITH ARCHITECTURAL, STRUCTURAL AND CIVIL ELEVATIONS FOR EQUIVALENT "100" ELEVATIONS. THIS MUST BE DONE PRIOR TO EXCAVATION AND INSTALLATION OF ANY FOOTING MATERIALS. VERIFICATION OF THIS COORDINATION SHALL BE CONFIRMED IN WRITING BY CIVIL, SURVEYOR, ARCHITECTURAL, STRUCTURAL AND CONTRACTOR PRIOR TO CONSTRUCTION.
- ALL EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE. CONTACT "GOPHER STATE ONE CALL" (651-454-0002 OR 800-252-1166) FOR UTILITY LOCATIONS, 48 HOURS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY UTILITIES THAT ARE DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.
- SEE SITE PLAN FOR HORIZONTAL LAYOUT & GENERAL GRADING NOTES.
- THE CONTRACTOR SHALL COMPLETE THE SITE GRADING CONSTRUCTION (INCLUDING BUT NOT LIMITED TO SITE PREPARATION, SOIL CORRECTION, EXCAVATION, EMBANKMENT, ETC.) IN ACCORDANCE WITH THE REQUIREMENTS OF THE OWNER'S SOILS ENGINEER. ALL SOIL TESTING SHALL BE COMPLETED BY THE OWNER'S SOILS ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED SOIL TESTS AND INSPECTIONS WITH THE SOILS ENGINEER.
- ANY ELEMENTS OF AN EARTH RETENTION SYSTEM AND RELATED EXCAVATIONS THAT FALL WITHIN THE PUBLIC RIGHT OF WAY WILL REQUIRE A "RIGHT OF WAY EXCAVATION PERMIT". CONTRACTOR IS RESPONSIBLE FOR ACQUIRING THIS PERMIT PRIOR TO CONSTRUCTION IF APPLICABLE.
- ALL EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE. CONTACT "GOPHER STATE ONE CALL" (651-454-0002 OR 800-252-1166) FOR UTILITY LOCATIONS, 48 HOURS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY UTILITIES THAT ARE DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.
- GRADING AND EXCAVATION ACTIVITIES SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS & PERMIT REQUIREMENTS OF THE CITY.
- PROPOSED SPOT GRADES ARE FLOW-LINE FINISHED GRADE ELEVATIONS, UNLESS OTHERWISE NOTED.
- GRADES OF WALKS SHALL BE INSTALLED WITH 5% MAX. LONGITUDINAL SLOPE AND 1% MIN. AND 2% MAX. CROSS SLOPE, UNLESS OTHERWISE NOTED.
- PROPOSED SLOPES SHALL NOT EXCEED 3:1 UNLESS INDICATED OTHERWISE ON THE DRAWINGS. MAXIMUM SLOPES IN MAINTAINED AREAS IS 4:1.
- PROPOSED RETAINING WALLS, FREESTANDING WALLS, OR COMBINATION OF WALL TYPES GREATER THAN 4' IN HEIGHT SHALL BE DESIGNED AND ENGINEERED BY A REGISTERED RETAINING WALL ENGINEER. DESIGN DRAWINGS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF GRADE STAKES THROUGHOUT THE DURATION OF CONSTRUCTION TO ESTABLISH PROPER GRADES. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR A FINAL FIELD CHECK OF FINISHED GRADES ACCEPTABLE TO THE ENGINEER/LANDSCAPE ARCHITECT PRIOR TO TOPSOIL AND SODDING ACTIVITIES.
- IF EXCESS OR SHORTAGE OF SOIL MATERIAL EXISTS, THE CONTRACTOR SHALL TRANSPORT ALL EXCESS SOIL MATERIAL OFF THE SITE TO AN AREA SELECTED BY THE CONTRACTOR, OR IMPORT SUITABLE MATERIAL TO THE SITE.
- EXCAVATE TOPSOIL FROM AREAS TO BE FURTHER EXCAVATED OR REGRADED AND STOCKPILE IN AREAS DESIGNATED ON THE SITE. THE CONTRACTOR SHALL SALVAGE ENOUGH TOPSOIL FOR RESPREADING ON THE SITE AS SPECIFIED. EXCESS TOPSOIL SHALL BE PLACED IN EMBANKMENT AREAS, OUTSIDE OF BUILDING PADS, ROADWAYS AND PARKING AREAS. THE CONTRACTOR SHALL SUBCUT CUT AREAS, WHERE TURF IS TO BE ESTABLISHED, TO A DEPTH OF 6 INCHES. RESPREAD TOPSOIL IN AREAS WHERE TURF IS TO BE ESTABLISHED TO A MINIMUM DEPTH OF 6 INCHES.
- FINISHED GRADING SHALL BE COMPLETED. THE CONTRACTOR SHALL UNIFORMLY GRADE AREAS WITHIN LIMITS OF GRADING, INCLUDING ADJACENT TRANSITION AREAS. PROVIDE A SMOOTH FINISHED GRADE WITHIN SPECIFIED TOLERANCES, WITH UNIFORM LEVELS OR SLOPES BETWEEN POINTS WHERE ELEVATIONS ARE SHOWN, OR BETWEEN SUCH POINTS AND EXISTING GRADES. AREAS THAT HAVE BEEN FINISHED GRADED SHALL BE PROTECTED FROM SUBSEQUENT CONSTRUCTION OPERATIONS, TRAFFIC AND EROSION. REPAIR ALL AREAS THAT HAVE BECOME RUTTED BY TRAFFIC OR ERODED BY WATER OR HAS SETTLED BELOW THE CORRECT GRADE. ALL AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED TO EQUAL OR BETTER THAN ORIGINAL CONDITION OR TO THE REQUIREMENTS OF THE NEW WORK.
- PRIOR TO PLACEMENT OF THE AGGREGATE BASE, A TEST ROLL WILL BE REQUIRED ON THE STREET AND/OR PARKING AREA SUBGRADE. THE CONTRACTOR SHALL PROVIDE A LOADED TANDEM AXLE TRUCK WITH A GROSS WEIGHT OF 25 TONS. THE TEST ROLLING SHALL BE AT THE DIRECTION OF THE SOILS ENGINEER AND SHALL BE COMPLETED IN AREAS AS DIRECTED BY THE SOILS ENGINEER. THE SOILS ENGINEER SHALL DETERMINE WHICH SECTIONS OF THE STREET OR PARKING AREA ARE UNSTABLE. CORRECTION OF THE SUBGRADE SOILS SHALL BE COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SOILS ENGINEER. NO TEST ROLL SHALL OCCUR WITHIN 10' OF ANY UNDERGROUND STORM RETENTION/DETENTION SYSTEMS.
- TOLERANCES
 - THE BUILDING SUBGRADE FINISHED SURFACE ELEVATION SHALL NOT VARY BY MORE THAN 0.30 FOOT ABOVE, OR 0.30 FOOT BELOW, THE PRESCRIBED ELEVATION AT ANY POINT WHERE MEASUREMENT IS MADE.
 - THE STREET OR PARKING AREA SUBGRADE FINISHED SURFACE ELEVATION SHALL NOT VARY BY MORE THAN 0.05 FOOT ABOVE, OR 0.10 FOOT BELOW, THE PRESCRIBED ELEVATION OF ANY POINT WHERE MEASUREMENT IS MADE.
 - AREAS WHICH ARE TO RECEIVE TOPSOIL SHALL BE GRADED TO WITHIN 0.30 FOOT ABOVE OR BELOW THE REQUIRED ELEVATION, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
 - TOPSOIL SHALL BE GRADED TO PLUS OR MINUS 1/2 INCH OF THE SPECIFIED THICKNESS.
- MAINTENANCE
 - THE CONTRACTOR SHALL PROTECT NEWLY GRADED AREAS FROM TRAFFIC AND EROSION, AND KEEP AREA FREE OF TRASH AND DEBRIS.
 - CONTRACTOR SHALL REPAIR AND REESTABLISH GRADES IN SETTLED, ERODED AND RUTTED AREAS TO SPECIFIED TOLERANCES, DURING THE CONSTRUCTION, IF REQUIRED, AND DURING THE WARRANTY PERIOD, ERODED AREAS WHERE TURF IS TO BE ESTABLISHED SHALL BE RESEDED AND MULCHED.
 - WHERE COMPLETED COMPACTED AREAS ARE DISTURBED BY SUBSEQUENT CONSTRUCTION OPERATIONS OR ADVERSE WEATHER, CONTRACTOR SHALL SCARIFY, SURFACE, RESHAPE, AND COMPACT TO REQUIRED DENSITY PRIOR TO FURTHER CONSTRUCTION.

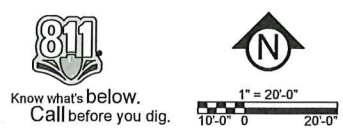
CITY OF MAPLEWOOD GRADING NOTES:

- RESERVED FOR CITY SPECIFIC GRADING NOTES.

EROSION CONTROL NOTES:
SEE SWPPP ON SHEETS SW1.0 - SW1.5

GRADING PLAN LEGEND:

- 1125 --- EX. 1' CONTOUR ELEVATION INTERVAL
- 1137 --- 1.0' CONTOUR ELEVATION INTERVAL
- 41.26 SPOT GRADE ELEVATION (GUTTER/FLOW LINE UNLESS OTHERWISE NOTED)
- 891.00 G SPOT GRADE ELEVATION GUTTER
- 891.00 TC SPOT GRADE ELEVATION TOP OF CURB
- 891.00 BS/TS SPOT GRADE ELEVATION BOTTOM OF STAIRS/TOP OF STAIRS
- 891.00 ME SPOT GRADE ELEVATION MATCH EXISTING
- ===== CURB AND GUTTER (T.O = TIP OUT)
- EOF=1135.52 EMERGENCY OVERTFLOW
- CONSTRUCTION LIMITS
- GRADE BREAK - HIGH POINTS



**PRELIMINARY:
NOT FOR
CONSTRUCTION**

PROJECT
DOCTOR G CENTER
1706 WHITE BEAR AVE, MAPLEWOOD, MN 55109
ROCK SOLID COMPANIES
7078 EAST FISH LAKE ROAD, MAPLE GROVE, MN 55311

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.

David J. Knaeble
David J. Knaeble
DATE 4/17/24 LICENSE NO. 48776

ISSUE/SUBMITTAL SUMMARY	
DATE	DESCRIPTION
4/17/24	CITY SUBMITTAL
4/17/24	WATERSHED SUBMITTAL

REVISION SUMMARY	
DATE	DESCRIPTION

REVISION SUMMARY	
DATE	DESCRIPTION

Permit Application Coversheet

Date June 05, 2024

Project Name Highwood Hills Rec Center Athletic Fields Project Number 24-31

Applicant Name Anne Gardner, City of St. Paul Parks & Recreation

Type of Development Park/Green Space

Property Description

This project is located at Highwood Hills Recreation Center off Londin Lane East and west of McKnight Road in the City of St. Paul. The applicant is proposing to remove and replace the existing athletic field surface, including new irrigation, fencing, tree plantings, and minor asphalt paving replacement. The total disturbed area is 2.83 acres. The applicant is proposing to deduct 160 cubic feet of available volume reduction banked credits to meet stormwater treatment requirements. The project will result in no increase in impervious area, thus rate control requirements are maintained with the project as proposed.

Watershed District Policies or Standards Involved:

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

Water Quantity Considerations

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

Water Quality Considerations

Short Term

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

Long Term

The proposed site plan is sufficient to maintain the long term quality of downstream water resources.

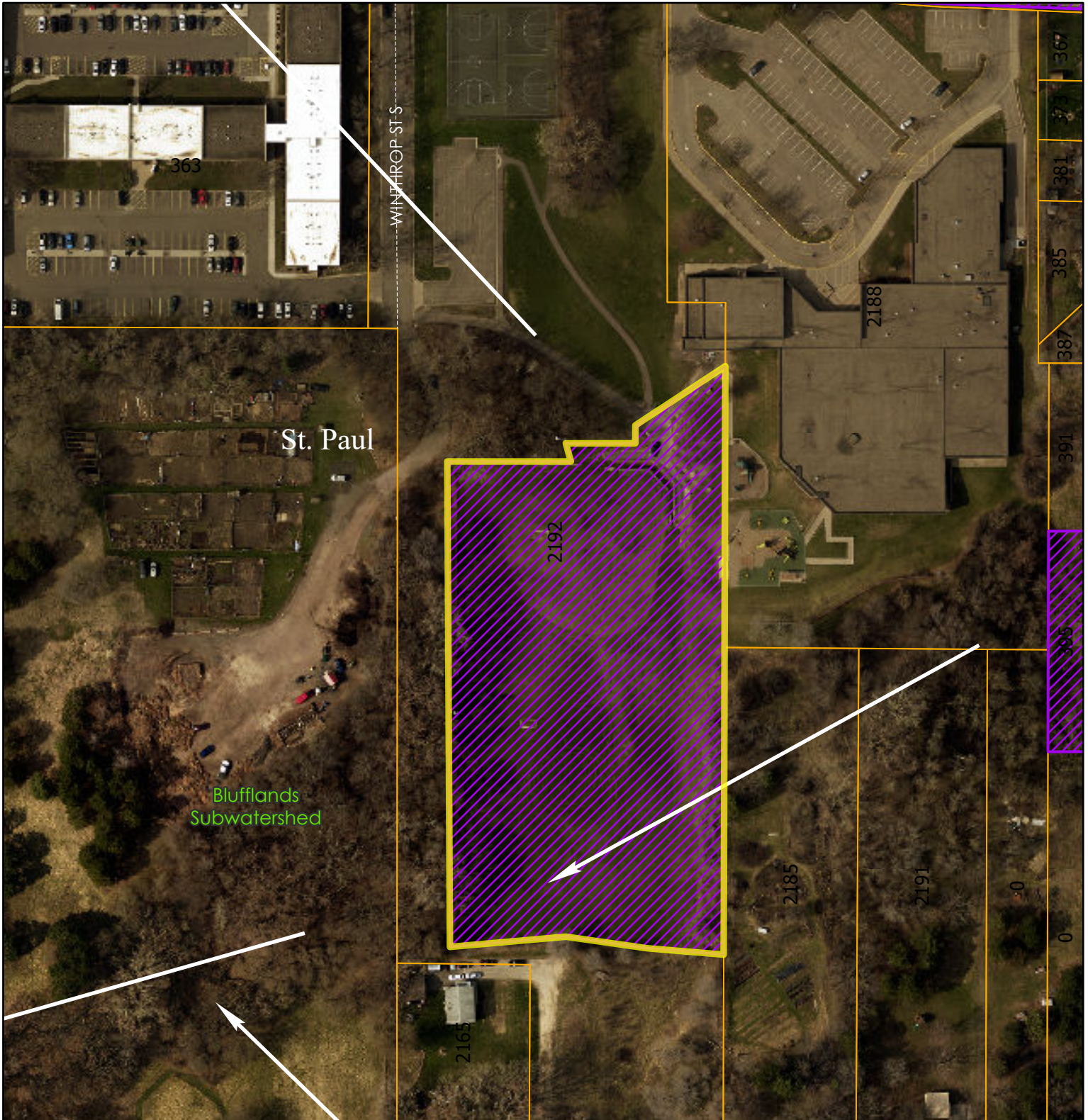
Staff Recommendation

Staff recommends approval of this permit with the special provisions.

Attachments:

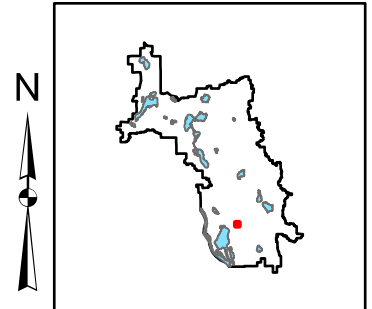
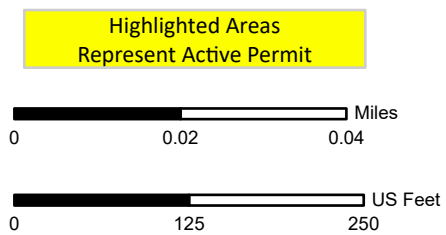
- Project Location Map**
- Project Grading Plan**

#24-31 Highwood Hills Rec Center Athletic Fields



Wetlands	
■	Manage A
■	Manage B
■	Manage C
	Lake
	Sediment Pond
	Not Assessed

	Flow Arrows
	Roads
	Permits
	Cities
	Subwatersheds
	Ramsey Co Parcels
	RWMWD Boundary



24-31

Special Provisions

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



SAINT PAUL MINNESOTA
Parks and Recreation Department
400 City Hall Annex
25 West Street
Saint Paul, MN 55102

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Landscape Architect under the laws of the State of Minnesota.

Printed Name: Ezra Gardner
Signature: [Signature]
Date: 05/22/2024, License #: 65515

City of Saint Paul Department of Parks and Recreation
Highwood Hills Recreation Center Athletic Fields
2192 Londin Lane, Saint Paul, MN 55119

No.	Date	Revision Description
1	5/21/24	SWPPP SUBMISSION
2	5/22/24	SWPPP REVISION

PROJECT NUMBER: L24-01-17
DATE: 05/22/2024
DRAWN BY: MV
CHECKED BY: AM
SUPERVISOR: AG

GRADING AND EROSION CONTROL PLAN
L1.0

GENERAL NOTES

- SEE SHEET L1.1 FOR SWPPP NOTES AND EROSION AND SEDIMENT CONTROL DETAILS.
- CONTRACTOR TO ACCESS SITE FROM WINTHROP STREET SOUTH THROUGH THE HIGHWOOD HILLS RECREATION CENTER PARKING LOT.
- CONTRACTOR SHALL VERIFY SITE ACCESS & CONSTRUCTION LIMITS PRIOR TO THE START OF CONSTRUCTION.
- CONTRACTOR TO PROTECT BOTH ONSITE AND OFFSITE CATCH BASINS FROM SEDIMENT GENERATED BY CONSTRUCTION.
- TREES DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE RESTORED OR REPLACED TO THE SATISFACTION OF, AND AT NO COST TO THE CITY AS DETERMINED BY THE FORESTRY MANAGER.
- CONTRACTOR SHALL CONTACT CITY FORESTER, PRIOR TO DEMOLITION OR OTHER LAND DISTURBANCE ASSOCIATED WITH SITE CONSTRUCTION, TO VERIFY TREE PROTECTION.
- ADJACENT STREETS AND ALLEYS MUST BE SWEEPED TO KEEP THEM FREE OF SEDIMENT. CONTRACTOR MUST MONITOR CONDITIONS AND SWEEP AS NEEDED OR WITHIN 24 HOURS OF NOTICE BY THE CITY.
- EROSION CONTROL PRACTICES SHALL REMAIN IN PLACE UNTIL THE FINAL COMPLETION OF THE PROJECT OR UNTIL VEGETATION HAS BEEN ESTABLISHED. (WHICHEVER IS LATER). PLACE BIOLOGS OVER IMPERVIOUS SURFACES WHERE SILT FENCE CANNOT BE PROPERLY INSTALLED.
- CONTACT NICK FADDEN AT 651-632-2419 TO MARK PRIVATE UTILITIES PRIOR TO ACCESSING THE SITE.
- INSTALL TEMPORARY FENCING AT CONSTRUCTION LIMITS TO DEFINE CONSTRUCTION ZONE.
- ALL CONSTRUCTION EQUIPMENT TO BE CONFINED TO CONSTRUCTION LIMITS DENOTED ON PLAN.

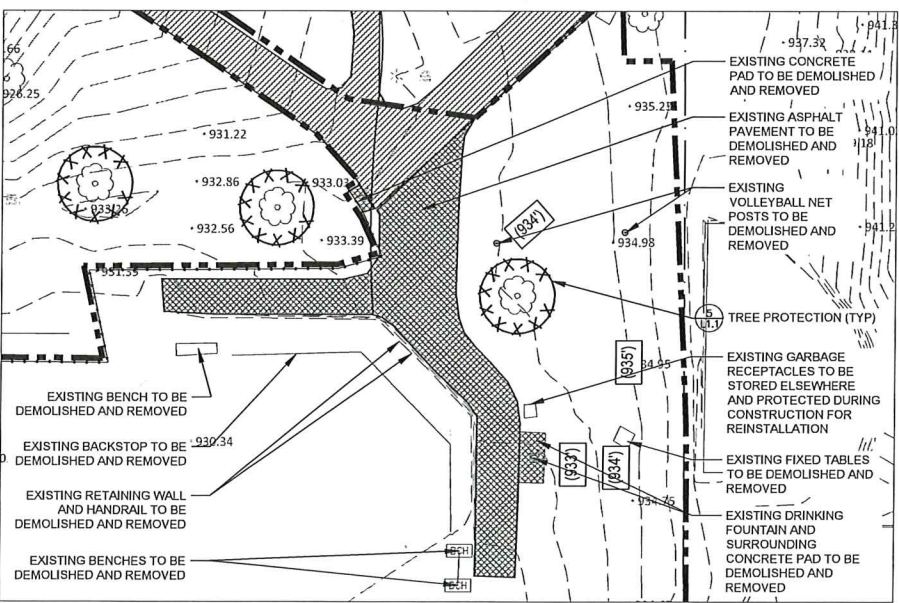
SITE CONTEXT

RECEIVING WATERS
THE MISSISSIPPI RIVER IS THE EVENTUAL RECEIVING WATER FOR THIS PROJECT. THE EXISTING TOPOGRAPHY OF THE SITE DRAINS TO THE WEST ONTO A WOODED AREA ON THE ADJACENT RAMSEY COUNTY PROPERTY. THE SITE'S PREDOMINANT RUNOFF PATTERN WILL NOT CHANGE. IT WILL FOLLOW THE ORIGINAL ROUTING EXCEPT FOR 1/3 OF THE PROJECT AREA WILL INSTEAD STAY ON PARKS PROPERTY, DRAINING NORTH TO A LOW POINT IN THE WOODS ON CITY OF ST. PAUL PROPERTY, WHILE THE REMAINING 2/3 OF THE PROJECT AREA WILL DRAIN TO THE SAME LOCATION AS IT DOES TODAY (ONTO A WOODED AREA ON THE ADJACENT RAMSEY COUNTY PROPERTY). THE USE AND LAND COVER OF THE SITE WILL NOTE CHANGE. THIS PROJECT DOES NOT REQUIRE ADDITIONAL STORMWATER TREATMENT.

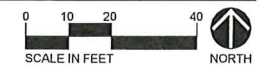
SPECIAL OR IMPAIRED WATERS
THE MISSISSIPPI RIVER IS AN IMPAIRED STREAM PER THE DRAFT 2020 MN IMPAIRED WATERS LIST. APPENDIX A REQUIREMENTS APPLY TO THIS PROJECT.

AREAS OF ENVIRONMENTAL SENSITIVITY
EXISTING STORMWATER FACILITIES WITHIN AND NEAR THE PROJECT BOUNDARY ARE SHOWN ON THE GRADING AND EROSION CONTROL PLAN (1/L1.0).

ITEM DESCRIPTION	UNIT	QUANTITY
INLET PROTECTION	EACH	2
CATCH BASIN PROTECTION	EACH	1
TEMPORARY CONSTRUCTION ENTRANCE	EACH	1
STANDARD SILT FENCE	LF	1,090

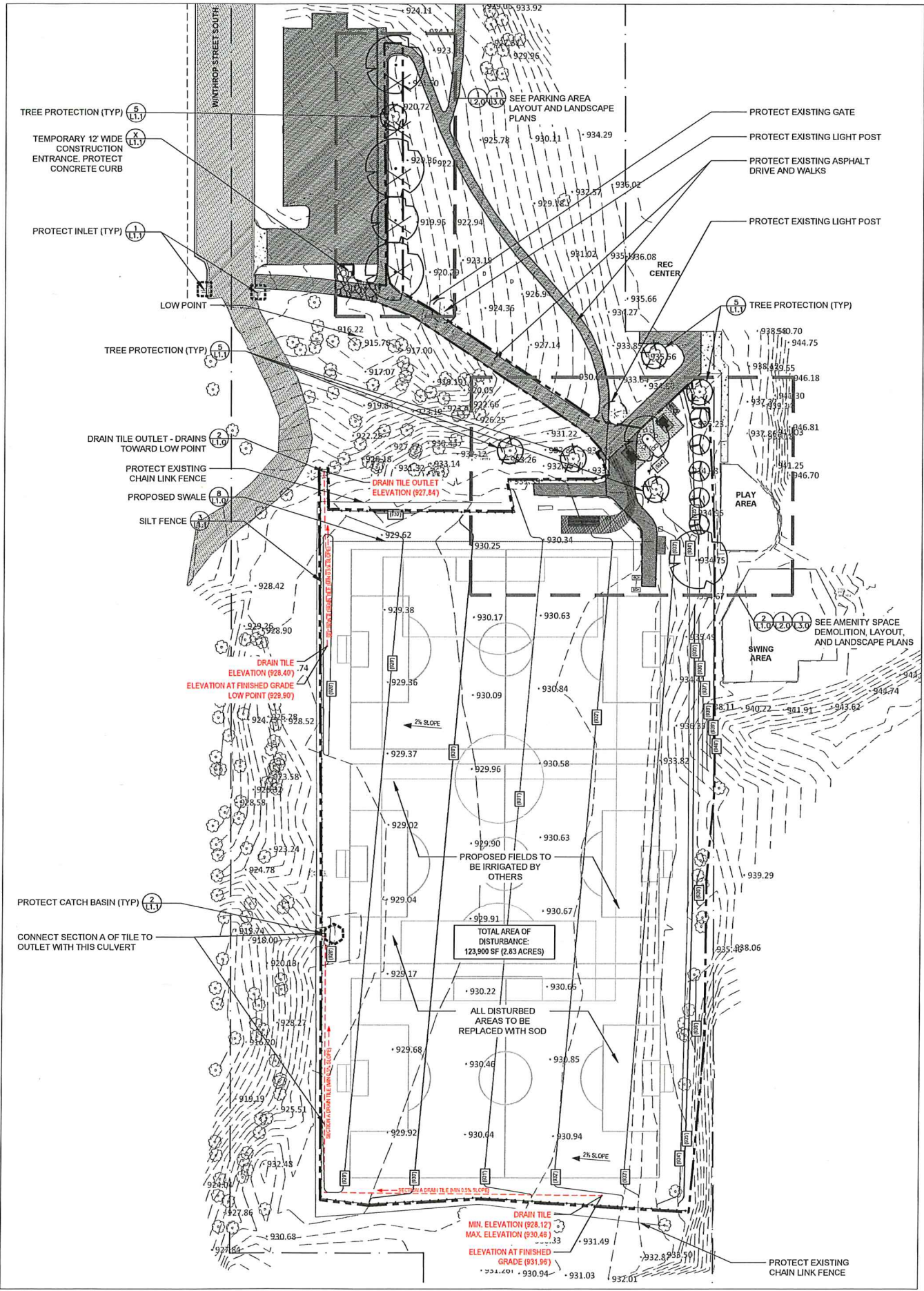


2 DEMOLITION ENLARGEMENT
SCALE: 1" = 20'-0"

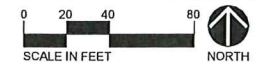


LEGEND

- CONSTRUCTION LIMITS
- SILT FENCE
- PROPERTY LINE
- 6" PERFORATED DRAIN PIPE - SLOPE 1/2% MIN TO OUTLET
- CURB INLET PROTECTION
- CATCH BASIN PROTECTION
- EXISTING LIGHTS TO BE PROTECTED
- TREE PROTECTION
- EXISTING TREE (LARGER THAN 4" DBH)
- TEMPORARY CONSTRUCTION ENTRANCE
- EXISTING ASPHALT PAVEMENT
- PROPOSED ASPHALT PAVEMENT
- EXISTING CONCRETE PAVEMENT
- PROPOSED CONCRETE PAVEMENT
- EXISTING PAVEMENT TO BE REMOVED
- EXISTING ELEVATIONS
- PROPOSED ELEVATIONS
- EXISTING CONTOUR
- PROPOSED CONTOURS
- PROPOSED CANOPY TREE (SEE L3.0 FOR SPECIES)
- PROPOSED UNDERSTORY TREE (SEE L3.0 FOR SPECIES)
- PROPOSED SPLIT RAIL FENCE



1 GRADING, EROSION, AND SEDIMENT CONTROL PLAN
SCALE: 1" = 40'-0"



P:\Highwood\124-01-17 Highwood Hills Athletic Fields\Construction Docs\Highwood Hills Athletic Fields.dwg May 22, 2024 - 11:13am

Permit Application Coversheet

Date June 05, 2024

Project Name Delaware Place

Project Number 24-33

Applicant Name Doug Andrus, Andrus Built, LLC

Type of Development Residential

Property Description

This project is located off Delaware Avenue north of 17th Avenue East in the City of North St. Paul. The applicant is proposing to construct 5 townhomes (10 units) and associated utilities. The total disturbed area is 1.4 acres. An infiltration basin is proposed to meet stormwater treatment requirements. Pretreatment will include grass filter swales.

Watershed District Policies or Standards Involved:

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

Water Quantity Considerations

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

Water Quality Considerations

Short Term

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

Long Term

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

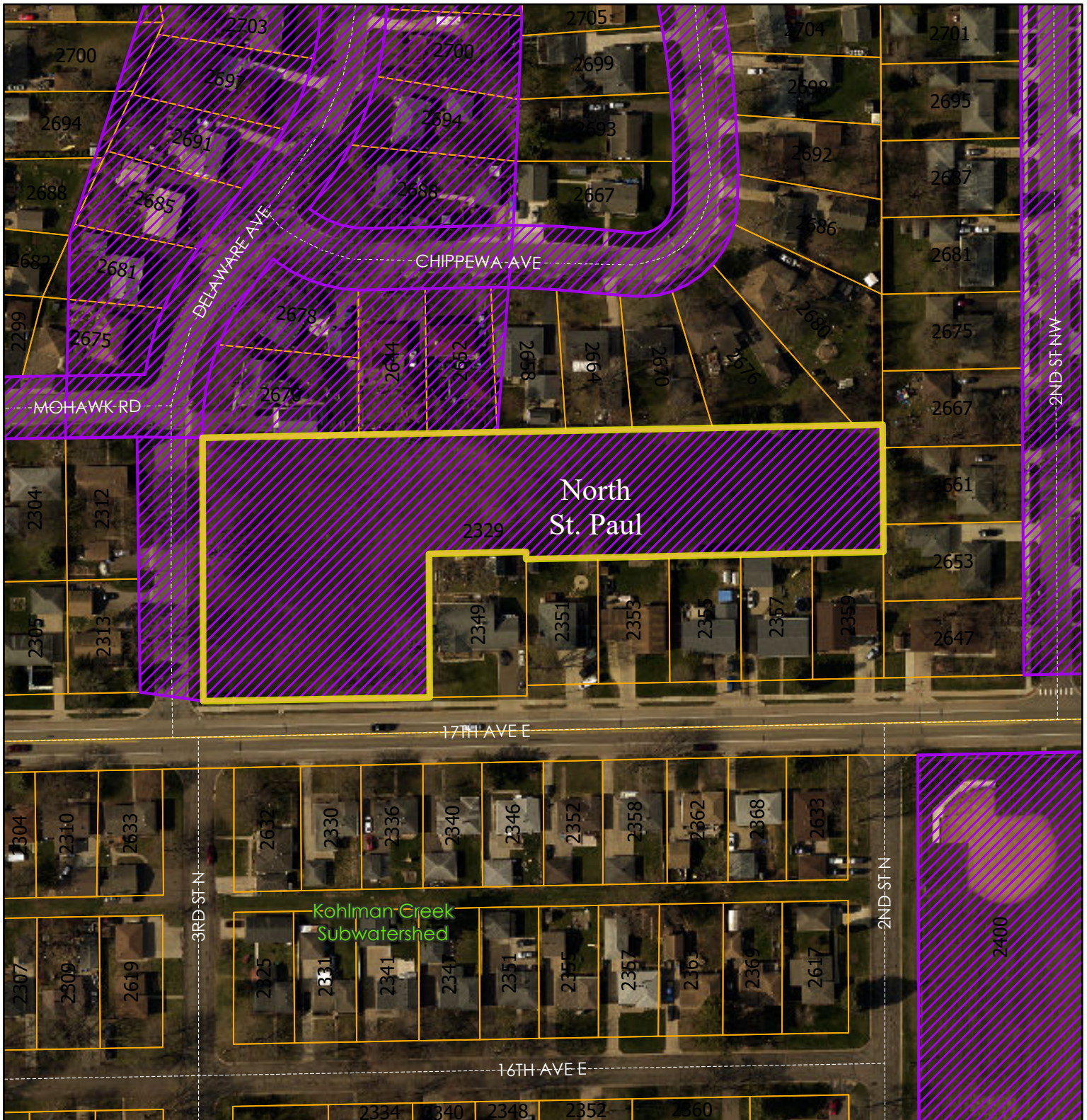
Staff Recommendation

Staff recommends approval of this permit with the special provisions.

Attachments:

- Project Location Map**
- Project Grading Plan**

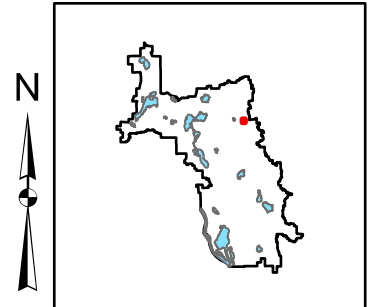
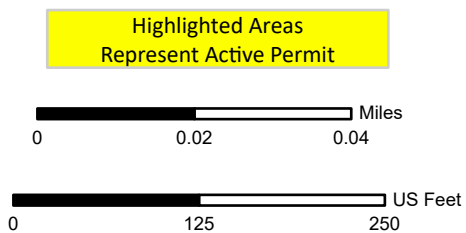
#24-33 Delaware Place



Wetlands

- Manage A
- Manage B
- Manage C
- Lake
- Sediment Pond
- Not Assessed

- Roads
- Permits
- Cities
- Subwatersheds
- Ramsey Co Parcels
- RWMWD Boundary



Special Provisions

1. The applicant shall submit the escrow payment of \$7,000.
2. The applicant shall submit construction details for the proposed basin including typical section and outlet.
3. The applicant shall add notes to the plans:
 - A. Notify Mary Fitzgerald, Ramsey-Washington Metro Watershed District, at 651-792-7956 prior to beginning construction activity to schedule an initial erosion control inspection.
 - B. Notify Mary Fitzgerald, Ramsey-Washington Metro Watershed District, at 651-792-7956 at least 48 hours prior to construction of the proposed stormwater basin.
 - C. The specified erosion and sediment control practices are the minimum. Additional practices may be required during the course of construction.
4. The applicant shall submit the final, signed plans set.
5. The applicant shall submit an executed stormwater maintenance agreement for the proposed stormwater facilities.
6. The applicant shall submit a BMP Operations & Maintenance Plan for the proposed stormwater facilities.
7. The applicant shall submit the geotechnical report with updated Boring Location diagram.
8. The applicant shall submit contact information for the trained erosion control coordinator responsible for implementing the Stormwater Pollution Prevention Plan (SWPPP).
9. The applicant shall submit a copy of the approved Minnesota Pollution Control Agency's NPDES Construction Permit coverage for the project.

GENERAL NOTES:

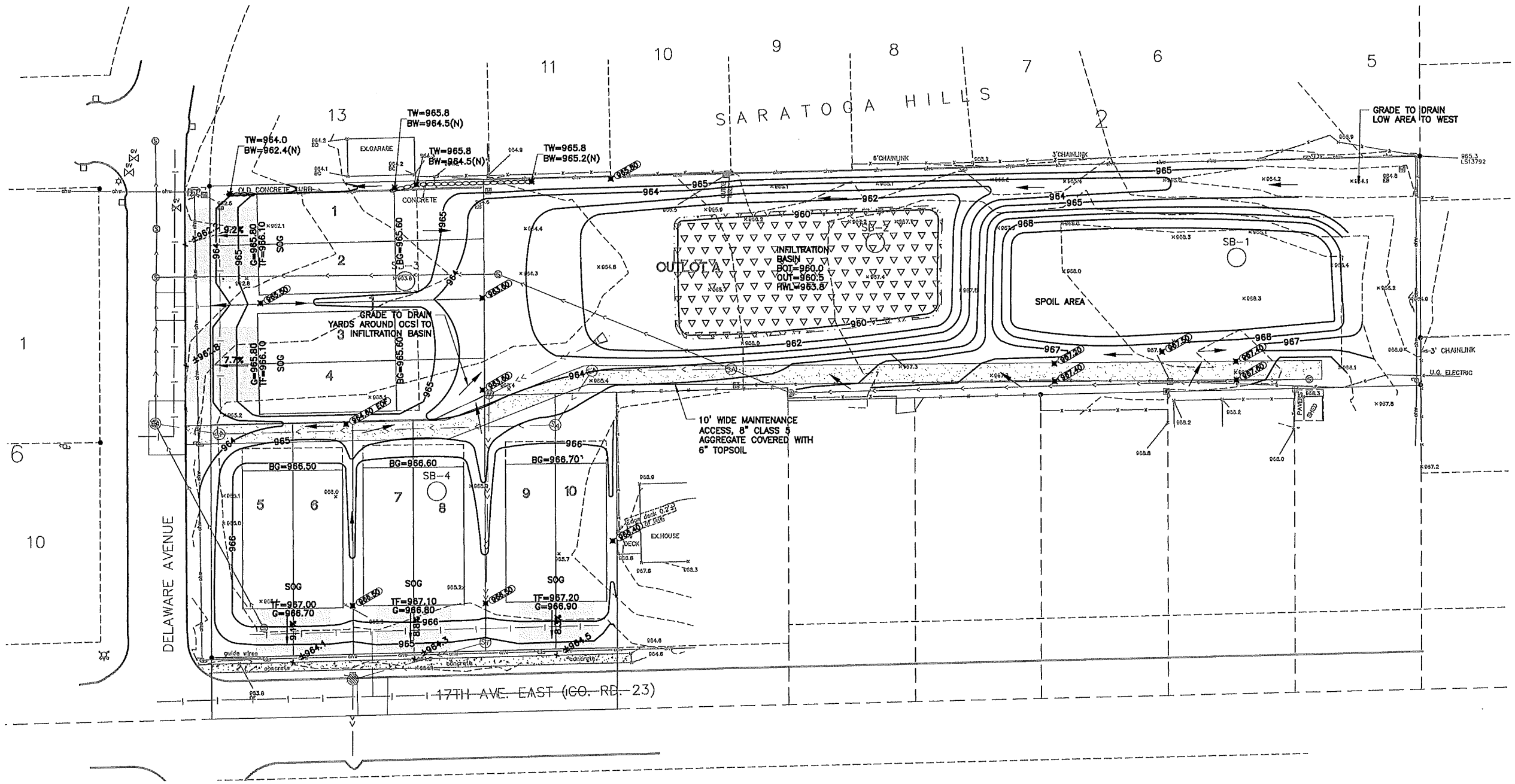
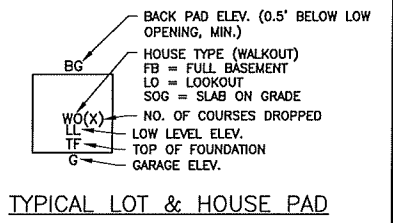
- The subsurface utility location information in this plan is utility quality level D. This utility quality level was determined according to the guidelines of CI/ASCE 38-02, titled "Standard Guidelines for the Collection and Depiction of Existing Subsurface Utility Data." Engineer does not guarantee the accuracy of utility locations or that all existing utilities are shown; Contractor is responsible for locating utilities prior to digging.
- Construction shall comply with all applicable governing codes.
- Damaged items or property shall be repaired or replaced at Contractor's expense.
- See erosion control plan and SWPPP for required controls to be installed prior to site disturbance.
- Contractor shall install demarcation fencing at property line as necessary.
- Contours shown are to final grade.
- Curb point elevations are at flow line, unless noted otherwise.
- Basin side slopes shall be 4:1 (max.) below HWL.
- Maximum grading slope in mowed areas to be 3:1 (2:1 in natural areas).
- Structure low opening shall be 1.5' above EOF elevation (City). Low floor elevation must be 2.0' above HWL per RWMWD.
- Swales between lots shall be 2.0% (min.) to extent possible; not less than 1.5%.
- Driveway grades shown indicate grade from garage to back of curb or sidewalk (if applicable).
- Additional stockpiling may be needed; waste excess material as directed.
- See details and note sheets for additional specifications.



0 30 60 FEET

BENCHMARK
(ASSUMED, SEE SURVEY)

- LEGEND:**
- PROPERTY LINE ———
 - SETBACK - - - - -
 - EASEMENT - - - - -
 - WETLAND ———
 - CONTOUR ———
 - SPOT ELEVATION
 - DRAINAGE DIRECTION
 - STORM SEWER / CULVERT
 - BITUMINOUS SURFACE
 - AGGREGATE W/ TOPSOIL COVER
 - RIPRAP
 - RETAINING WALL



Print Date: 5/24/2024 4:09 PM
File Loc: C:\CIVIL Methods, Inc\CM - Documents\17, Delaware Avenue\17, Delaware Avenue\24006_17th Avenue Townhome\03_DRAWINGS AND SPECIFICATIONS\03_DRAWINGS AND SPECIFICATIONS\PRELIMINARY\C401_GRADING.rvt

CIVIL METHODS, INC.
P.O. Box 28038
St. Paul, MN 55128
o:763.210.5713 | www.civilmethods.com

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.

DAVID M. POGGI
DATE: 05-24-2024
LIC. NO.: 44573

DESIGNED: DMP	DATE / REVISION:
DRAWN: DMP	03-16-2024 Preliminary Plan Review Set. NOT FOR CONSTRUCTION
CHECKED: KEB	05-03-2024 Revised Lot 1-4 FFE & maintenance access route / grading. NOT FOR CONSTRUCTION
	05-24-2024 Shifted basin east and changed to SOG homes per WD comment. NOT FOR CONSTRUCTION

DELAWARE PLACE
ANDRUS BUILT, LLC
NORTH ST. PAUL, MN

GRADING
SHEET NO. **C401**



Stewardship Grant Application Summary

Project Name: Applewood Pointe of Shoreview Phase 2

Application Number: 24-32 CS

Board Meeting Date: 6/5/2024

Applicant Name: Mark Catron

Residential **Commercial/Government**

Project Overview:

This project is located off Hodgson Road and Tanglewood Drive in the City of Shoreview. The applicant is proposing to install a large area of native plantings and to convert multiple other turf grass areas into pollinator lawn. The applicant installed a small native habitat restoration area as phase 1 of their turf conversion efforts in 2018. This was approved as grant #18-19 CS for \$1,008.

The native planting/pollinator lawn are eligible for 50% coverage up to a total of \$15,000.

BMP type(s):

Native Habitat Restoration(4)

Grant Request:

\$15,000.00

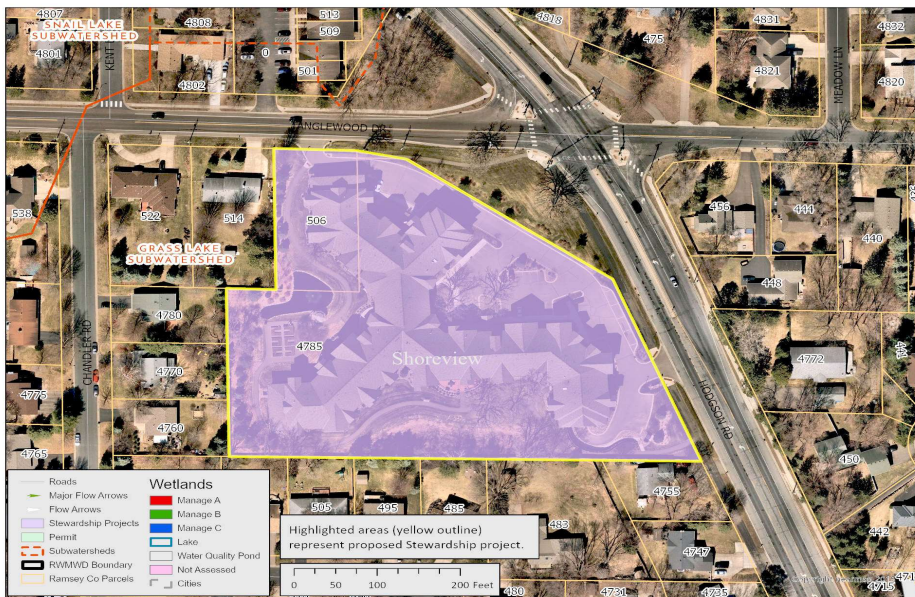
Recommendation:

Staff recommends approval of this application.

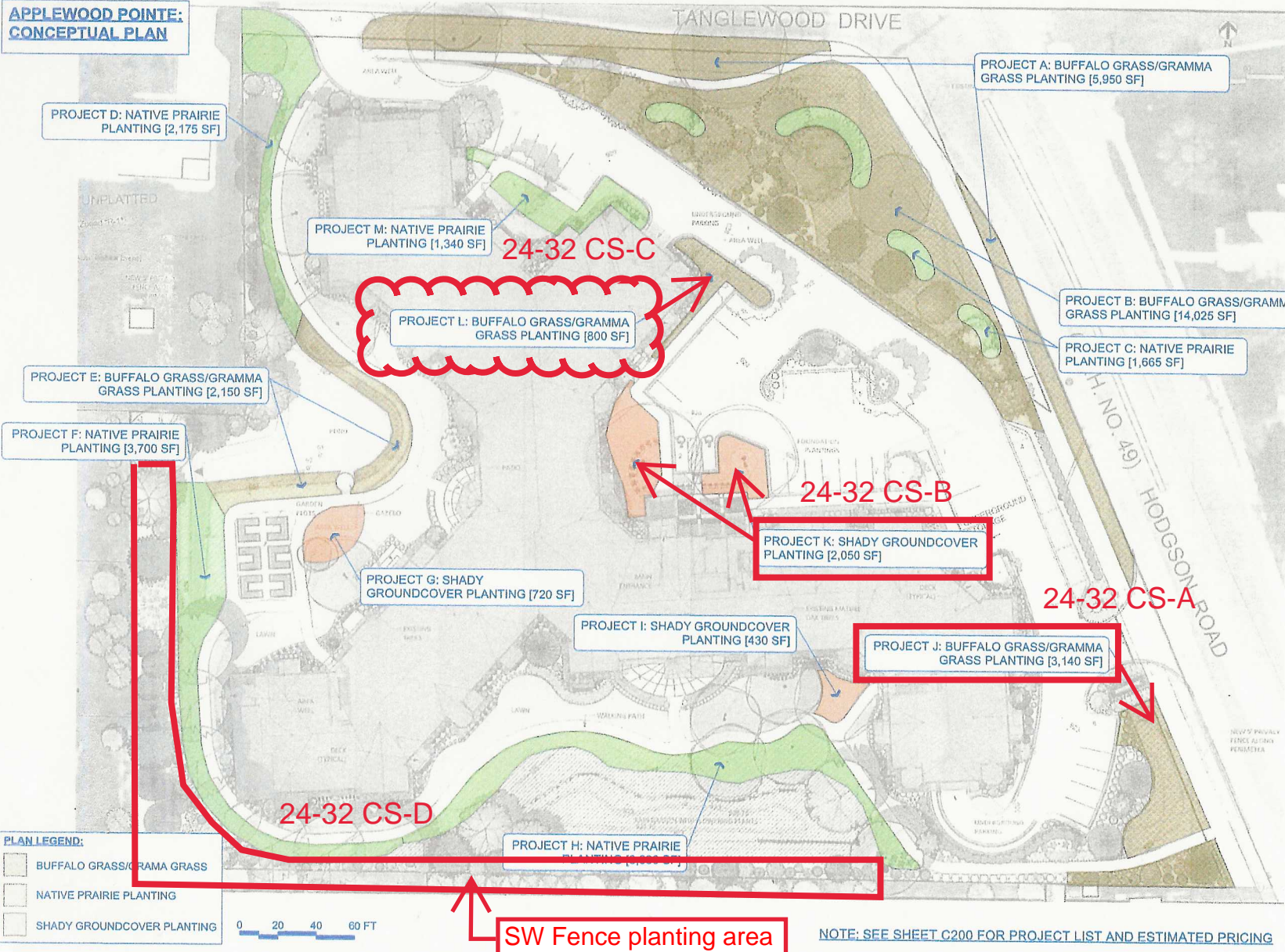
Subwatershed:

Grass Lake

Location Maps:



**APPLEWOOD POINTE:
CONCEPTUAL PLAN**



RAMSEY COUNTY

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

PROJECT:
APPLEWOOD POINTE OF SHOREVIEW
LOCATION:
4785 HODGSON RD
SHOREVIEW, MN 55126
WATERSHED DISTRICT:



DESIGNER: BRIAN T. OLSEN
DATE: 9/13/2023
PAST REVISION:
PAST REVISION:
PAST REVISION:
PAST REVISION:
CHECKED BY:
TAA:

NOTES:
-PLAN FOR CONCEPTUAL PURPOSES, NOT FOR CONSTRUCTION
-ORIGINAL SHEET SIZE: 11"x17"

SCALE: 1"=50'-0" N

CONCEPT PLAN

C100

Consent Agenda Action Item

Board Meeting Date: June 5, 2024

Agenda Item No: 3E

Preparer: Tina Carstens, Administrator

Item Description: Change Order No. 2 for the Woodbury Target Store Targeted Retrofit Project

Background:

Change order 2 for the Woodbury Target Store Targeted Retrofit Project is attached. This change order has items related to changes required by the Woodbury Target store property management company. Because these changes were not identified by Target during the planning and bidding process, Target Corporation will reimburse the District for these additional costs.

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: Implement retrofit water quality improvement projects.

Staff Recommendation:

Approve Change Order No. 2.

Financial Implications:

This change order will increase the contract price by \$27,546.25. Target Corporation will reimburse the District for these additional costs.

Board Action Requested:

Approve Change Order No. 2.

Change Order No. 2
Ramsey-Washington Metro Watershed District
Target – Woodbury Stormwater Retrofits

DATE OF ISSUANCE: May 28, 2024

Owner: Ramsey-Washington Metro Watershed District
2665 Noel Drive
Little Canada, MN 55117
Attn: Paige Ahlborg, Tina Carstens

Contractor: Kurilla Contracting
4450 Hwy 25 N
Buffalo, MN 55313
Attn: Austin Kurilla

Engineer: Barr Engineering Company
4300 MarketPointe Drive, Suite 200
Minneapolis, MN 55435
Attn: Katie Turpin-Nagel

C.O.2.A Existing Utility Relocation Coordination

Description of Change:

This change reflects existing irrigation operational conditions that were discovered during onsite meetings with Muir Property Management in early May 2024. Because the irrigation line that runs through the proposed north and south rain gardens distribute water for the entire Valley Creek Plaza site (including the garden center at Lunds and Byerlys), temporary bypass systems must be installed to maintain water usage during construction and until the relocation of the irrigation line is completed. Additionally, extensive communication wire bundles are associated with the irrigation system that must also be relocated. Given the complexity of the irrigation system, Kurilla Contracting is planning to subcontract with Precise Irrigation who installed and continues to maintain the original irrigation system. Precise Irrigation will install a temporary main line with matching wire bundle for temporary bypass and permanently install the main line and wire bundle after the rain gardens are rough graded. Target Corporation plans to reimburse RWMWD for this additional cost.

Bid Form:

Delete the following from Section 00 41 00 ARTICLE 4.01.A. BID ITEMS:

Bid Item	Description	Unit	Estimated Quantity	Unit Price	Estimated Cost
C	Existing Utility Relocation Coordination	LS	1	\$8,500	\$8,500

Add the following to Section 00 41 00 ARTICLE 4.01.A. BID ITEMS:

Bid Item	Description	Unit	Estimated Quantity	Unit Price	Estimated Cost
C	Existing Utility Relocation Coordination	LS	1	\$25,900.00	\$25,900.00

C.O.1.B Landscaping and Restoration Modifications

Description of Change:

These changes reflect landscaping and restoration decisions made during onsite meetings with Muir Property Management in early May 2024. These landscape and restoration modifications were necessary for project approval. Target Corporation plans to reimburse RWMWD for these additional costs.

Bid Form:

Delete the following from Section 00 41 00 (Bid Form) ARTICLE 5.01.A. BID ITEMS:

Bid Item	Description	Unit	Estimated Quantity	Unit Price	Estimated Cost
I	Removal and Disposal of Tree 6" - 16" Diameter	EA	8	\$400.00	\$3,200.00
RR	Twice Shredded Hardwood Mulch (P)	CY	170	\$70.00	\$11,900.00
UU	Perennials - 1 Gallon Container (P)	EA	3510	\$17.00	\$59,670.00
WW	Deciduous Tree (#20, Cont.) (P)	EA	8	\$400.00	\$3,200.00
XX	Low Grow Turf Seeding	SF	3461	\$0.25	\$865.25
YY	Erosion Control Blanket for Seeding	SF	3461	\$0.50	\$1,730.50

Add the following to Section 00 41 00 (Bid Form) ARTICLE 5.01.A. BID ITEMS:

Bid Item	Description	Unit	Estimated Quantity	Unit Price	Estimated Cost
I	Removal and Disposal of Tree 6" - 16" Diameter	EA	6	\$400.00	\$2,400.00
UU	Perennials - 1 Gallon Container (P)	EA	3528	\$17.00	\$59,976.00
C.O.2.A	Dark Hardwood Mulch (P)	CY	170	\$85.00	\$14,450.00
C.O.2.B	Deciduous Tree (2" Caliper B&B)	EA	6	\$950.00	\$5,700.00
C.O.2.C	Sodding (Salt Tolerant)	SF	3124	\$1.50	\$4,686.00
C.O.2.D	Root Pruning	LS	1	\$3,500.00	\$3,500.00

Measurement and Payment:

Add the following to Section 01 22 00 (Unit Price Measurement and Payment) 1.04 BID ITEMS:

C.O.2.A. Dark Hardwood Mulch (P)

1. Method of Measurement: Dark Hardwood Mulch shall be measured on the basis of plan quantities of unit volume in cubic yards (C.Y.), as measured by the Engineer on the Drawings, based on the areas times the depth as shown on the Drawings, rounded to the nearest whole cubic yard.

2. Basis of Payment: Contractor shall be paid a unit price per cubic yard (C.Y.) for Dark Hardwood Mulch furnished and installed. This unit price shall be payment in full for the costs of all supervision, labor, materials, equipment, profit and overhead, and performing all operations as are necessary to furnish, install, and maintain mulch for duration of Work, as shown on the Drawings, all complete as specified.

C.O.2.B. Deciduous Tree (2" Caliper B&B)

1. Method of Measurement: Deciduous Tree (2" Caliper B&B) shall be measured on the unit basis of each (EA) tree furnished, planted, and warranted as specified and as shown on the Drawings and as counted in the field by the Engineer.
2. Basis of Payment: Contractor shall be paid a unit price per each (Each) 2" caliper balled and burlapped (B&B) deciduous tree furnished and planted. These unit prices shall be payment in full for the costs of all supervision, materials, equipment, labor, supplies, profit and overhead, and performing all operations as are necessary to furnish, store, keep root balls watered as needed, plant, move soil, strap tree to tree guard, and water trees as shown on the Drawings, all complete as specified, including warranty.

C.O.2.C. Sodding (Salt Tolerant)

1. Method of Measurement: Sodding (Salt Tolerant) shall be measured on the basis of actual quantities of unit area in square feet (S.F.), as measured in the field by the Engineer and rounded to the nearest square foot.
2. Basis of Payment: Contractor shall be paid unit price per square foot (S.F.) sodding furnished and installed. This unit price shall be payment in full for the costs of all supervision, material, equipment, labor, supplies, profit and overhead, and performing all operations as are necessary to furnish, store, install and water sod rolls as shown on the Drawings, complete as specified.

C.O.2.D Root Pruning

1. Method of Measurement: Root Pruning shall be measured on the basis of a single lump sum (L.S.) unit.
2. Basis of Payment: Contractor shall be paid a lump sum (L.S.) price for Root Pruning of existing trees impacted by excavation and grading. The lump sum price shall be payment in full for all the costs of supervision, materials, equipment, labor, supplies, profit and overhead, and performing all operations as are necessary to cleanly cut roots back to the soil line for all exposed, shredded, or torn roots of existing trees impacted by grading with proper pruning equipment, complete as specified.

Herbaceous Plan Installation:

Delete the following from Section 32 93 00 (Herbaceous Plant Installation) PART 2 PRODUCTS:

2.05 MULCH

- A. Mulch shall be Twice-Shredded Hardwood Mulch – Mn/DOT 3882.2 Type 6 and shall consist of twice-shredded raw hardwood material only.
- B. Shredded Hardwood Mulch shall be placed at the locations and depth as shown on Drawings.

Add the following to Section 32 93 00 (Herbaceous Plan Installation) ARTICLE 2.05. PRODUCTS:

2.05 MULCH

- A. Mulch shall be sourced from MYP Landscape Supply in Lake Elmo, sourced from trees, color Brown.
- B. Mulch shall be placed at the locations and depth as shown on Drawings.

Add the following to Section 32 93 00 (Herbaceous Plant Installation) PART 2 PRODUCTS:

2.07 SODDING (SALT TOLERANT)

- A. Sod shall meet the requirements of Mn/DOT 3878, Type A Lawn Sod (Salt Tolerant).

Add the following to Section 32 93 00 (Herbaceous Plant Installation) PART 3 EXECUTION:

3.10 SOD INSTALLATION

- A. Install sod in locations and depths as shown in the Drawings. Ensure clean match-lines with existing sod.
 - 1. Sod must be watered within four hours of planting.

Change in Contract Time:

None

Total Impact on Contract Price:

These changes are anticipated to *increase* the contract price by **\$27,546.25**. Target Corporation plans to reimburse RWMWD for these additional costs.

This Change Order No. 2 is:

Submitted By:  Date: 05/28/2024
(ENGINEER) Katie Turpin-Nagel, P.E., Project Engineer
Barr Engineering Company

Authorized By: _____ Date: _____
(OWNER) Val Eisele, President
Ramsey-Washington Metro Watershed District

Approved By: _____ Date: _____
(CONTRACTOR) Austin Kurilla, President
Kurilla Contracting

* * * * *

Permit Program

* * * * *

Permit Application Coversheet

Date June 05, 2024

Project Name Barge Terminal 1 Expansion

Project Number 24-32

Applicant Name Jordan Vargas, Saint Paul Port Authority

Type of Development Industrial

Property Description

This project is located off Childs Road along the Mississippi River in the City of St. Paul. The applicant is proposing to construct a new platform for barge unloading on the river. The total land disturbance area is 0.03 acre but triggers RWMWD requirements for work and fill (riprap) proposed in the 100-year floodplain of the river. A variance request for fill in the floodplain without compensatory storage is included with the permit application in addition to modeling/calculations to demonstrate no increase in the flood elevation as a result of this project, as well as a FEMA No-Rise certificate. The DNR and U.S. Army Corps of Engineers have reviewed and approved the project for impacts to the river.

Watershed District Policies or Standards Involved:

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

Water Quantity Considerations

The proposed site plan is sufficient to demonstrate no increase in the 100-year flood elevation.

Water Quality Considerations

Short Term

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

Long Term

There are no long term water quality concerns.

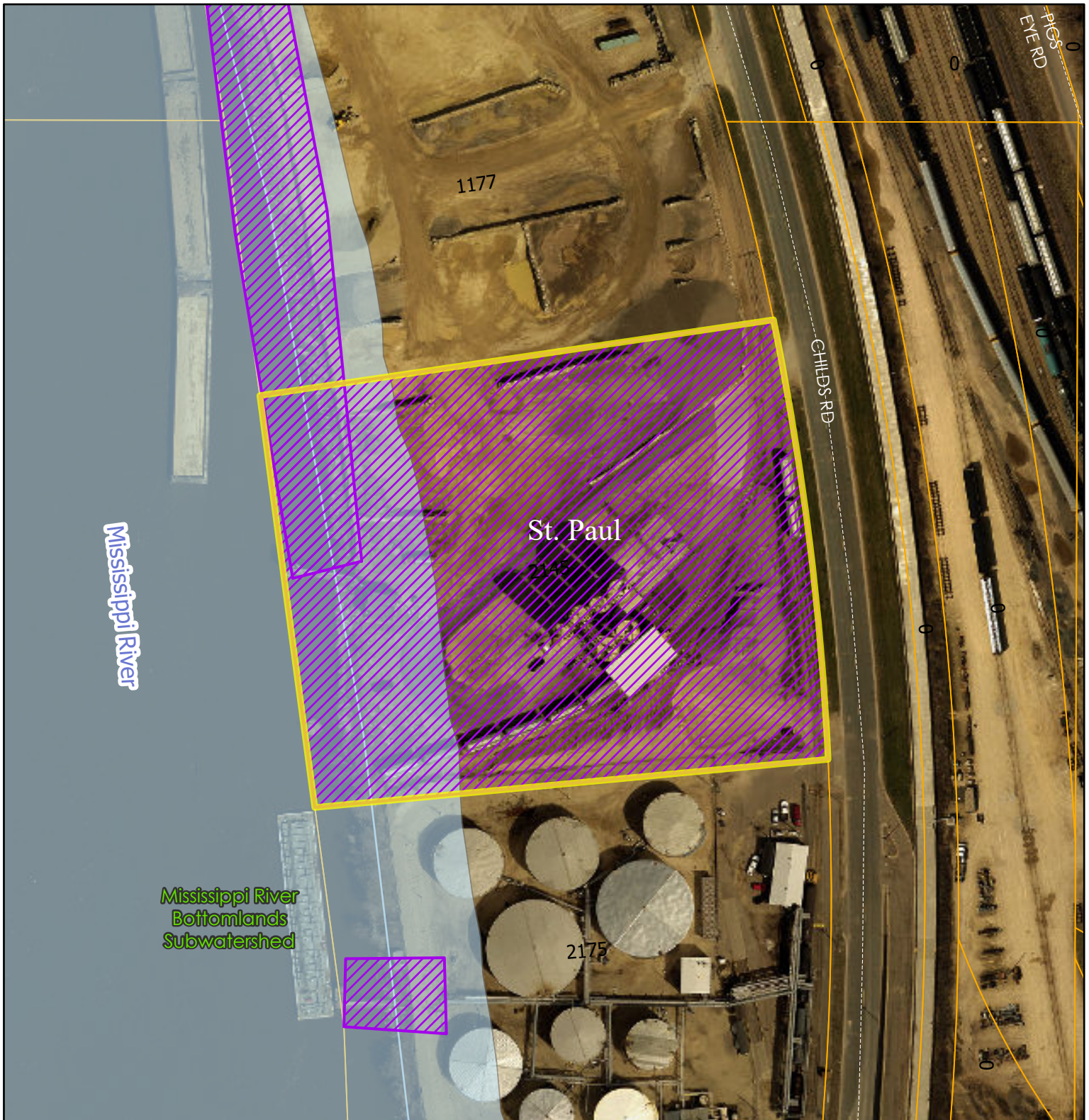
Staff Recommendation

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

Attachments:

- Project Location Map**
- Project Grading Plan**

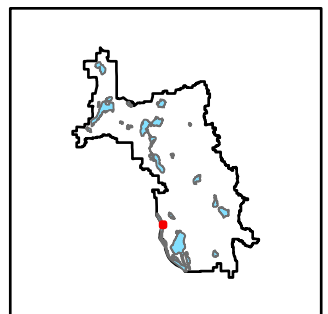
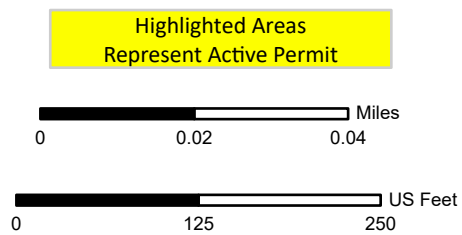
#24-32 Barge Terminal 1 Expansion



Wetlands

- Manage A
- Manage B
- Manage C
- Lake
- Sediment Pond
- Not Assessed

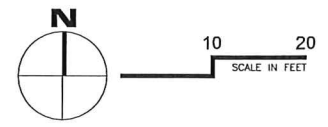
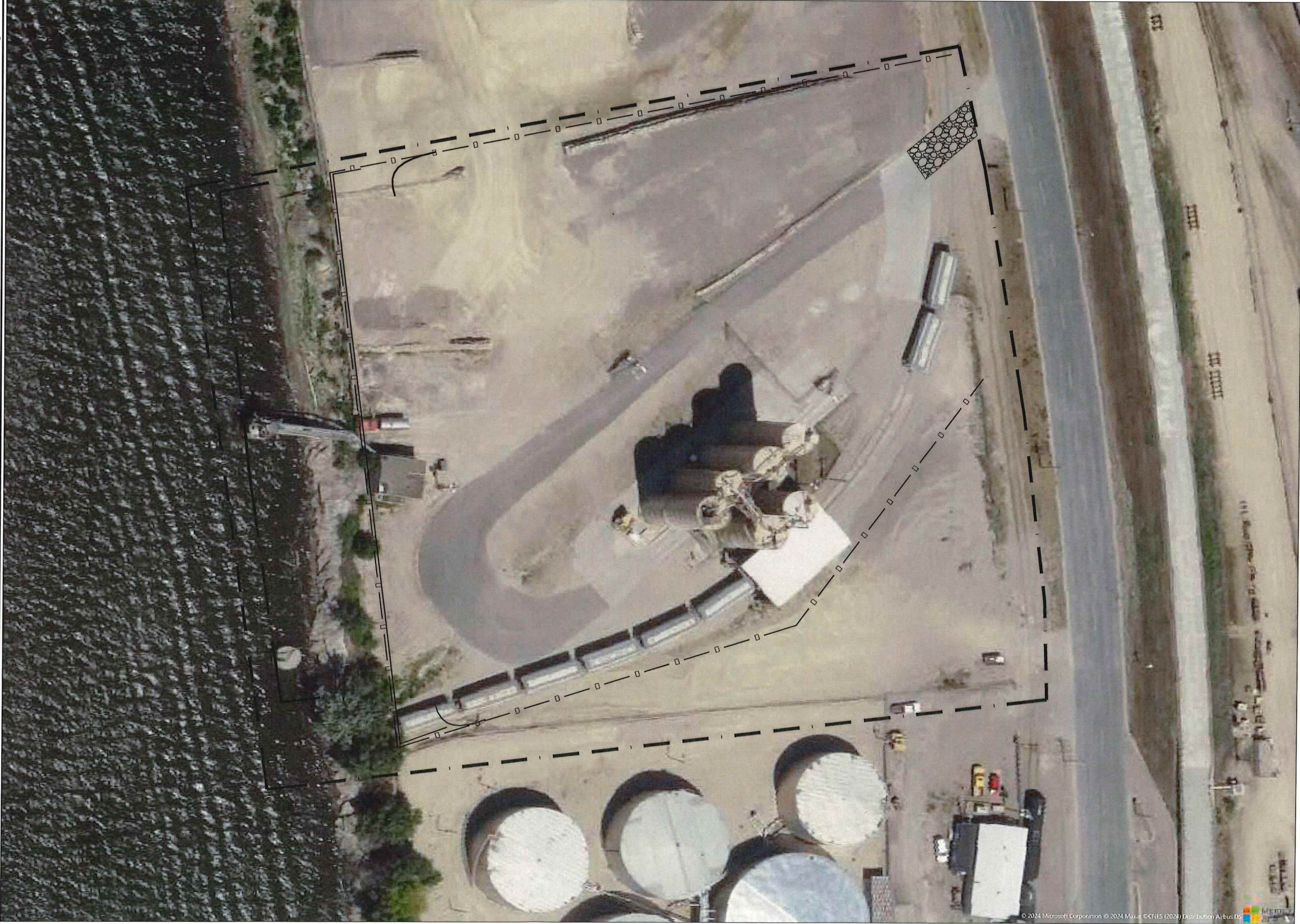
- Roads
- Permits
- Cities
- Subwatersheds
- Lakes
- Ramsey Co Parcels
- RWMWD Boundary



24-32

Special Provisions

1. The applicant shall submit contact information for the erosion control supervisor responsible for implementing the erosion control plan.
2. The applicant shall submit the final, signed plans set.



SITE LEGEND:

- PROPERTY BOUNDARY APPROXIMATE
- SILT FENCE
- BIO ROLL
- SILT CURTAIN
- ROCK ENTRANCE

GENERAL EROSION CONTROL NOTES:

1. EMPLOY SEDIMENT CONTROL PRACTICES AS NECESSARY TO MINIMIZE SEDIMENT FROM ENTERING SURFACE WATERS
2. INSTALL TEMPORARY SEDIMENT CONTROL DEVICES AT THE LOCATIONS SHOWN. PERIMETER SEDIMENT CONTROL DEVICES MUST BE IN PLACE BEFORE ANY UPGRADIENT LAND-DISTURBING ACTIVITIES BEGIN
3. RE-INSTALL ALL SEDIMENT CONTROL DEVICES THAT BEEN ADJUSTED OR REMOVED TO ACCOMMODATE SHORT-TERM ACTIVITIES SUCH AS CLEARING AND RUBBING, OR PASSAGE OF VEHICLES.
4. INSPECT THE ENTIRE CONSTRUCTION SITE AT LEAST ONCE EVERY SEVEN (7) DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES IN 24 HOURS. FOLLOWING AN INSPECTION THAT OCCURS WITHIN 24 HOURS AFTER A RAINFALL EVENT, THE NEXT INSPECTION MUST BE CONDUCTED WITHIN SEVEN (7) DAYS AFTER THE RAINFALL EVENT
5. NOTIFY MARY FITZGERALD, RAMSEY-WASHINGTON METRO WATERSHED DISTRICT, AT 651-792-7956 PRIOR TO CONSTRUCTION ACTIVITY TO SCHEDULE AN INITIAL CONTROL INSPECTION.
6. THE PROPOSED EROSION AND SEDIMENT CONTROL PRACTICES ARE THE MINIMUM. ADDITIONAL PRACTICES MAY BE REQUIRED DURING THE CONSTRUCTION PROCESS.



**PRELIMINARY
NOT FOR CONSTRUCTION**

REV. BY:	REV:	DATE:	DESCRIPTION

BARGE TERMINAL 1 EXPANSION
ST. PAUL PORT AUTHORITY
 2145 CHILDS ROAD
 ST. PAUL, MN 55106
 EROSION CONTROL PLAN

JOB No: 231128
 DATE: 05/22/2024
 DRAWN BY: TECH
 DESIGNED BY: JJV

SHEET:
E1.0

May 23, 2024

Ramsey-Washington Metro Watershed District
2665 Noel Drive
Little Canada, MN 55117

Re: Floodplain Storage Variance Memo
Barge Terminal 1 Construction
2145 Childs Road
St. Paul, MN 55106
AMI Project # 231128

To Whom it May Concern,

This variance request is being submitted to the RWMWD for the Barge Terminal 1 Construction project. The St. Paul Port Authority (SPPA) is requesting a floodplain compensatory storage variance allowing for land disturbance to occur within the 100-year floodplain without compensatory storage.

Project Information-

The waterside infrastructure currently includes one sheet pile river cell and platform that supports a non-functioning barge unloading system. The platform connects to the east bank. To the south of the river cell is wood pilings that in the past were used for barge mooring during barge unloading activities. The unloading system runs the length of the platform, onto shore, and connects to landside infrastructure. In the past, the system was used for the unloading of concrete that was stored in silos located on the landside of the site. Due to the deteriorated platform, barge unloading has not been conducted at the facility for many years. The existing conditions can be seen in Figure 1.

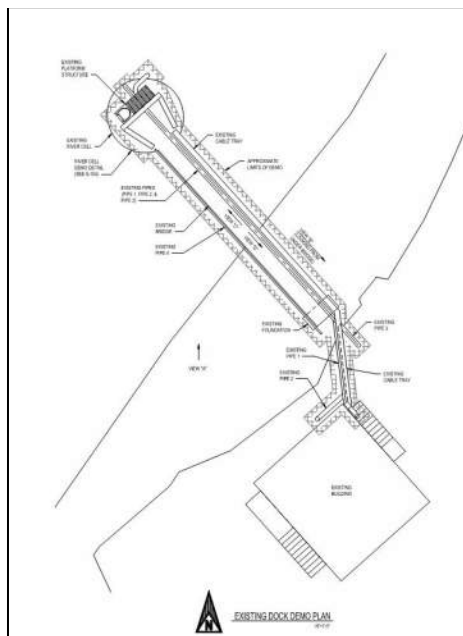


Figure 1: Existing Conditions

Purpose of the Project-

The purpose of the project is to create a safe working platform for the unloading of barges at the facility. The new pile-supported platform will support a mobile barge unloader that will be utilized to unload barges

moored at the facility. The platform will also support a new pneumatic system that will transport material unloaded from the barges to silos located on land to the east.

The other purpose of the project is to give Bulk Silos LLC the ability to bring more cement to the facility. Historically, the United States has imported a significant of its total cement consumption, ranging from a low of 10% to a peak of 30%. The long-term North American cement consumption forecast indicate that future cement imports would continue in the 10% to 30% range. By Bulk Silos Constructing this new dock and pneumatic unloading system, Bulk Silos would be able to bring in more cement to the area than they are currently able, providing a consistent supply of concrete to the area. The construction of this dock would provide additional benefits to the area, including:

- Increase in economic activity.
- Provide new direct and indirect employment opportunities.
- Reduce truck distribution and an increase in marine-based distribution, reducing truck emissions and highway congestion.

The goal of the project is to install seven 24” steel piles to support the new concrete dock platform. The existing river cell will remain in place and will be utilized as a support for the concrete dock platform. Two new dolphins will be installed to the north and south of the new platform consisting of one 48” steel pile driven into the mudline. These new dolphins will be for mooring barges while being unloaded at the terminal. The new site layout can be seen in Figure 2.

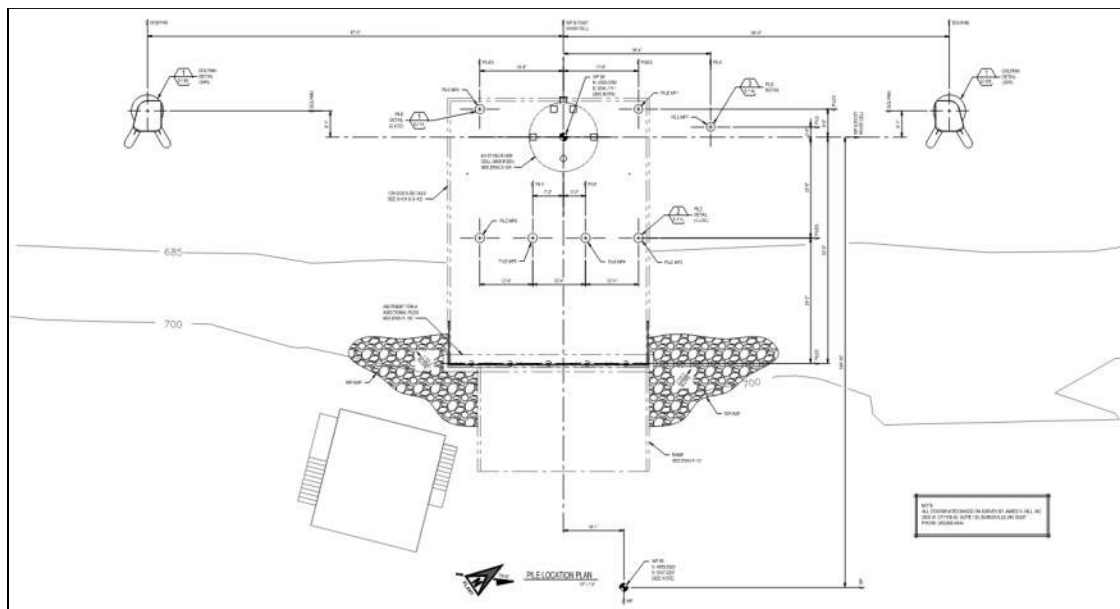


Figure 2: Site Layout

Scope of Work-

Construction of the new platform and dolphins is expected to begin in July of 2024. The exact sequencing of installation of the new platform and dolphins is to be determined by the contractor selected to conduct the work, however, the sequencing of work is believed to be as follows:

- Contractor arrives on site with crane or excavator mounted on a barge on the waterside
- The area where the new piles are to be installed is cleared
- Piles for the dock and dolphins are installed via a barge-mounted crane
- Steel support for the dock structure is installed via a barge-mounted crane
- Pre-cast concrete panels are set on the steel structure and properly fixed to the steel structure.
- Riprap installed along shoreline above OHWM
- Pneumatic systems and supporting infrastructure installed.

Work is expected to be completed in October of 2024.

Ramsey-Washington Metro Watershed District Permit

Net Fill-

A total of 180 Cubic Yards (CY) (4,860 cubic feet) of stone rip rap will be placed within the 100-Year Floodplain (attached). No material will be removed from the floodplain before the installment of the rock riprap. The location of the riprap is shown below.

Total Fill Coverage-

The RMWMD requested the thickness of the fill if the 180CY (4,860 cubic feet) of fill material was applied to the entire floodplain that was included within the width of the project site (attached). The calculated area for the floodplain is 4,686,488 square feet (sqft). AMI took the amount of material to be placed within the floodplain and divided it by the area of the floodplain to determine the thickness of the material if it was spread evenly across the floodplain.

$$4,860\text{cf} \div 4,686,488\text{sqft} = .00103 \text{ inches thick}$$

Floodplain Storage-

SPPA is requesting a variance allowing the SPPA to not provide floodplain compensatory storage to offset their fill at the project. It is believed the floodplain compensatory storage is not needed for the project for the following reason:

- The impact caused by the construction described above is minor and will not have an impact on floodplain storage. This is supported by a HEC-RAS model and No-Rise Certificate provided by LimnoTech showing that the addition of the structures to the floodplain will not raise waters or affect the floodplain elevation.

Due to the No-Rise Certificate stating that the fill to be introduced for the project will not affect the floodplain elevation, it is believed that compensatory mitigation is not required for this project.

If you have any questions or comments, please contact me by phone at (715) 718-2193 Ext 49, or via email at Jordan.vargas@amiengineers.com.

Respectfully Submitted

Jordan Vargas
Water Resource Specialist

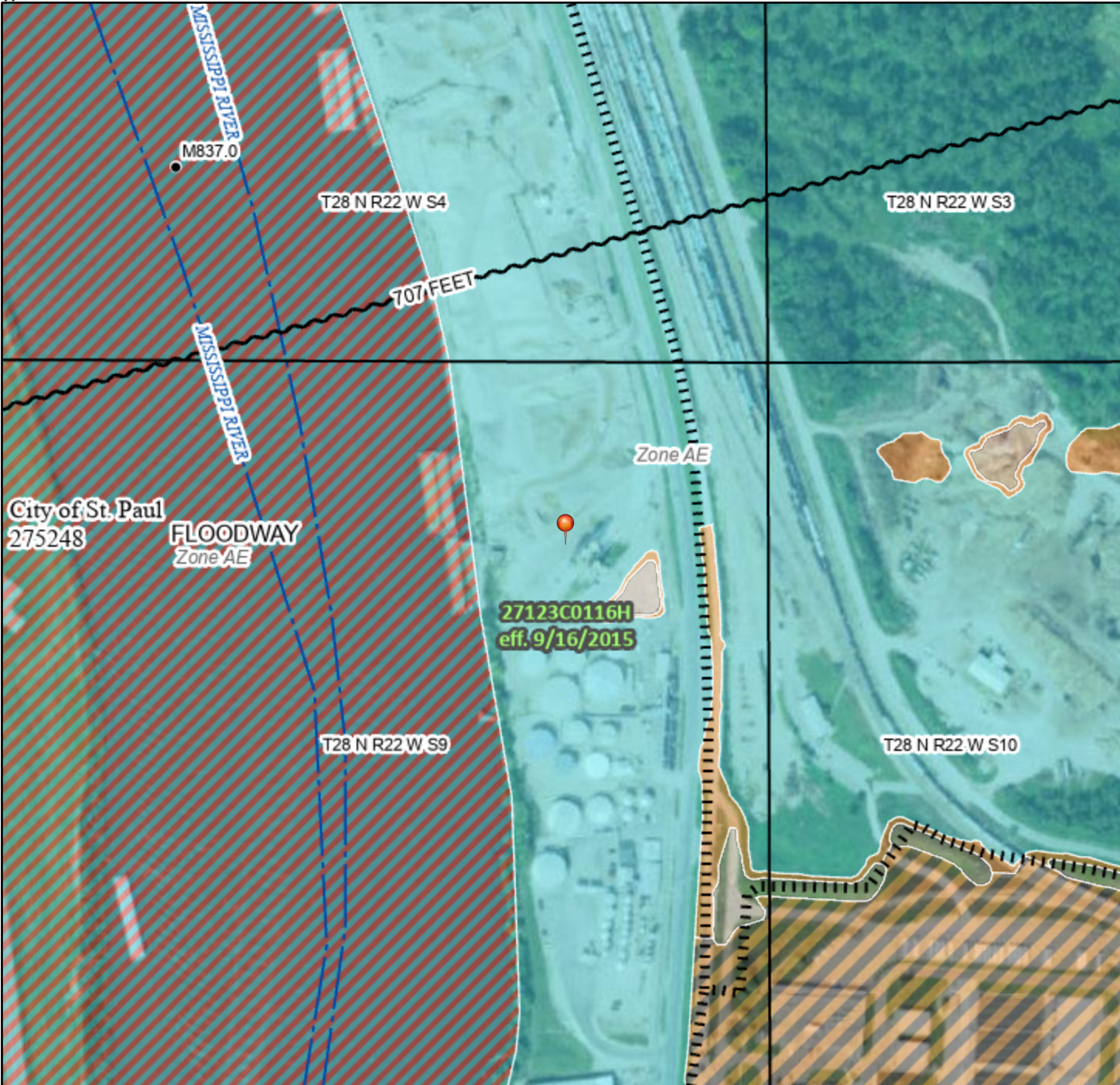
Attachments:

- FEMA Floodplain Map
- Floodplain Area
- HEC-RAS Report
- No-Rise Certification

DWL RQD O RRG EPUGDHU) 6WVH



ff1



FHOG

1) 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

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Floodplain Area



4,686,488 sqft



Memorandum

From: Craig Taylor, PE
Shanna Rucker
Hans Holmberg, PE
To: Mike D. Anderson (Cemstone)

Date: 3/14/2024
Project: Altus St. Paul Terminal Expansion
CC:

SUBJECT: Altus St. Paul Terminal Expansion - No-Rise Certificate Revised for Re-Cert

Introduction

This is a revision of the original certification document published 7/25/2019.

LimnoTech has been contracted to prepare a No-Rise certification for the St. Paul Terminal Expansion project located at 2145 Childs Road, St. Paul Minnesota. LimnoTech has prepared a MNDNR 'Minnesota "No-Rise" Certification' form for the site and a HEC-RAS model as supporting documentation.

Modeling

The supporting HEC-RAS model is based on the USACE's St. Paul Inundation Mapping model dated 2/25/2013 and received from MNDNR on 5/28/2019. The supporting HEC-RAS project file is named "St Paul Inundation Mapping" (StPaulInundationMapping.prj).

The HEC-RAS cross-sections were located by measuring from the downstream railroad bridge near Pigs Eye Island Number One and by geo-referencing an image of the RAS Mapper cross-sections. The dimensions and locations of the existing infrastructure was obtained from the Permit Package and field estimates.



Figure 1 – Image of project site and downstream railroad bridge (Image from Google)

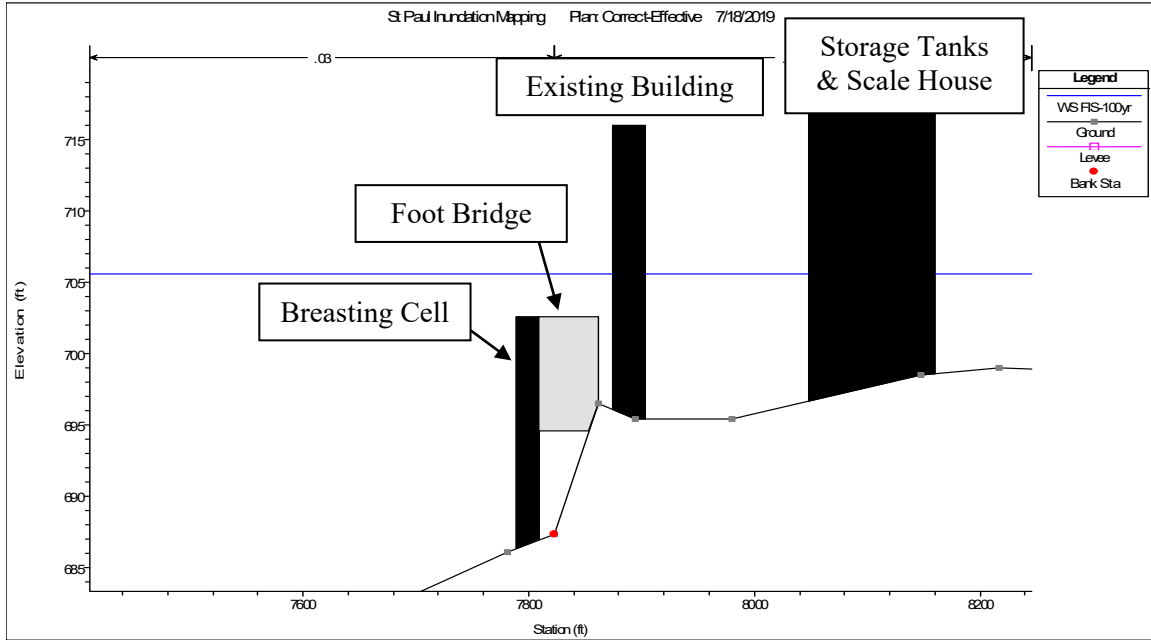
The existing conditions geometry data from the USACE model – named “25Feb2013” (StPaulInundationMapping.g07) – was updated to reflect the existing site conditions. The updated geometry file is named “Correct-Effective” (StPaulInundationMapping.g01).

The updates made to represent the existing conditions include (see Figure 2):

- Interpolated cross-section at RS 87.272
- Breasting cell
 - Blocked obstruction
- Existing building adjacent to breasting cell
 - Blocked obstruction



- Existing scale house and storage tanks
 - Blocked obstruction



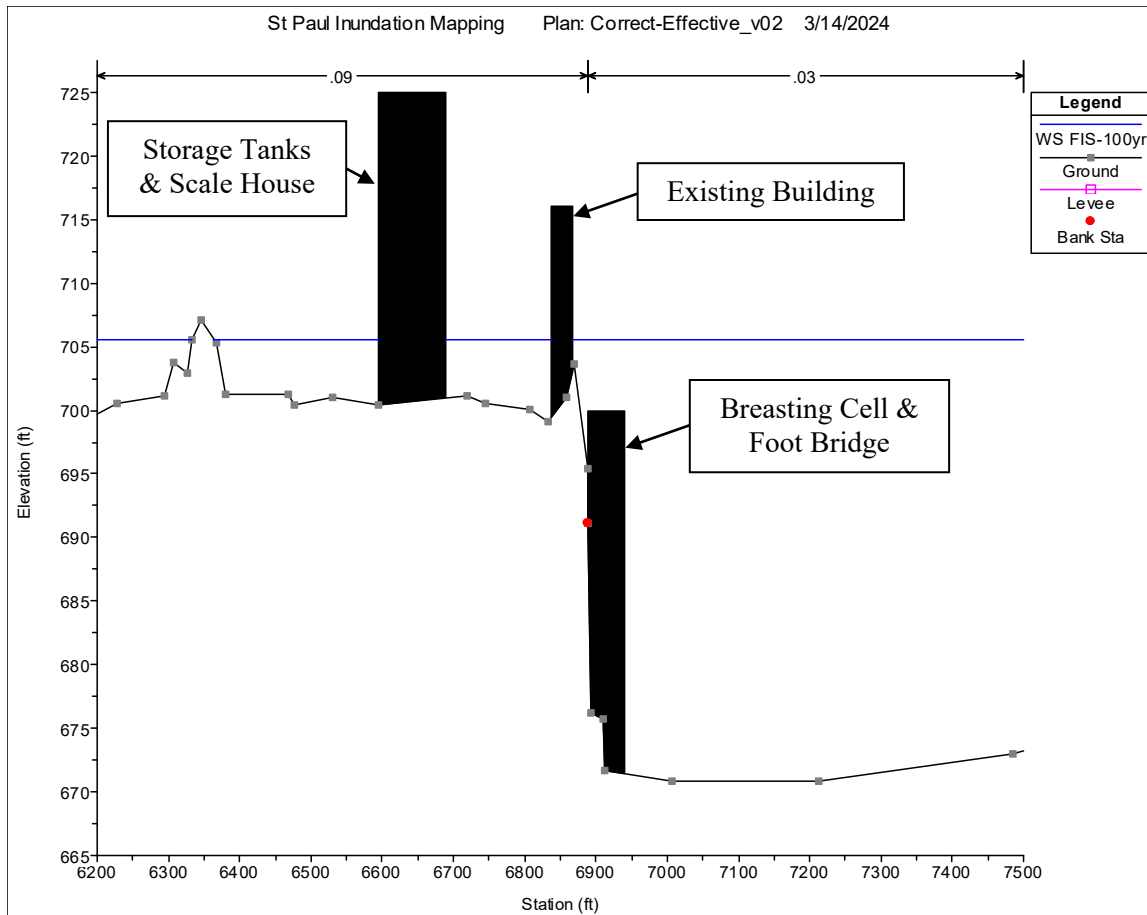


Figure 2 – Existing Conditions HEC-RAS Cross-Section of the Site.

The proposed conditions increases the size of the breasting cell and adds two new dolphins and three storage tanks. The ExistCond geometry was cloned and modified to represent proposed conditions geometry in a file named “PropCond_v02” (StPaulInundationMapping.g03). The modifications were made based on the Permit Package and are represented in the model as follows (See Figure 3):

- Breasting cell
 - Per the drawings, the proposed breasting cell will not penetrate further into the river channel, as such the existing blocked obstruction remain unchanged
- New dolphins
 - Both of the new dolphins fall within the same cross-sectional projection as the existing breasting cell, as such the obstruction that they cause is included in the breasting cell blocked obstruction.
- New storage tanks
 - The blocked obstruction for the existing storage tanks was extended by 35 feet to the west (towards the channel) to represent the additional projected area of the new storage tanks.



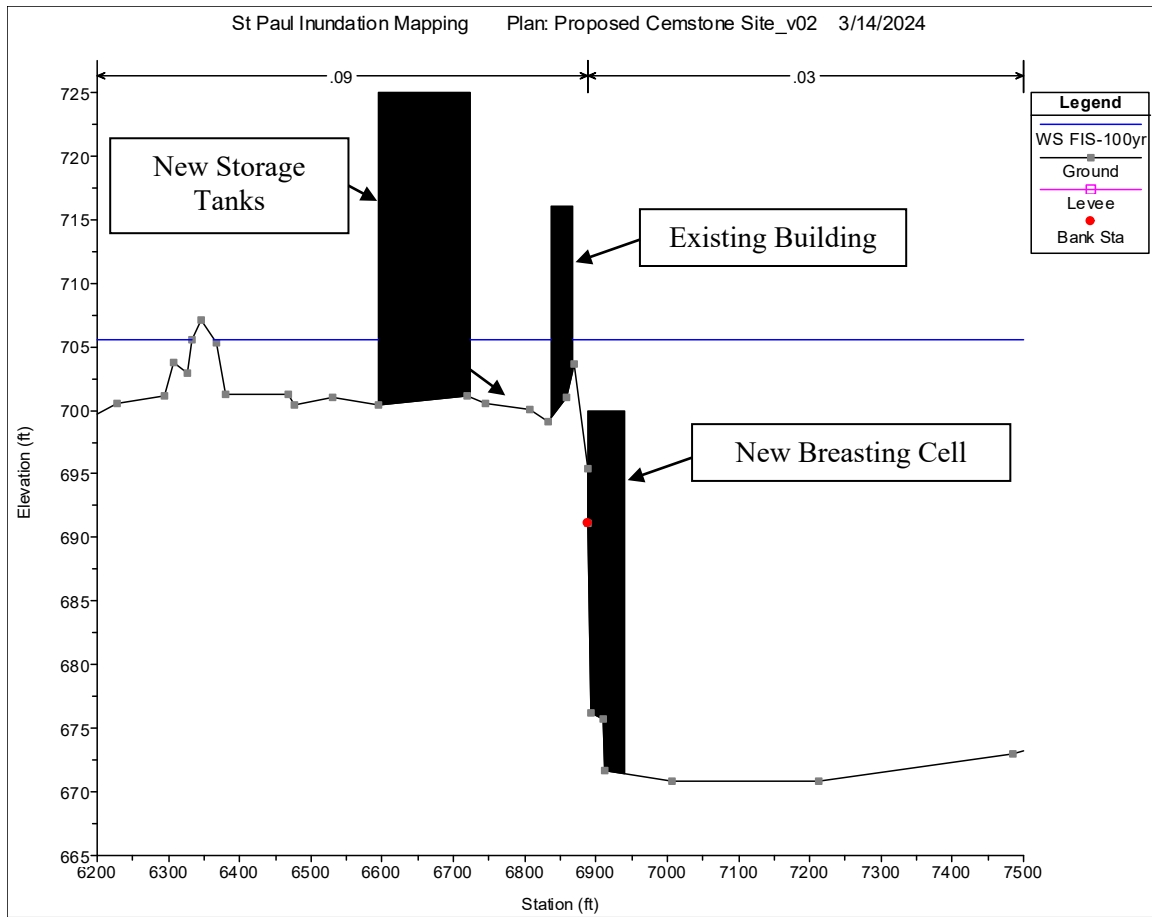


Figure 3 – Proposed Conditions HEC-RAS Cross-Section of the Site.

The steady flow files from the St. Paul Inundation Mapping model are unchanged. The “FIS-100yr” flow profile was used to evaluate the no-rise conditions.

Results

The model results showed that under the FIS 100-year flow event the water surface elevation profiles did not experience a rise at any location with the model domain. Based on these results, the No-Rise certificate has been completed.



MINNESOTA "NO-RISE" CERTIFICATION

This is to certify that I am a duly qualified professional engineer licensed to practice in the State of Minnesota.

It is further to certify that the attached technical data supports the fact that the proposal to St. Paul Terminal Development @ 2145 Childs Road, St Paul

_____ (development name / short project description)

will not impact the floodway width or 100-year flood elevation (will not raise or lower by more than 0.00 feet) on Mississippi River (Name of stream) at published sections in the Flood Insurance Study for Ramsey County (Name of Community) dated August 16, 2015 (Study Date) and will not impact the 100-year flood elevation (will not raise or lower by more than 0.00 feet) at unpublished cross-sections in the vicinity of the proposed development / project.

Attached are the following documents that support my findings:

Permit Package Document ("PermitPackage-Altus_03-2014.pdf")

HEC-RAS Model (Electronic Zip File "HEC-RAS 2145 Childs Rd")

Date: 3/14/2024

Signature: Craig Taylor

{SEAL}

Title: Professional Engineer: Minnesota PE# 52245



RAMSEY-WASHINGTON

METRO WATERSHED DISTRICT

MEMORANDUM

Date: June 5th, 2024

To: Board of Managers and Staff

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

Subject: May Enforcement Action Report

During May 2024:

Number of Violations:	18
Install/Maintain Inlet Protection	1
Install/Maintain Perimeter Control	1
Observed Sediment Discharge	4
Stabilize Exposed Soils	5
Maintain/Protect Permanent BMPs	1
Contain/Dispose of Liquid or Solid Waste	2
Install/Maintain Construction Entrance	1
Install/Maintain Up-Gradient BMPs	1
Install/Maintain Energy Dissipation	1
Improper Dewatering	1

Permit Staff- Activities, Trainings, and Coordination Meetings:

Active and inactive site monitoring, active site inspections and progress meetings, meetings with permit applicants, rule guidance assistance and misc. inquiries, Wetland Conservation Act (WCA) administration & procedures, permit submittal reviews with Barr Engineering, Inspector Intern Kendra onboarding and inspections training, initial erosion control walk-throughs at newly active sites, RWMWD/Woodbury inspections check-in, MN Brownfields Tour presentation at The Heights, Justice Alan Page School onsite meeting, Equitable Water Policy Workshop, Watershed Equity Alliance monthly meeting, underground BMP inspections with Barr, Met Council 2050 Water Policy Plan Workshop, MECA dewatering webinar, Erosion Program Advisory Board Meeting

Single Lot Residential Permits Approved by Staff:

None

Permits Closed:

None

Project Updates:

Four sites received violation notices for impacts that occurred outside of their project boundaries during this month's frequent and sometimes intense rain events. Staff were able to discover and/or respond, enforce permit requirements, and see improvements made on all four sites.

#22-35 Rosedale Estates – Roseville

Staff conducted a routine inspection on May 10th and noted that the site needed to stabilize the downstream side of their temporary sediment basin, in case it overflowed and traveled offsite through a city storm sewer structure. On May 22nd, the City of Roseville notified the site that turbid water was seen in a wetland downstream of their site. RWMWD staff visited the site on May 24th and found that no repair work had been done on the downstream side of the temporary basin since the initial report. This lack of stabilization and repeat rain events caused the offsite impact to occur. Staff communicated that repair work was needed immediately, or a stop work order would be issued to the site the morning of May 28th. A stop work order prevents a site from completing any further activity on a project until necessary repairs to erosion and sediment control items are complete.

Staff received photos of repair items completed by end of day May 24th before the holiday weekend. Additional maintenance items are in progress onsite with additional items requested by the City of Roseville who have been collaborating on enforcement with RWMWD.



This project will be closely monitored through the duration of temporary sediment basin dewatering and upcoming conversion to a permanent filtration basin.

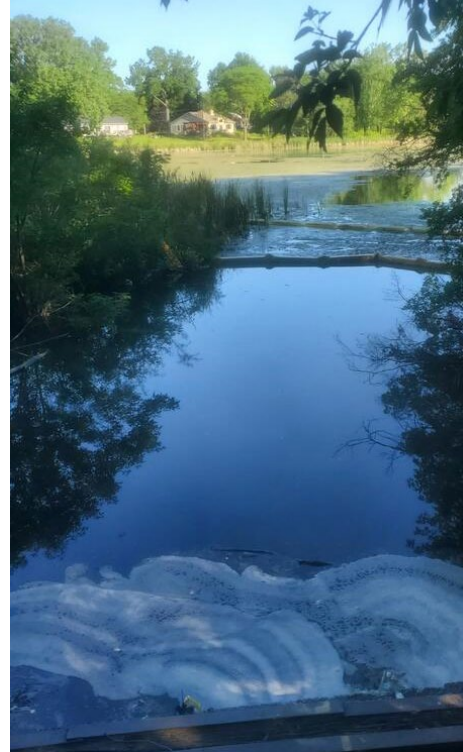
#22-23 and #23-29 Shoreview Deluxe – Shoreview

Staff conducted an initial erosion control walk-through of the site on May 9th. Staff discovered turbidity in an existing constructed stormwater pond onsite that is to remain protected from sediment through construction. Staff also observed tree removal adjacent to the pond that caused soil disturbance without the necessary perimeter control installed. Action items including perimeter control installation and soil stabilization were communicated to the project team during the onsite inspection. Staff returned to the site on May 24th and found necessary maintenance items complete but that the pond was still turbid. Staff were not able to identify the source of this impact and communicated to the site that additional investigation would be needed on their behalf to ensure the turbidity was not from their construction activity. In the meantime, staff have been looking into any other potential offsite sources that the turbidity could be from, but it's possible that consecutive rain events have stirred up the sediment already in the pond from the initial impact. Staff will continue to monitor this item on subsequent inspections. There have not been observed impacts downstream of the pond to date.



#22-33 Ramsey County WBA/Larpenteur – Maplewood, St. Paul

Staff received an email on May 22nd from a concerned resident of turbid water in a pond near Wakefield Lake. Staff identified construction projects near this location and determined that the county's road project nearby would be the likely source of construction stormwater runoff to this pond. Staff conducted an inspection on May 23rd and found that the exposed roadways were running to the lowest intersection (White Bear Avenue and Larpenteur), entering the storm sewer, and routing towards a pretreatment constructed stormwater pond at the south end of the lake. The project team indicated that it's a very difficult intersection to protect as it's prone to flooding. Water must be allowed to drain to prevent safety hazards to the public. Staff communicated that additional ditch checks, soil stabilization, and water diversion should be utilized to prevent turbid water from leaving the site. The site installed additional protections on May 24th and 25th and also installed an additional floating silt curtain in the lake itself at the receiving outfall.



#21-16 Metro Transit Gold Line BRT – Landfall, Maplewood, Oakdale, St. Paul, Woodbury

Staff completed a routine inspection of the Gold Line project on May 20th with contractors, construction consultants, and MnDOT staff. Inspections of the project typically take 4-6 hours to complete, carefully looking at many continuous miles of activity. During the inspection, staff found maintenance items needed including more frequent street sweeping, trench cut stabilization, temporary stabilization of inactive soils, perimeter control installation/maintenance, inlet protection installation and maintenance, hazardous material containment, and noxious weed control. Staff also discovered that lack of stabilization and stormwater management allowed turbid water to enter an existing constructed stormwater pond and was beginning to enter a wetland area. This section of the project was noted as high priority, and action items must be initiated immediately. The erosion control contractor called in their hydroseeding truck and began stabilizing promptly while staff were still onsite.



Program Updates:

Inspector Intern Kendra has hit the ground running with construction site inspections, closed permit BMP maintenance inspections, underground facility inspections, and more! Kendra and Mary have been doing field work together throughout the month for training and teaching purposes. Kendra is now starting to complete inspections on her own. Kendra says her favorite things to learn so far are when to know an erosion/sediment control BMP needs maintenance, as well as how underground stormwater systems function.



We are halfway through the calendar year and have already exceeded the number of permit applications reviewed and approved during all of 2023. With rain events picking back up after two years of drought and an increase in construction activity and permit applications throughout the District, it has been a very busy start to the season. We are leaning into the work, focused on providing service to permit applicants and ensuring good project outcomes. We are fortunate to have collaborative municipal partners and keen resident reporting to assist in our efforts during this rainy start to spring!

* * * * *

Stewardship Grant Program

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Stewardship Grant Program Budget Status Update

June 5, 2024

Homeowner	Coverage	Number of Projects: 18	Funds Allocated
Habitat Restoration and rain garden w/o hard surface drainage	50% Cost Share \$15,000 Max	10	\$20,188**
Rain garden w/hard surface drainage, pervious pavement, green roof	75% Cost Share \$15,000 Max	6	\$41,155**
MN Water Steward Project	100% Cost Share \$15,000 Max	0	\$0
Shoreland Restoration	100% Cost Share \$15,000 Max	2	\$13,497.40

Commercial, School, Government, Church, Associations, etc.	Coverage	Number of Projects: 15	Funds Allocated
Habitat Restoration	50% Cost Share \$15,000 Max	4	\$24,597.50***
Shoreland Restoration (below 100-year flood elevation w/actively eroding banks)	100% Cost Share \$100,000 Max	0	\$0
Priority Area Projects	100% Cost Share \$100,000 Max	4	\$281,211.50
Non-Priority Area Projects	75% Cost Share \$50,000 Max	0	\$0
Public Art (\$50,000 Reserved)	50% Cost Share \$15,000 Max/Project	2	\$5,323
Aquatic Veg Harvest/LVMP Development	50% Cost Share \$15,000 Max	0	\$0
Enhanced Street Sweeping (\$250,000 Reserved)	Varies	5	\$142,375

Maintenance	50% Cost Share \$7,500 Max for 5 Years	73	\$55,725**
Consultant Fees			\$38,142
Total Allocated			\$622,214

**includes funds to be approved at current board meeting*

*** includes staff approvals since previous board meeting*

2024 Stewardship Grant Program Budget	
Budget	\$1,250,000
Total Funds Allocated	\$622,214
Total Available Funds	\$627,786

* * * * *

Action Items

* * * * *

Request for Board Action

Board Meeting Date: June 5, 2024

Agenda Item No: 7A

Preparer: Tina Carstens, Administrator
Nicole Maras, Permit Coordinator

Item Description: Notice of the RWMWD MS4 Storm Water Pollution Prevention Program (SWPPP) Document and Opportunity for Public Comment

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 would complete an annual report form for the general public and Board to review that is specific to the previous year's MS4 activities. This annual report then gets submitted to the MPCA by June 30th of each calendar year. The MPCA has been working on a new reporting form for the last couple years, so there will be no annual report submission this year 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 website to meet the requirements for public participation/involvement. At the June 5th Board meeting, any members of the public that 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.

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

1. **MS4 Owner** (with ownership or operational responsibility, or control of the MS4)

*MS4 permittee name: 1.A. *County: 1.B.
(City, county, municipality, government agency or other entity)

*Mailing address: 1.C.

*City: 1.D. *State: 1.E. *Zip code: 1.F.

2. **MS4 General contact** (with SWPPP implementation responsibility)

*Last name: 2.A. *First name: 2.B.
(Department head, MS4 coordinator, consultant, etc.)

*Title: 2.C.

*Mailing address: 2.D.

*City: 2.E. *State: 2.F. *Zip code: 2.G.

*Phone (including area code): 2.H. *Email: 2.I.

3. **Preparer information** (complete if SWPPP application is prepared by a party other than MS4 General contact)

Last name: 3.A. First name: 3.B.
(Department head, MS4 coordinator, consultant, etc.)

Title: 3.C. Organization: 3.D.

Mailing address: 3.E.

City: 3.F. State: 3.G. Zip code: 3.H.

Phone (including area code): 3.I. Email: 3.J.

4. **Certification** (All fields are required)

*Yes - I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gathered and evaluated the information submitted.

I certify that based on my inquiry of the person, or persons, who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of civil and criminal penalties.

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 statements to be true and correct, to the best of my knowledge, and that this information can be used for the purpose of processing my application.

*Signature: 4.A. Tina Carstens
(This document has been electronically signed)

*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. *Email: 4.I.

Note: The application will not be processed without certification.

*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. Watershed District

*6. **Permit item 12.3:** Do you have any partnerships with another regulated small MS4(s) to satisfy one or more requirements of the General Permit?

- Yes
- No (skip to Q8)

7. **If yes in Q6, provide a description of the partnership(s): (Maximum 10 lines of text)**

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. Specific TMDL reduction targets
9.B. Changing local business practices
9.C. Promoting adoption of residential best management practices (BMPs)
9.D. Lake improvements through lake associations
9.E. Household chemicals
9.F. Yard waste
9.G. Construction activities
9.H. Post-construction activities
9.I. Other (describe below):
9.J.

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

- 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 17.

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. Impacts of pet waste on receiving waters
 - 16.B. Proper management of pet waste
 - 16.C. Any existing regulatory mechanism(s) for pet waste
 - 16.D. Other (describe below):
 - 16.E.

Additional information for checked items (optional):

16.F.

*17. **Permit item 16.7:** Do you have an education and outreach plan?

Yes

No (skip to Q19)

18. **If yes in Q17, which components does your education and outreach plan include?** (Check all that apply)

18.A. Target audience(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.**) If checked, specify your target audiences:

18.A.1. Residents

18.A.2. Businesses

18.A.3. Commercial facilities

18.A.4. Institutions

18.A.5. Local organizations

18.A.6. Low income residents

18.A.7. People of color

18.A.8. Non-native English speaking residents

18.A.9. Other (describe below):

18.A.10.

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 by other entities, if applicable.

18.D.1. If checked, provide any additional information (optional):

*19. **Permit item 16.8:** Do you document information relating to MCM 1?

Yes

No (skip to Q21)

20. **If 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.**)

- *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)**

MCM 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. Rain barrel distribution event
29.B. Rain garden workshop
29.C. Cleanup event
29.D. Storm drain stenciling

- 29.E. Volunteer water quality monitoring
- 29.F. Adopt a storm drain program
- 29.G. Household hazardous waste collection day
- 29.H. Other (describe below):
- 29.I.

Additional information for checked items (optional):
29.J.

- *30. **Permit item 17.7:** Do you document information relating to MCM 2?
 - Yes
 - No (skip to Q32)
- 31. **If yes in Q30, what do you document?** (Check all that apply)
 - 31.A. All relevant written input submitted by persons regarding the SWPPP
 - 31.B. 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 item 12.4:** Who is responsible for implementation of this MCM? List name(s) or position title(s):

- 33. **Provide any additional information about your current public participation/involvement program that you would like to share (optional): (Maximum 10 lines of text)**

MCM 3: Illicit Discharge Detection and Elimination (IDDE)

- *34. **Permit item 18.3:** Do you maintain a storm sewer system map?
 - Yes
 - No (skip to Q36)
- 35. **If yes in Q34, which of the following does your storm sewer map include?** (Check all that apply)
 - 35.A. All pipes 12 inches or greater in diameter, including stormwater flow direction in those pipes
 - 35.B. Outfalls, including a unique identification (ID) number, and an associated geographic coordinate
 - 35.C. Structural stormwater BMPs that are part of your small MS4
 - 35.D. All receiving waters

*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. Contract language
- 37.B. Ordinance
- 37.C. Permits
- 37.D. Standards
- 37.E. Written policies
- 37.F. Operational plans
- 37.G. Legal agreements
- 37.H. Other mechanism(s) (describe below):
- 37.I.

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:

If you represent a **city, township, or county** please answer question 39. **If you do not represent a city, township, or county skip to question 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

- *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. Videos
48.B. In-person presentations
48.C. Webinars
48.D. Training documents
48.E. Emails
48.F. Other (describe below):
48.G.
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

- *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

- *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. Verbal warning
58.B. Notice of violation
58.C. Fine
58.D. Criminal action
58.E. Civil penalty
58.F. Other (describe below):
58.G.
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):

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)**

MCM 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. Contract language
69.B. Ordinance
69.C. Permits
69.D. Standards
69.E. Written policies
69.F. Operational plans
69.G. Legal agreements
69.H. Other mechanism(s) (describe below):
69.I.
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.

- 72.A.4. For Public Waters that the Minnesota Department of Natural Resources (DNR) has promulgated “work in 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. Sediment 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

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 channels, 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 manner 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 sediment control system for filtration or settlement of the floc prior to discharge.

72.C. Dewatering and basin draining:

- 72.C.1. Owner(s)/operator(s) must discharge turbid or sediment-laden waters related to dewatering or basin draining (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 basin 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.
- 72.C.2. If owner(s)/operator(s) must discharge water that contains oil or grease, owner(s)/operator(s) must use an oil-water separator or suitable filtration device (e.g. cartridge filters, absorbents pads) prior to discharge.
- 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.
- 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. Inspection and maintenance:

- 72.D.1. Owner(s)/operator(s) must ensure that a trained person will inspect the entire construction site at least once 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 stabilization 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.
- 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.
- 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 is 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

- 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 Owner(s)/operator(s) must record all inspections and maintenance activities within 24 hours of being conducted 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) 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. Inspection and maintenance:

- 72.E.1. Owner(s)/operator(s) must place building products and landscape materials under cover (e.g., plastic sheeting or temporary roofs) or protect them by similarly effective means designed to minimize contact with stormwater. Owner(s)/operator(s) are not required to cover or protect products which are either not a source of contamination to stormwater or are designed to be exposed to stormwater.
- 72.E.2. Owner(s)/operator(s) must place pesticides, fertilizers and treatment chemicals under cover (e.g., plastic sheeting or temporary roofs) or protect them by similarly effective means designed to minimize contact with stormwater.
- 72.E.3. Owner(s)/operator(s) must store hazardous materials and toxic waste, (including oil, diesel fuel, gasoline, hydraulic fluids, paint solvents, petroleum-based products, wood preservatives, additives, curing compounds, and acids) in sealed containers to prevent spills, leaks or other discharge. Storage and disposal of hazardous waste materials must be in compliance with Minn. R. ch. 7045 including secondary containment as applicable.
- 72.E.4. Owner(s)/operator(s) must properly store, collect, and dispose of solid waste in compliance with Minn. R. ch. 7035.
- 72.E.5. Owner(s)/operator(s) must position portable toilets so they are secure and will not tip or be knocked over. Owner(s)/operator(s) must dispose of sanitary waste in accordance with Minn. R. ch. 7041.
- 72.E.6. Owner(s)/operator(s) must 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. Owner(s)/operator(s) must ensure adequate supplies are available at all times to clean up discharged materials and that an appropriate disposal method is available for recovered spilled materials. Owner(s)/operator(s) must report and clean up spills immediately as required by Minn. Stat. § 115.061, using dry clean up measures where possible.
- 72.E.7. Owner(s)/operator(s) must limit vehicle exterior washing and equipment to a defined area of the site. Owner(s)/operator(s) must contain runoff from the washing area in a sediment basin or other similarly effective controls and must dispose of waste from the washing activity properly. Owner(s)/operator(s) must properly use and store soaps, detergents, or solvents.
- 72.E.8. Owner(s)/operator(s) must provide effective containment for all liquid and solid wastes generated by washout operations (e.g., concrete, stucco, paint, form release oils, curing compounds and other construction materials) related to the construction activity. Owner(s)/operator(s) must prevent liquid and solid washout wastes from contacting the ground and must design the containment so it does not result in runoff from the washout operations or areas. Owner(s)/operator(s) must properly dispose of liquid and solid wastes in compliance with Minn. R. ch. 7035. Owner(s)/operator(s) must install a sign indicating the location of the washout facility.

72.F. Temporary sediment basins:

- 72.F.1. Where ten (10) or more acres of disturbed soil drain to a common location, owner(s)/operator(s) must provide a temporary sediment basin to provide treatment of the runoff before it leaves the construction site or enters surface waters. Owner(s)/operator(s) may convert a temporary sediment basin to a permanent basin after construction is complete. The temporary basin is no longer required when permanent cover has reduced the acreage of disturbed soil to less than ten (10) acres draining to a common location.
- 72.F.2. The temporary basin must provide live storage for a calculated volume of runoff from a two (2)-year, 24-hour storm from each acre drained to the basin or 1,800 cubic feet of live storage per acre drained, whichever is greater.

- 72.F.3. Where owner(s)/operator(s) have not calculated the two (2)-year, 24-hour storm runoff amount, the temporary 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. Termination 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.
- 72.G.4. 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.
- 72.G.6. 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. If applicable, 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.

*73. **Permit item 19.5:** Does your regulatory mechanism(s) require that owners and operators of construction activity develop site plans that must be submitted to you for review and confirmation that regulatory mechanism(s) requirements have been met, prior to the start of construction activity?

- Yes
- No

*74. **Permit item 19.6:** Do you have written procedures for site plan reviews to ensure compliance with requirements of the 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 Q76)

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
- No (Skip to Q79)
78. **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.

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. Stabilization of exposed soils (including stockpiles)

80.B. Stabilization of ditch and swale bottoms

80.C. Sediment control BMPs on all downgradient perimeters of the project and upgradient of buffer zones

80.D. Storm drain inlet protection

80.E. Energy dissipation at pipe outlets

80.F. Vehicle tracking BMPs

80.G. Preservation of a 50 foot natural buffer or redundant sediment controls where stormwater flows to a surface water within 50 feet of disturbed soils

80.H. Owner/operator of construction activity self-inspection records

80.I. Containment for all liquid and solid wastes generated by washout operations (e.g., concrete, stucco, paint, form release oils, curing compounds, and other construction materials)

80.J. BMPs maintained and functional

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)

85. **If yes in Q84, 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
86. **If yes in Q84, what training do your staff who perform site inspections receive? (Check all that apply)**
- 86.A. University of Minnesota Erosion and Stormwater Management Certification Program
86.B. Qualified Compliance Inspector of Stormwater
86.C. Minnesota Laborers Training Center Stormwater Pollution Prevention Plan Installer or Supervisor
86.D. Minnesota Utility Contractors Association Erosion Control Training
86.E. Certified Professional in Erosion and Sediment Control
86.F. Certified Professional in Stormwater Quality
86.G. Certified Erosion Sediment and Storm Water Inspector
86.H. Other (describe below):
86.I.
- *87. **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)
88. **If yes in Q87, which enforcement tools are included in your ERPs? (Check all that apply)**
- 88.A. Verbal warning
88.B. Notice of violation
88.C. Administrative order
88.D. Stop work order
88.E. Fine
88.F. Forfeit of security bond money
88.G. Withholding of certificate of occupancy
88.H. Criminal action
88.I. Civil penalty
88.J. Other (describe below):
88.K.
- *89. **Please specify name or position title of responsible person(s) for conducting enforcement:**
- *90. **Permit item 19.13: Do you document each site plan review you conduct?**
- Yes
 No (Skip to Q92)
91. **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.)

- *92. **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)
 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. Date(s) violation(s) resolved
- *96. **Permit item 12.4: Who is responsible for implementation of this MCM? List name(s) or position title(s):**
97. **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)**

MCM 5: Post-construction stormwater management

- *98. **Permit item 20.3:** Do you have a post-construction stormwater management regulatory mechanism(s)?
 Yes
 No (skip to Q102)
99. **If yes in Q98, what does your regulatory mechanism(s) consist of?** (Check all that apply)
 99.A. Contract language
 99.B. Ordinance
 99.C. Permits
 99.D. Standards
 99.E. Written policies
 99.F. Operational plans
 99.G. Legal agreements
 99.H. Other mechanism(s) (describe below):
 99.I.

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:**
101. **If yes in Q98, which of the following requirements are incorporated into your regulatory mechanism? (Check all that apply)**
- 101.A. **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. **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:
- 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.)**
 - 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.)**
 - 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.)**
 - 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.
 - 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.)**
 - 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.)**
 - 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.)**
 - 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.)**
 - 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.)**

- 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.
- 101.G. **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.
- 101.H. **Permit item 20.11:** You must ensure off-site treatment project areas are selected in the following order of preference:
- a. Locations that yield benefits to the same receiving water that receives runoff from the original construction activity
 - 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
- 101.I. **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 BMP. Routine maintenance of structural stormwater BMPs already required by this permit cannot be used to meet this requirement.
- 101.J. **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.
- 101.K. **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.
- 101.L. **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.**)
- a. The structural stormwater BMP includes an executed legal mechanism(s) between you and owners responsible for the long-term maintenance, as required in item 20.15; and
 - b. The structural stormwater BMP was implemented on or after August 1, 2013.
 - Yes
 - No
- *103. **Permit item 20.17:** Do you to have written procedures for site plan reviews to ensure compliance with requirements of your 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)
105. **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. **Permit item 20.19:** Do you maintain written ERPs to compel compliance with your regulatory mechanism(s) required in Section 20? (**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 Q108)

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.

*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. **(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.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. Corrective action(s) issued
- 114.E. Referrals to other regulatory organizations
- 114.F. The date(s) violation(s) are resolved

*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)**

MCM 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. Composting

118.B. Equipment storage and maintenance

118.C. Hazardous waste disposal

118.D. Hazardous waste handling and transfer

118.E. Landfill(s)

118.F. Solid waste handling and transfer

118.G. Park(s)

118.H. Pesticide storage

118.I. Public parking lot(s)

118.J. Public golf course(s)

118.K. Public swimming pool(s)

118.L. Public works yard(s)

118.M. Recycling

118.N. Salt storage

118.O. Snow storage

118.P. Vehicle storage and maintenance (e.g., fueling and washing) yard(s)

118.Q. Materials storage yard(s)

118.R. Other (describe below):

118.S.

*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)

120. **If yes in Q119, provide additional information on the BMPs you implement to address stormwater discharges from 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

- *128. **Permit item 21.9:** Do you inspect structural stormwater BMPs (excluding stormwater ponds, which are under a separate 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.

- 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)

Discharges to Impaired Waters with an EPA-Approved TMDL that Includes an Applicable Waste Load Allocation (WLA)

To determine if you have an applicable WLA(s), please reference the MPCA's MS4 Permit TMDL Application Form webpage at https://stormwater.pca.state.mn.us/index.php?title=Guidance_for_completing_the_MS4_Permit_TMDL_Application_Form.

*141. **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. **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)

143. **If yes in Q142, do you maintain a written plan to prioritize reduction activities to address the areas and sources identified in the inventory? The written plan must include BMPs you will implement over 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
 No (Skip to Q145)

144. **If yes in Q143, which of the following are included in your written plan?** (Check all that apply)

- 144.A. Water quality monitoring to determine areas of high bacteria loading.
144.B. Installation of pet waste pick-up bags in parks and open spaces.
144.C. Elimination of over-spray irrigation at permittee land owned areas.

- 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. Operational changes such as pre-wetting, pre-treating the salt stockpile, increasing plowing prior to deicing, monitoring of road surface temperature, etc.
- 149.B. Implementation of new or modified equipment providing pre-wetting, or other capability for minimizing salt use.
- 149.C. Regular calibration of equipment.
- 149.D. Optimizing mechanical removal to reduce use of deicers.
- 149.E. Designation of no salt and/or low salt zones.
- 149.F. Other (describe below):
- 149.G.

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)

152. If yes in Q151, do you maintain a written plan that identifies specific activities you will implement to reduce thermal loading 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
- No (Skip to Q154)

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: _____
- 157.B. Longitude: _____

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):** _____

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

159.B. For each month, provide the number of days the system was operational:

- 159.B.1. January: _____
- 159.B.2. February: _____
- 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.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. Alum
- 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:

160. 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 must not be treated by this system.
- 160.B. Your treatment system is contained within the conveyances and structural stormwater BMPs of the MS4. The 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 approval from the MPCA.
- 160.D. In-lake phosphorus treatment activities are not authorized.

161. Permit item 23.3: Which of the following design parameters does your treatment system include? (Check all that apply)

- 161.A. The treatment system is constructed in a manner that diverts the stormwater flow to be treated from the main 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 provided (minimum of eight feet wide) for the removal of accumulated sediment.

162. Permit item 23.5: Do you have a designated person perform visual monitoring of the treatment system for proper performance at least once every seven (7) days, and within 24 hours after a rainfall event greater than 2.5 inches in 24 hours?

- Yes
- No (Skip to Q164)

163. If yes in Q162, please list the name(s) of the individual(s) or position title(s):

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
 No
165. **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
 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 ($\mu\text{g/L}$), 10 $\mu\text{g/L}$, and 20 $\mu\text{g/L}$, 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. Specific parameters for determining when the solids must be removed from the system and how the solids will be handled and disposed of.
- 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/>.)

Additional information

174. Provide any additional information about your current Stormwater Pollution Prevention Program (SWPPP) that you would like to share (optional): **(Maximum 30 lines of text)**

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/.](https://get.adobe.com/reader/))

Request for Board Action

Board Meeting Date: June 5, 2024

Agenda Item No: 7B

Preparer: Tina Carstens, Administrator

Item Description: County Road C Culvert Flood Risk Reduction Project Bid Award

Background:

At the April 2024 meeting, the board was presented with the plans and cost estimate for the County Road C Culvert replacement project. The board directed staff to finalize the design and bidding documents and solicit bid proposals. The engineer’s opinion of probable cost for this project was \$586,284.

The project is planned through our Flood Risk Reduction program and will be funded with that project fund. Ramsey County has agreed to reimburse the District for 100% of the costs to replace the county owned culvert within the project limits, and for associated roadway and utility improvements required to facilitate the culvert replacement.

The bid opening is scheduled for Monday, June 3. The results will be brought to the board meeting on June 5th where the board will consider awarding the project to the lowest responsive and responsible bidder.

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 the board award the project to the recommended responsive and responsible bidder.

Financial Implications:

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

Board Action Requested:

Accept the bids and award the County Road C Culvert Flood Risk Reduction project to _____. Direct staff to prepare and mail the notice of award and prepare the agreements, and review the required submittals.

Request for Board Action

Board Meeting Date: June 5, 2024

Agenda Item No: 7C

Preparer: Tina Carstens, Administrator

Item Description: Review and Accept the 2023 District Annual Financial Audit

Background:

The District is required by law to complete and file an annual audit of the District's financial records. The final audit report is [posted to our website and can be found here](#).

The auditor has also prepared an audit management letter that serves as an easier way to understand a summary of the audit. That audit management letter is attached.

The audit will be sent to the State Auditor as well as the Board of Water and Soil Resources as required.

The audit gives the District an unmodified clean opinion. This is the highest opinion that can be given. There were also no internal control findings or compliance finding.

This audit report is complete and for your information.

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 Item: Maintain financial solvency and accountability.

Staff Recommendation:

Accept the 2023 Annual Audit Report.

Financial Implications:

None.

Board Action Requested:

Accept the 2023 Annual Audit Report.

**RAMSEY-WASHINGTON METRO
WATERSHED DISTRICT**

AUDIT MANAGEMENT LETTER

DECEMBER 31, 2023

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To the Board of Managers
Ramsey-Washington Metro Watershed District
Little Canada, Minnesota

We have completed our audit of the Ramsey-Washington Metro Watershed District (RWMWD) for the year ended December 31, 2023. In conjunction with that audit, we present this management letter on matters relating to the financial operations of RWMWD. We offer this report as an additional analytical perspective for the Board of Managers in monitoring the financial position and operations of the accounts and funds of RWMWD. This report also contains required communications to those charged with governance.

Several reports are issued in conjunction with the audit. A summary is as follows:

- Opinion on Financial Statements – unmodified (clean) opinion
- Report on Internal Control – no internal control findings
- Minnesota Legal Compliance Report – no compliance findings

Thank you for the opportunity to serve RWMWD. We are available to discuss this report with you.

Redpath and Company, LLC

REDPATH AND COMPANY, LLC
St. Paul, Minnesota

May 13, 2024

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RAMSEY-WASHINGTON METRO WATERSHED DISTRICT

Audit Management Letter

Cash and Investments

Cash and investment balances at December 31, 2023 and 2022 were as follows:

Fund	December 31,		Increase (Decrease)
	2023	2022	
General	\$4,387,700	\$3,889,781	\$497,919
Debt Service Funds:			
General Obligation Bonds	159,920	562,589	(402,669)
Capital Project Funds:			
Stormwater Impact Fund	1,408,139	363,688	1,044,451
Capital Projects CIB	8,759,840	8,888,957	(129,117)
Total	<u>\$14,715,599</u>	<u>\$13,705,015</u>	<u>\$1,010,584</u>

Investment income totaled \$670,527 for the year ended December 31, 2023 as compared to \$184,154 for the year ended December 31, 2022. As of December 31, 2023, the RWMWD's funds were earning 5.24% as compared to 3.93% as of December 31, 2022. The significant increase in investment income occurred because the full effect of rising interest rates was not felt until 2023.

Taxes Receivable

Taxes receivable at December 31, 2023 and 2022 consisted of the following:

	December 31,		Increase (Decrease)
	2023	2022	
Delinquent	\$199,326	\$96,075	\$103,251
Due from County	7,955	42,466	(34,511)
Total	<u>\$207,281</u>	<u>\$138,541</u>	<u>\$68,740</u>

RAMSEY-WASHINGTON METRO WATERSHED DISTRICT

Audit Management Letter

Delinquent taxes receivable represent the balance of property taxes levied for collection in 2017 through 2023, but which remained unpaid by the property owner as of December 31, 2023. This uncollected portion of property taxes is also classified as unavailable revenue and is not part of fund balance at year-end. Accounting standards related to revenue recognition for governments require revenue to be both measurable and available. Delinquent property taxes are not considered to be available.

Due from County taxes receivable consist of amounts collected by Washington County during November and December of 2023, but not remitted to RWMWD until January 2024. As of December 31, 2023, Ramsey County overpaid RWMWD \$57,041. As a result, this amount has been recorded as a payable to Ramsey County at year-end.

RWMWD's overall property tax collection rate was 97.8% for the year ended December 31, 2023. The following table summarizes the 2023 levy and collections:

	Ramsey & Washington Counties
Total levy (pay 2023)	<u>\$7,116,500</u>
<u>2023 collections:</u>	
July 2023 collections	3,714,509
December 2023 collections	3,295,334
January 2024 collections	<u>(49,086)</u>
Total property tax revenue - 2023	<u>\$6,960,757</u>
Collection percentage - current and delinquent	<u>97.8%</u>

RAMSEY-WASHINGTON METRO WATERSHED DISTRICT

Audit Management Letter

Fund Balance – All Funds

Fund balance represents the net current assets of each fund (i.e., cash plus receivables minus liabilities).

RWMWD's funds are all governmental type funds. Governmental type funds are accounted for using the current financial resources measurement focus. With this measurement focus, only current assets and current liabilities generally are included on the balance sheet.

At December 31, 2023 and 2022, fund balance was as follows:

Fund	December 31,		Increase (Decrease)
	2023	2022	
General	\$2,714,628	\$2,240,112	\$474,516
Debt Service Funds:			
General Obligation Bonds	435,851	562,589	(126,738)
Capital Project Funds:			
Stormwater Impact Fund	1,381,018	363,688	1,017,330
Capital Projects CIB	8,506,312	8,804,649	(298,337)
Total	<u>\$13,037,809</u>	<u>\$11,971,038</u>	<u>\$1,066,771</u>

RAMSEY-WASHINGTON METRO WATERSHED DISTRICT

Audit Management Letter

General Fund

The fund balance of the General Fund increased by \$474,516 during the year. Statement 6 of the Annual Financial Report details the General Fund budget versus actual operating results. A summary is presented below:

Budgeted change in fund balance		(\$600,000)
Actual revenue over (under) budgeted revenue:		
Property taxes	(\$81,554)	
Intergovernmental	16,020	
Investment income	169,205	
Permit escrow fees	10,047	
Refunds, reimbursements and other	46,030	
		<u>159,748</u>
Actual expenditures (over) under budget:		
Engineering	70,231	
Salaries/payroll taxes/benefits	120,579	
Project operations	148,371	
Watershed programs	315,123	
All other (net)	260,464	
		<u>914,768</u>
Net change in fund balance		<u><u>\$474,516</u></u>

For watershed programs, significant positive expenditure budget variances included project feasibility studies (\$123,740), lake studies/WRAPS/TMDL (\$134,172), and education programming (\$38,463).

RAMSEY-WASHINGTON METRO WATERSHED DISTRICT

Audit Management Letter

Intergovernmental Revenue

Intergovernmental grants and aids, and cost sharing agreement revenue (in all funds) in 2023 include the following:

WBIF Arbogast St Filtration System grant	\$140,295
Battle Creek Middle School Restoration grant	40,000
Met Council WOMP grant	11,000
No Child Left Inside grant	5,000
Other	<u>20</u>
Total intergovernmental revenue	<u><u>\$196,315</u></u>

Stormwater Impact Payments

Stormwater impact payment revenue totaled \$1,004,991 for the year ended December 31, 2023 as compared to \$49,113 for the year ended December 31, 2022.

Pension Liability

GASB Statement No. 68 requires RWMWD to report its proportionate share of PERA's net pension liability. During 2023, RWMWD's share of PERA's net pension liability decreased by \$394,414 to 833,191. RWMWD paid its required contribution of \$90,234 to the Plan, which was equal to 7.5% of eligible wages. RWMWD is not obligated to "pay off" the net pension liability.

103B Levy Authority

RWMWD levies taxes under the authority of Minnesota Statute 103B.241. As such, the General Fund is not limited by the \$250,000 tax levy authorized in Minnesota Statute 103D. RWMWD no longer employs Special Revenue Funds to account for maintenance and projects and instead levies for all non-CIB Fund projects out of the General Fund. Minnesota Statute 103B.241 Subd.1 reads in part as follows:

103B.241 LEVIES

Subdivision 1. Watershed plans and projects. Notwithstanding chapter 103D, a local government unit or watershed management organization may levy a tax to pay the increased costs of preparing a plan under sections 103B.231 and 103B.235 or for projects identified in an approved and adopted plan necessary to implement the purposes of section 103B.201. The proceeds of any tax levied under this section shall be deposited in a separate fund and expended only for the purposes authorized by this section. Watershed management organizations and local government units may accumulate the proceeds of levies as an alternative to issuing bonds to finance improvements.

RAMSEY-WASHINGTON METRO WATERSHED DISTRICT

Audit Management Letter

General Fund Balance

The fund balance of the General Fund for the past ten years is as follows:

<u>Year Ended December 31</u>	<u>Amount</u>	<u>Increase (Decrease)</u>
2023	\$2,714,628	\$474,516
2022	2,240,112	(142,668)
2021	2,382,780	(1,982,184)
2020	4,364,964	(268,203)
2019	4,633,167	168,614
2018	4,464,553	134,648
2017	4,329,905	909,343
2016	3,420,562	519,375
2015	2,901,187	689,503
2014	2,211,684	486,336

RWMWD sets the General Fund tax levy and budgets expenditures at a level consistent with its fund balance reserve policy. In 2023, the final budget reflected a decrease of \$600,000 in General Fund reserves. Actual reserves increased by \$474,516 as detailed previously. In comparison, during 2022 RWMWD budgeted to use \$1,000,000 of General Fund reserves while actual usage of reserves was \$142,668.

The RWMWD budget includes a higher level of program activity in the General Fund, and as such requires a levy. Schedules and completion of projects is variable and often results in carryover fund balances and unspent levy amounts. These program funds are generally spent in the following budget year if not spent in the current budget year. Excess budget balances are considered in the following year levy/budget process to reduce ensuing year tax levies by spending down available fund balances. Past management reports have discussed the purposes and benefits of maintaining adequate cash flow reserve balances. A summary of these purposes and benefits is as follows:

1. Cash flow reserve. RWMWD receives revenue from property taxes primarily in December and July. However, expenditures are incurred throughout the year. Timing differences in the receipt of property taxes should be compensated for with adequate operating reserves. RWMWD targets 50% of the ensuing year's expenditure budget as the end of year minimum unassigned fund balance. The unassigned balance at December 31, 2023 was \$2,703,706 or 62% of the ensuing year's expenditure budget.
2. Emergency and/or unanticipated expenditures. Operating budgets are estimates only. RWMWD requires a surplus to finance unforeseen events. One method of measuring the amount of this type of surplus is to use a percent of the annual operating budget (i.e., 10% to 15% or more, depending upon the budget philosophy).
3. Preliminary project funding. Feasibility studies of potential projects require financing. RWMWD does receive such preliminary funding for certain projects. Other minor projects may be more efficiently funded through available reserves.

RAMSEY-WASHINGTON METRO WATERSHED DISTRICT

Audit Management Letter

CIB Authority

This fund was established to account for the Capital Improvement Budget (CIB) process. A summary of financial activity of this fund from inception is presented in Exhibit 2 of the Annual Financial Report.

Under the authorities provided by State Statute 103B.241, RWMWD is authorized to levy ad valorem taxes for the purposes of financing the CIB projects. RWMWD has levied the following amounts for CIB projects over the past ten years:

<u>Collectible Year</u>	<u>CIB Levy Certified</u>
2023	\$3,390,000
2022	3,540,000
2021	3,962,337
2020	4,211,885
2019	3,754,885
2018	3,859,885
2017	3,205,383
2016	3,839,885
2015	3,513,200
2014	2,945,481

These levies have financed the CIB projects as well as debt service payments on the Certificates of Participation (paid off February 1, 2020). A summary of RWMWD's ad valorem tax levies is presented in Exhibit 1 of the Annual Financial Report. Additionally, a breakdown of the CIB Fund levy by project is presented in Exhibit 2 of the Annual Financial Report.

Long-Term Debt

As of December 31, 2023, RWMWD has the following outstanding long-term debt:

- General Obligation Minnesota Public Facilities Authority (MPFA) Loan of 2012
 - December 31, 2023 balance is \$354,000, matures in 2027
- General Obligation Drainage Bonds of 2016A
 - December 31, 2023 balance is \$2,465,000, matures in 2032

The schedules of indebtedness and deferred tax levies associated with the long-term debt are presented in Exhibits 3 and 4 of the Annual Financial Report.

RWMWD has a General Obligation Bonds debt service fund to account for activity associated with the G.O. MPFA Loan and the G.O. Drainage Bonds. Fund balance decreased from \$562,589 at December 31, 2022 to \$435,851 at December 31, 2023.

During 2019, RWMWD transferred \$863,674 of excess project funds into the General Obligation Bonds fund. During 2023, the last of these funds were used for debt service requirements in lieu of levying property taxes. During 2023, \$250,000 of contingency funds were also transferred from the Capital Projects CIB fund to meet debt service requirements through February 2025.

COMMUNICATION WITH THOSE CHARGED WITH GOVERNANCE

We have audited the financial statements of the governmental activities and each major fund of Ramsey-Washington Metro Watershed District (RWMWD) for the year ended December 31, 2023. Professional standards require that we provide you with information about our responsibilities under generally accepted auditing standards, as well as certain information related to the planned scope and timing of our audit. We have communicated such information in our letter to you dated March 11, 2024. Professional standards also require that we communicate to you the following information related to our audit.

Significant Audit Matters

Qualitative Aspects of Accounting Practices

Management is responsible for the selection and use of appropriate accounting policies. The significant accounting policies used by RWMWD are described in Note 1 to the financial statements. No new accounting policies were adopted and the application of existing policies was not changed during 2023. We noted no transactions entered into by RWMWD during the year for which there is a lack of authoritative guidance or consensus. All significant transactions have been recognized in the financial statements in the proper period.

Accounting estimates are an integral part of the financial statements prepared by management and are based on management's knowledge and experience about past and current events and assumptions about future events. Certain accounting estimates are particularly sensitive because of their significance to the financial statements and because of the possibility that future events affecting them may differ significantly from those expected.

The most sensitive estimates affecting the financial statements are estimates used to calculate the net pension liability, the pension related deferred outflows and inflows of resources and pension expense, as well as the estimated uncollectible portion of property taxes receivable. These estimates are based on actuarial studies and historical tax collection rates. We evaluated the key factors and assumptions used to develop these estimates in determining that they are reasonable in relation to the financial statements taken as a whole.

Certain financial statement disclosures are particularly sensitive because of their significance to financial statement users. Determining sensitivity is subjective, however, we believe the disclosures most likely to be considered sensitive are Note 6 – Long-Term Debt.

The financial statement disclosures are neutral, consistent and clear.

Difficulties Encountered in Performing the Audit

We encountered no difficulties in dealing with management in performing and completing our audit.

Corrected and Uncorrected Misstatements

Professional standards require us to accumulate all known and likely misstatements identified during the audit, other than those that are clearly trivial, and communicate them to the appropriate level of management. There were no uncorrected misstatements that have an effect on our opinion on the financial statements. The uncorrected misstatements or the matters underlying them could potentially cause future period financial statements to be materially misstated, even though, in our judgment, such uncorrected misstatements are immaterial to the financial statements under audit. In addition, none of the misstatements detected as a result of audit procedures and corrected by management were material, either individually or in the aggregate, to each opinion unit's financial statements as a whole.

Disagreements with Management

For purposes of this letter, a disagreement with management is a financial accounting, reporting, or auditing matter, whether or not resolved to our satisfaction, that could be significant to the financial statements or the auditor's report. We are pleased to report that no such disagreements arose during the course of our audit.

Management Representations

We have requested certain representations from management that are included in the management representation letter dated May 13, 2024.

Management Consultations with Other Independent Accountants

In some cases, management may decide to consult with other accountants about auditing and accounting matters, similar to obtaining a "second opinion" on certain situations. If a consultation involves application of an accounting principle to RWMWD's financial statements or a determination of the type of auditor's opinion that may be expressed on those statements, our professional standards require the consulting accountant to check with us to determine that the consultant has all the relevant facts. To our knowledge, there were no such consultations with other accountants.

Other Audit Findings or Issues

We generally discuss a variety of matters, including the application of accounting principles and auditing standards, with management each year prior to retention as RWMWD's auditors. However, these discussions occurred in the normal course of our professional relationship and our responses were not a condition to our retention.

Other Matters

We applied certain limited procedures to the budgetary comparison schedule and the schedules of pension information which are required supplementary information (RSI) that supplements the basic financial statements. Our procedures consisted of inquiries of management regarding the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We did not audit the RSI and do not express an opinion or provide any assurance on the RSI.

We were engaged to report on the individual fund financial statements, which accompany the financial statements but are not RSI. With respect to this supplementary information, we made certain inquiries of management and evaluated the form, content, and methods of preparing the information to determine that the information complies with accounting principles generally accepted in the United States of America, the method of preparing it has not changed from the prior period, and the information is appropriate and complete in relation to our audit of the financial statements. We compared and reconciled the supplementary information to the underlying accounting records used to prepare the financial statements or to the financial statements themselves.

We were not engaged to report on the introductory and other information sections, which accompany the financial statements but are not RSI. Such information has not been subjected to the auditing procedures applied in the audit of the basic financial statements, and accordingly, we do not express an opinion or provide any assurance on it.

Other Reports

Various reports on compliance and internal controls are contained in the Other Required Reports section of the audited financial statements document.

Restriction on Use

This information is intended solely for the information and use of the Board of Managers and management of Ramsey-Washington Metro Watershed District and is not intended to be, and should not be, used by anyone other than these specified parties.

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Request for Board Action

Board Meeting Date: June 5, 2024

Agenda Item No: 7D

Preparer: Tina Carstens, Administrator

Item Description: Beltline Mississippi River Branch Outfall 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 Beltline Mississippi River Branch Outfall Replacement project.

The engineer's opinion of probable construction cost is \$968,000. This has been budgeted for in the CIP Maintenance and Repair fund.

After approval at this meeting, the bidding process will be followed with a selection of a contractor coming to you for approval at the July board meeting.

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:

This project was budgeted for in the CIP Maintenance and Repair fund.

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: Ramsey-Washington Metro Watershed District board of managers
From: Nathan Campeau and Joe Welna (Barr Engineering Co.)
Subject: Design summary for Beltline Mississippi River Branch outfall replacement
Date: May 29, 2024
Project: 23/62/282
c: Dave Vlasin and Tina Carstens (Ramsey-Washington Metro Watershed District)

1 Introduction

This memorandum summarizes the final designs for the Beltline Mississippi River Branch outfall replacement. The Ramsey-Washington Metro Watershed District (RWMWD) owns and maintains the Beltline storm sewer interceptor, a 33,000-foot-long storm sewer tunnel that drains much of the RWMWD, including the Phalen chain of lakes. The Beltline discharges into the Mississippi River on Saint Paul Port Authority (SPPA) property that is leased to Northern Metals, near the intersection of Warner and Childs roads. In early July 2023, a sinkhole was discovered over the Beltline tunnel in Saint Paul, approximately 25 feet upstream of the outfall into the river. See figure 1-1 for the general site layout, the tunnel alignment near the outfall location, and the sinkhole location. The RWMWD inspected the Beltline tunnel in the vicinity of the sinkhole and discovered deformation and two joint separations in the sides of the nine-foot-diameter steel pipe as shown in figure 1-2.

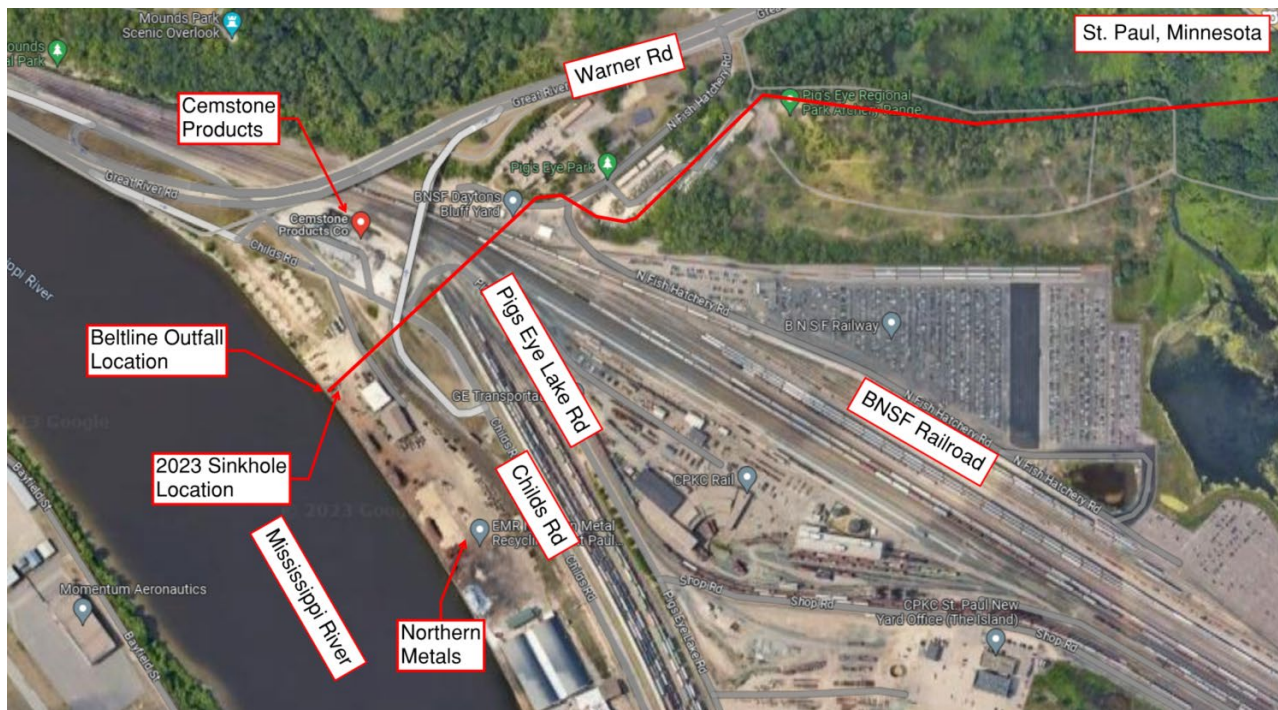


Figure 1-1 Beltline site layout near outfall



Figure 1-2 Deformation and joint separations in nine-foot-diameter steel pipe

The RWMWD requested that Barr design an emergency repair, which included the installation of steel-welded patches over the joint separations. The RWMWD retained PCiRoads to construct the repairs, which were completed over four days in mid-July (within a week of discovering the sinkhole). During construction, the RWMWD discovered additional defects within the pipe, including two penetrations in the invert (with voids measuring four to 15 inches deep below the pipe) at the connection of the pipe and the manhole, which were also repaired.

The RWMWD then asked Barr to conduct a feasibility study to evaluate options to replace the steel section of the Beltline, approximately 50 feet in length. We assessed several options, including relining the pipe and fully replacing it with different sizes and shapes of pipe. Ultimately, to maintain the hydraulic capacity of the tunnel, Barr recommended that the tunnel retain its original capacity, with the failing pipe section replaced by either a nine-foot-diameter reinforced concrete pipe or eight-foot by eight-foot rectangular concrete pipe. The RWMWD requested that we proceed with final design of one of the two alternatives and include the design of a replacement manhole structure at the upstream end of the failing section of pipe.

2 Investigations and design

In late 2023, Barr completed several investigations in support of design of the tunnel replacement and the likely replacement of the large manhole:

- **Geotechnical borings:** Two borings were completed to determine support and bedding requirements for the new pipe (figure 2-1).
- **Tieback and underground utilities investigations:** Because of the likely presence of tiebacks near the tunnel that support the adjacent river wall, Barr subcontracted a contractor to carefully excavate and locate tiebacks using an hydrovac.
- **Survey:** Barr completed a detailed survey of the ground surface and existing site features to support the final design. We also completed a drone survey to inspect the outfall and river wall to investigate portions of the outfall that are only accessible from the river or by air (figure 2-2).
- **Structural inspection:** Barr structural staff members inspected the existing tunnel connection to the river wall to support the design.



Figure 2-1 Geotechnical boring



Figure 2-2 Drone survey of the existing outfall

Barr then completed a 30-percent design and solicited feedback from the SPPA and RWMWD. We incorporated that feedback into a 90-percent design and again solicited feedback in April 2024. Based on further input, we developed a final design and again requested SPPA and RWMWD feedback in May 2024, incorporating that into the 95-percent plans. The 95-percent final design consists of demolition of the existing steel pipe and large manhole structure, installation of 51 feet of nine-foot-diameter reinforced concrete pipe, and a new cast-in-place manhole structure with improved access for future inspections.

Concurrently with the design, Barr initiated permitting with the Minnesota Department of Natural Resources for the anticipated work in Public Waters; as we expect that a contractor will need to install a sheet pile cofferdam in the river to perform the work.

3 Engineer's opinion of probable cost

The Beltline Mississippi River Branch outfall replacement plan sheets are attached to this memo. A summary of the engineer's opinion of probable cost, based on anticipated construction costs, is included in the table below.

Table 3-1 Summary of 95-percent opinion of probable costs for Mississippi River Branch outfall replacement

Engineer's opinion of probable project construction cost	Engineer's opinion of probable cost range (-10% to +15%)
\$968,000	\$872,000-\$1,114,000

The current engineer's opinion of probable cost for the project ranges from -10 percent to +15 percent. These opinions include a 5 percent contingency and reflect a 95-percent design level of accuracy. This contingency reflects uncertainty in the design elements and current bid prices.

4 Recommendations and attachments

Barr recommends seeking bids from construction contractors to ensure that this critical infrastructure continues to provide conveyance and flood mitigation for the RWMWD and its member communities.

Schedule

Pending board approval, Barr will complete the project bidding process in June 2024, with the intent to have the board review in July and award a bid. If a responsible low bidder is identified, project construction could begin as early as fall 2024.

Attachments

95-percent plans for the Beltline Mississippi River Branch outfall replacement

Table of contents for project specifications

To: Ramsey-Washington Metro Watershed District board of managers
From: Nathan Campeau and Joe Welna (Barr Engineering Co.)
Subject: Design summary for Beltline Mississippi River Branch outfall replacement
Date: May 29, 2024
Page: 6

Attachments

95-percent draft plans and specifications table of contents for Beltline Mississippi River Branch outfall replacement

CONTRACT DOCUMENTS

BELTLINE MISSISSIPPI RIVER BRANCH OUTFALL REPLACEMENT RAMSEY-WASHINGTON METRO WATERSHED DISTRICT

TABLE OF CONTENTS

Front End Documents

Division 0 - General Requirements

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00 01 10 Table of Contents	00 01 10-1
00 11 13 Advertisement for Bids	00 11 13-1
00 21 13 Instructions to Bidders	00 21 13-1
00 41 00 Bid Form	00 41 00-1
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00 51 00 Notice of Award	00 51-00-1
00 52 00 Form of Agreement	00 52 00-1
00 51 00 Notice to Proceed	00 55 00-1
00 72 00 General Conditions	00 72 00-1
00 73 00 Supplementary Conditions	00 73 00-1

Technical Specifications

Division 1 - General Requirements

01 11 00 Summary of Work	01 11 00-1
01 22 00 Unit Price Measurement and Payment	01 22 00-1
01 29 00 Payment Procedures	01 29 00-1
01 31 13 Project Coordination	01 31 13-1
01 33 00 Submittal Procedures	01 33 00-1
01 35 23 Safety	01 35 23-1
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01 52 00 Construction Facilities and Temporary Controls	01 52 00-1
01 55 26 Traffic Control	01 55 26-1
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01 77 00 Closeout Procedures	01 77 00-1

Division 3 – Concrete

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03 20 00 Concrete Reinforcement	03 20 00-1
03 30 00 Cast-in-Place Concrete	03 30 00-1

Division 31 - Earthwork

31 00 00 Earthwork	31 00 00-1
31 10 00 Site Clearing, Preparation, and Demolition	31 10 00-1
31 23 19 Dewatering and Control of Water	31 23 19-1
31 25 00 Erosion and Sedimentation Control	31 25 00-1



Division 32 – Exterior Improvements

32 93 10 Site Restoration and Rehabilitation 32 93 10-1

Division 33 – Utilities

33 40 00 Storm Utility Drainage Piping 33 40 00-1

33 49 00 Storm Drainage Structures 33 49 00-1

Drawings

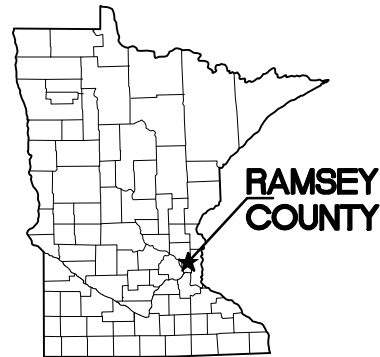
Appendices

Appendix A: Soil Testing Results

RAMSEY-WASHINGTON METRO WATERSHED DISTRICT

BELTLINE MISSISSIPPI RIVER BRANCH OUTFALL REPLACEMENT

DRAWING INDEX



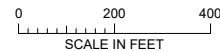
LOCATION MAP

ABBREVIATIONS:

ADD'L	ADDITIONAL
APPROX	APPROXIMATE
BOT	BOTTOM
CIP	CAST-IN-PLACE
CL	CLEARANCE
CJ	CONSTRUCTION JOINT
DIA	DIAMETER
DWL	DOWEL
DWLS	DOWELS
E.F.	EACH FACE
E	EASTING
EL	ELEVATION
EQ	EQUAL
EX	EXISTING
GSE	GROUND SURFACE ELEVATION
HSA	HOLLOW STEM AUGER
I.F.	INNER FACE
LF	LINEAR FOOT
MH	MANHOLE
MAX	MAXIMUM
MIN	MINIMUM
MNDOT	MINNESOTA DEPARTMENT OF TRANSPORTATION
N	NORTHING
O.F.	OUTER FACE
OC	ON CENTER
OHWL	ORDINARY HIGH WATER LEVEL
PVC	POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
SPPA	SAINT PAUL PORT AUTHORITY
SP	SPACED
STA	STATION
STD	STANDARD
SSP	STEEL SHEET PILE
TBD	TO BE DETERMINED
T&B	TOP AND BOTTOM
T.O.	TOP OF
TYP	TYPICAL
WSE	WATER SURFACE ELEVATION
W/	WITH



VICINITY MAP



NOTE: 2019-08-29 NEARMAP ORTHOGRAPHIC IMAGE SHOWN (NEED TO UPDATE)

PROJECT COORDINATE SYSTEM

HORIZONTAL: MNDOT RAMSEY COUNTY, US FOOT, NAD83 DATUM
 VERTICAL: NAVD88 DATUM

CONTACTS

BARR ENGINEERING CO.
 JOSEPH WELNA, PE
 PROJECT MANAGER
 PHONE: 612-508-1032
 EMAIL: JWELNA@BARR.COM

SAINT PAUL PORT AUTHORITY - LAND OWNER
 SARAH ILLI
 PHONE: 651-204-6222
 EMAIL: SMI@SPPA.COM

RAMSEY WASHINGTON METRO WATERSHED DISTRICT
 TINA CARSTENS
 ADMINISTRATOR
 PHONE: 651-792-7960
 EMAIL: TINA.CARSTENS@RWMWD.ORG

EMR METAL RECYCLING - SITE TENANT
 JEREMY MILLS
 SITE MANAGER
 PHONE: 612-719-5145
 EMAIL: JEREMY.MILLS@EMRGROUP.COM

GENERAL NOTES:

- NOTIFY DAVE VLASIN, RAMSEY WASHINGTON METRO WATERSHED DISTRICT, PRIOR TO CONSTRUCTION TO INSPECT EROSION/SEDIMENT CONTROL PRACTICES.
- SPECIFIED EROSION/SEDIMENT CONTROL PRACTICES SHOWN ARE MINIMUM. ADDITIONAL PRACTICES MAY BE REQUIRED DURING CONSTRUCTION.
- CONTRACTOR RESPONSIBLE FOR LOCATING AND FIELD VERIFYING ALL UTILITIES.

95% DRAFT
 FOR REVIEW



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

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.

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	
SIGNATURE	
DATE	LICENSE #

CLIENT	02/09/24	04/17/24	05/17/24	05/29/24						
BID										
CONSTRUCTION										
RELEASED TO/FOR	A	B	C	D	0	1	2			
DATE RELEASED										

BARR Project Office:
 BARR ENGINEERING CO.
 4300 MARKETPOINTE DRIVE
 Suite 200
 MINNEAPOLIS, MN 55435
 Corporate Headquarters:
 Minneapolis, Minnesota
 Ph: 1-800-632-2277
 Fax: (952) 832-2601
 www.barr.com

Scale: AS SHOWN
 Date: 01/03/2024
 Drawn: ADB2
 Checked: GWB
 Designed: JAW2
 Approved: JAW2

RAMSEY-WASHINGTON METRO WATERSHED DISTRICT

BELTLINE MISSISSIPPI RIVER BRANCH
 OUTFALL REPLACEMENT

COVER SHEET, LOCATIONS MAP, AND
 DRAWING INDEX

BARR PROJECT No. 23620282.40	
CLIENT PROJECT No. -	
DWG. No. G-01	REV. No. D

CADD USER: Aabc D. Bitterman FILE: M:\DESIGN\23620282.40\23620282-40_G-01_TITLE SHEET.DWG PLOT SCALE: 1/2"=1' PLOT DATE: 5/28/2024 3:48 PM
 J:\Users\j.draughn\My Documents\23620282.40\23620282-40\23620282-40_G-01_Cover.dwg Plot on 05/28/2024 12:12:25

5.0 PERMANENT STORMWATER MANAGEMENT SYSTEM (NOT REQUIRED):

A PERMANENT STORMWATER MANAGEMENT SYSTEM IS REQUIRED PER THE CSW PERMIT 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.

5.1 A PERMANENT STORMWATER TREATMENT SYSTEM IS NOT REQUIRED.

5.2 THIS IS NOT A LINEAR PROJECT WITH LACK OF RIGHT OR WAY.

5.3 THIS PROJECT DOES NOT DISCHARGE TO A TROUT STREAM (OR A TRIBUTARY TO A TROUT STREAM).

6.0 INSPECTION AND MAINTENANCE ACTIVITIES:

6.1 FREQUENCY OF INSPECTIONS: AN INSPECTOR WILL ROUTINELY INSPECT THE ENTIRE CONSTRUCTION SITE.

- 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.

6.2 INSPECTION REQUIREMENTS: EACH CONSTRUCTION STORMWATER SITE INSPECTION WILL INCLUDE INSPECTION OF THE FOLLOWING AREAS:

- 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

6.3 MAINTENANCE REQUIREMENTS: MAINTENANCE OF THE FOLLOWING AREAS AND BMPS WILL BE PERFORMED AS FOLLOWS:

- 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.

6.4 RECORD KEEPING REQUIREMENTS:

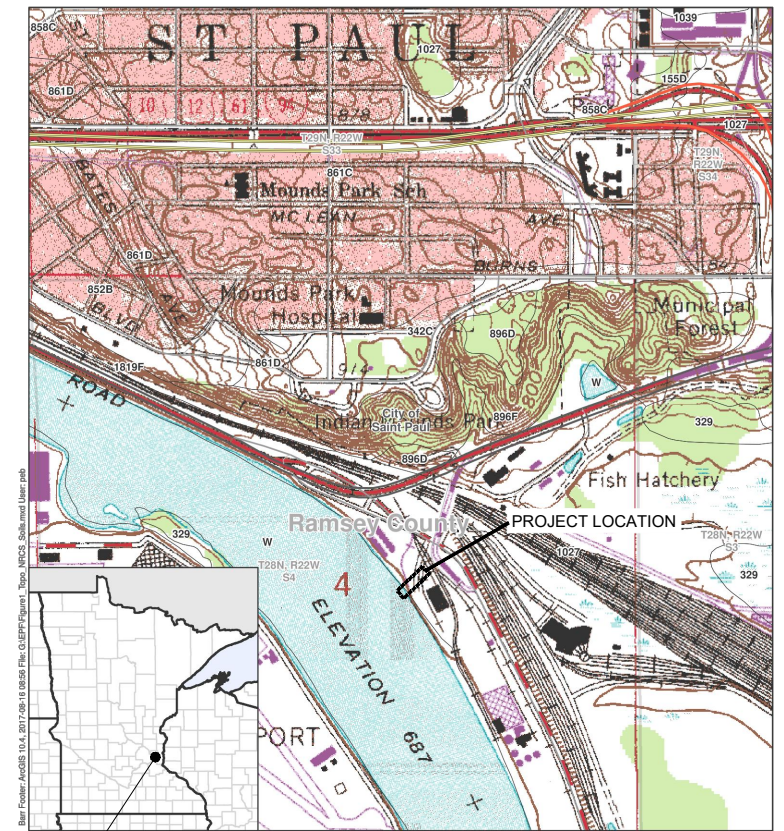
- ALL INSPECTIONS AND MAINTENANCE ACTIVITIES WILL BE RECORDED IN WRITING WITHIN 24 HOURS OF BEING CONDUCTED AND THESE RECORDS WILL BE RETAINED WITH THE SWPPP. RECORDS OF EACH INSPECTION AND MAINTENANCE ACTIVITY WILL INCLUDE THE DATE AND TIME; NAME OF INSPECTOR(S); FINDINGS OF INSPECTIONS; CORRECTIVE 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.
 - 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.
- 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.
 - 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.
- 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.
- 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.
- 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.
- 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.
- 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.
 - 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.
 - 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.
- THE PROJECT WILL NOT RESULT IN CONCRETE OR OTHER WASHOUT ACTIVITIES. IF NECESSARY, A DESCRIPTION OF THE STORAGE AND DISPOSAL OF CONCRETE AND OTHER WASHOUT WASTES SO THAT WASTES DO NOT CONTACT THE GROUND WILL BE ADDED.

8.0 PERMANENT COVER AND PERMIT TERMINATION CONDITIONS:

- 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.
- FOR A CONSTRUCTION-SITE TO ACHIEVE "PERMANENT COVER", THE FOLLOWING REQUIREMENTS MUST BE COMPLETED:
 - 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).
 - 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.



PROJECT LOCATION
 Figure 1
 TOPOGRAPHIC MAP WITH SURFACE WATERS AND SOIL TYPES
 Stormwater Pollution Prevention Plan
 Ramsey County, Minnesota

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CONSTRUCTION									
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DATE RELEASED									

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Date	01/03/2024
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Checked	GWB
Designed	JAW2
Approved	JAW2

RAMSEY-WASHINGTON
 METRO WATERSHED DISTRICT

**BELTLINE MISSISSIPPI RIVER BRANCH
 OUTFALL REPLACEMENT**

EROSION AND SEDIMENT CONTROL PLAN
 SHEET 2 OF 2

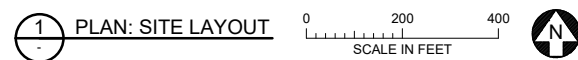
BARR PROJECT No.	23620282.40
CLIENT PROJECT No.	
DWG. No.	G-03
REV. No.	D

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ACCESS CONTACTS		
NO.	LOCATION	CONTACT
1	STA 15+80 STA 30+95	MnDNR - (651) 259-5778
2	STA 41+10	ST. PAUL ROW - (651) 266-6151 MET COUNCIL - (651) 602-4536



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				PRINTED NAME: _____ SIGNATURE: _____ DATE: _____ LICENSE # _____				RELEASED TO/FOR: _____ DATE RELEASED: _____				Corporate Headquarters: Minneapolis, Minnesota Ph: 1-800-632-2277 Fax: (952) 832-2601 www.barr.com								CLIENT PROJECT No. -															
NO. BY CHK. APP. DATE REVISION DESCRIPTION																SITE LAYOUT PLAN				DWG. No. C-01				REV. No. D											

LEGEND

- CONSTRUCTION LIMITS
- |||| EX RETAINING WALL
- |||| EX SHEET PILE WALL
- EX STORM SEWER
- SEDIMENT CONTROL LOG
- SILT CURTAIN
- EX CONCRETE
- EX GRAVEL
- EX BITUMINOUS PAVEMENT
- STAGING AREA
- EX GUY WIRE
- EX BOLLARD
- EX POWER POLE
- EX BORING
- GROUND SURFACE ELEVATION
- SITE COORDINATE

SEDIMENT CONTROL LOG

STAGING AREA
COORDINATE LOCATION AND EXTENTS
WITH EMR METAL RECYCLING

EX FUEL TANK

CONSTRUCTION LIMITS

EX 108" RCP

BELTLINE STORM SEWER
MISSISSIPPI RIVER BRANCH

EMR METAL RECYCLING

EX POWER POLE

12/15/23 WSE 686.7'
OHWL 693.4'

MISSISSIPPI RIVER

SSP RIVER WALL

EX 24" RCP
(EXTENTS BEYOND SHOWN UNKNOWN)

GSE (TYP)
X 701.64'

X 701.49'

HSA-2-23

X 702.04'

X 701.76'

EX CONCRETE DEADMAN

X 701.35'

EX STORM VAULT
STA 1+33

EX 108" STEEL PIPE

X 701.46'

EX TIE-BACK ROD

X 701.04'

TB1

TB2

X 701.46'

EX CONCRETE DEADMAN

X 701.41'

EX TIE-BACK ROD

X 701.23'

TB3

EX UNKNOWN UTILITY OR DEBRIS.
TOTAL LENGTH UNKNOWN.
APPROXIMATELY 2.8' DEPTH

X 701.40'

UT1

UT2

EX TIE-BACK ROD

X 701.40'

TB4

EX CONCRETE DEADMAN

X 701.41'

SP1

SP2

EX CONCRETE DEADMAN

X 701.41'

SP3

EX TIE-BACK ROD

X 701.40'

UT1

UT2

EX TIE-BACK ROD

X 701.40'

TB1

TB2

BELTLINE STORM SEWER ALIGNMENT
START STA. 0+75

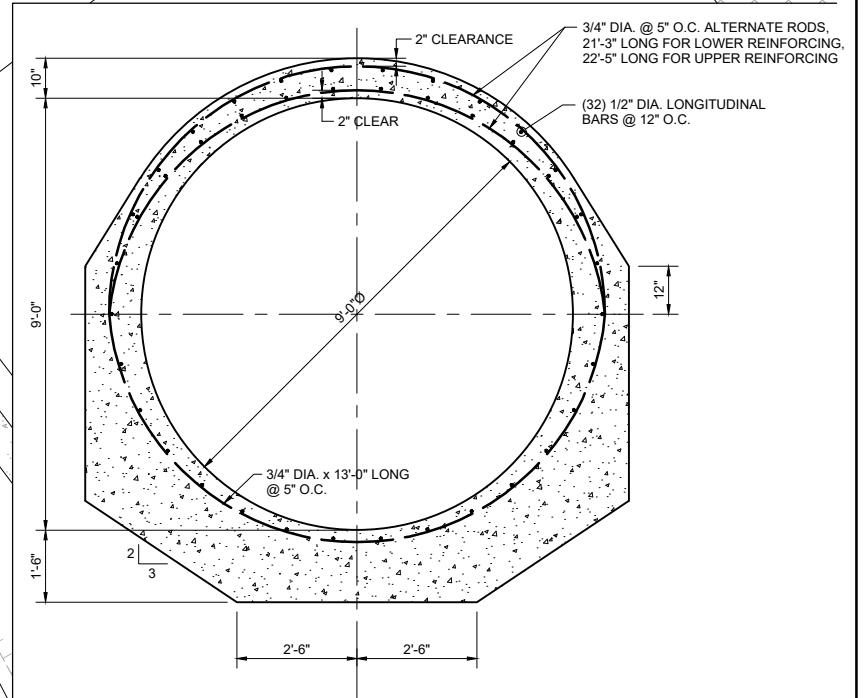
SITE INVESTIGATION SURVEY SHOT (TYP.)

SSP RIVER WALL

FLOTATION SILT CURTAIN.
SEE G-04

EX CONCRETE WALK

EX RETAINING WALL



SECTION: EXISTING RCP SECTION
SCALE IN FEET

NOTES:

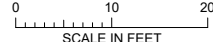
1. SEE DRAWING R-01 FOR INFORMATION RELATED TO THE EXISTING SHEET PILE AND RELATED COMPONENTS.
2. CONTRACTOR TO CONFIRM EXISTING UNKNOWN UTILITY OR DEBRIS PRIOR TO EXCAVATION. EXTENT SHOWN IS FROM DECEMBER 2023 HYDROVACUING INVESTIGATION.
3. TIE-BACK ROD LOCATIONS WERE OBTAINED DURING HYDROVACUING INVESTIGATION AT DISCRETE LOCATIONS SHOWN. THE REMAINING ALIGNMENT AND DEADMAN CONFIGURATION IS APPROXIMATE BASED ON BARR'S INTERPRETATION OF DRAWING R-01. CONTRACTOR TO CONFIRM PRIOR TO EXCAVATION.
4. ONLY TIE-BACK RODS CLOSEST TO THE PIPE REPLACEMENT ARE SHOWN FOR CLARITY.
5. ALL OTHER EXISTING FEATURES ARE FROM 12/15/2023 BARR SITE SURVEY.
6. EXISTING RCP SECTION FROM BEST AVAILABLE DATA. ACTUAL RCP CROSS SECTION MAY VARY AND MAY REQUIRE MODIFICATIONS TO MANHOLE STRUCTURE CONNECTION DETAILS.

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EXISTING SITE COORDINATES

POINT ID	DESCRIPTION	NORTHING	EASTING	ELEVATION
RCP1	RCP INVERT	154984.14	585518.11	684.9
SP1	STEEL PIPE OUTLET INVERT	154944.14	585470.57	685.1
SP2	STEEL PIPE OUTLET INVERT	154941.22	585472.25	685.3
SP3	STEEL PIPE OUTLET INVERT	154937.79	585475.76	685.2
SP4	STEEL PIPE INVERT	154976.59	585510.61	684.9
SV1	STORM VAULT INVERT	154987.25	585514.53	685.1
SV2	STORM VAULT INVERT	154980.78	585521.21	685.1
SV3	STORM VAULT INVERT	154972.38	585514.58	685.1
SV4	STORM VAULT INVERT	154980.77	585506.41	685.1
TB1	TIE-BACK ROD SURFACE SHOT APPROXIMATE T.O. TIE-BACK ROD 693.2	154960.69	585479.18	701.2
TB2	TIE-BACK ROD SURFACE SHOT APPROXIMATE T.O. TIE-BACK ROD 693.3	154965.50	585483.99	701.3
TB3	TIE-BACK ROD SURFACE SHOT APPROXIMATE T.O. TIE-BACK ROD 693.5	154948.44	585500.85	701.5
TB4	TIE-BACK ROD SURFACE SHOT APPROXIMATE T.O. TIE-BACK ROD 693.3	154942.92	585492.10	701.3
UT1	UNKNOWN UTILITY SURFACE SHOT	154945.38	585492.31	701.3
UT2	UNKNOWN UTILITY SURFACE SHOT	154941.85	585493.40	701.3

PLAN: EXISTING CONDITIONS AND EROSION CONTROL



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CONSTRUCTION						
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Project Office:
BARR ENGINEERING CO.
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Suite 200
MINNEAPOLIS, MN 55435
Corporate Headquarters:
Minneapolis, Minnesota
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Approved	JAW2



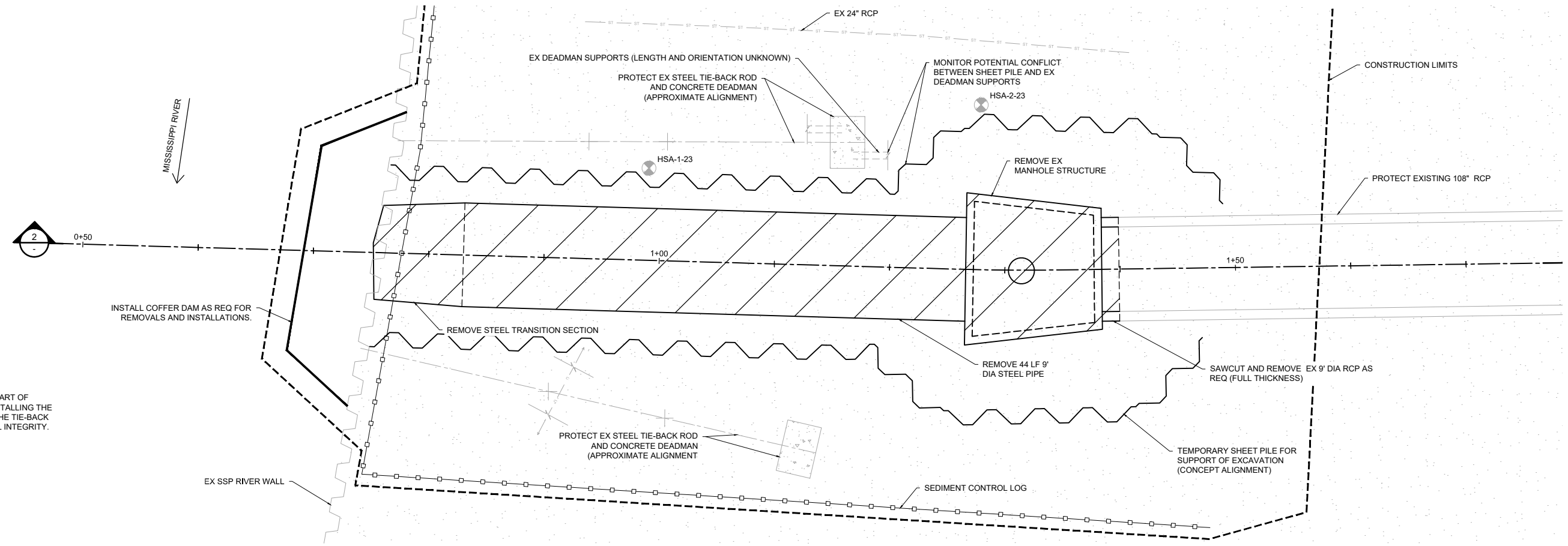
**BELTLINE MISSISSIPPI RIVER BRANCH
OUTFALL REPLACEMENT**
EXISTING CONDITIONS AND EROSION CONTROL
PLAN AND SECTION

BARR PROJECT No. 23620282.40
CLIENT PROJECT No. -
DWG. No. C-02
REV. No. D

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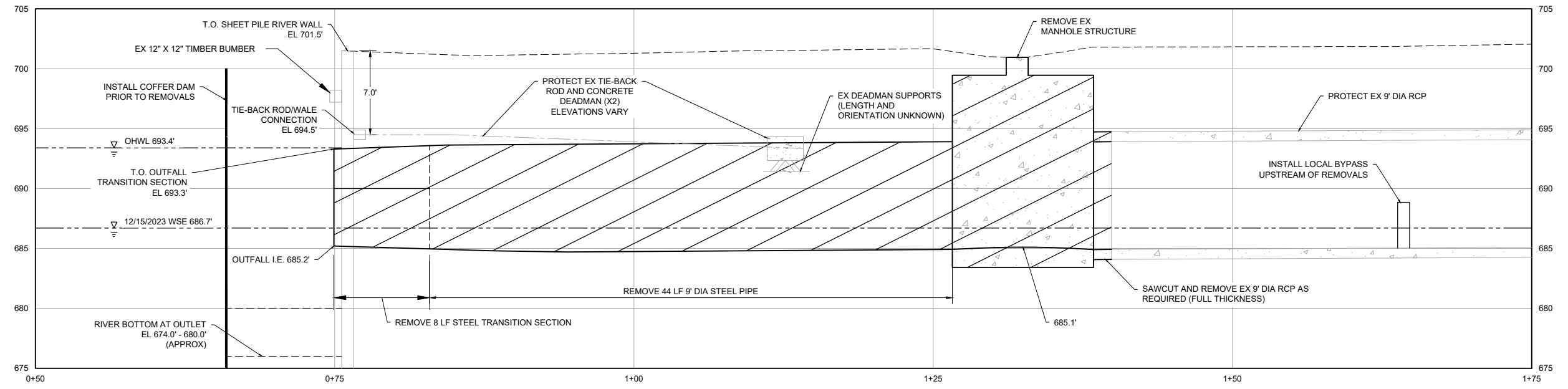
- CONSTRUCTION LIMITS
- SEDIMENT CONTROL LOG
- ▭ COFFER DAM
- ▭ EXISTING SHEET PILE WALL
- EXISTING STORM SEWER
- ▭ EXISTING GRAVEL
- EXISTING GUY WIRE
- EXISTING BOLLARD
- EXISTING POWER POLE
- ⊙ EXISTING BORING



- INSPECTION NOTES:**
- COORDINATE WITH SAINT PAUL PORT AUTHORITY AS PART OF LOCATING THE EXISTING TIE-BACK RODS PRIOR TO INSTALLING THE TEMPORARY SHEET PILE. A VISUAL ASSESSMENT OF THE TIE-BACK RODS MAY BE REQUESTED TO EVALUATE STRUCTURAL INTEGRITY.

1 PLAN: SITE REMOVALS SCALE IN FEET

- NOTES:**
- ALL REMOVALS AND INSTALLATIONS ARE TO BE CONDUCTED IN DRY CONDITIONS.
 - STORMWATER BYPASS: CONTRACTOR IS RESPONSIBLE FOR STORMWATER BYPASS WITHIN THE EXISTING BELTLINE STORM SEWER FOR THE DURATION OF THE WORK. SEE SHEET C-01 FOR A POTENTIAL BYPASS/DIVERSION LOCATION. INFLOW FROM TAPS AND SEEPAGE WITHIN THE TUNNEL DOWNSTREAM OF THE BYPASS SHALL BE COLLECTED NEAR THE UPSTREAM EXTENTS OF THE EXCAVATION AND BYPASSED AROUND THE WORK.
 - COFFER DAM: INSTALLATION OF A COFFER DAM AROUND THE OUTFALL IS REQUIRED FOR REMOVALS AND INSTALLATIONS. PREVIOUS DIVE INSPECTIONS (BY OTHERS) INDICATE THE POTENTIAL FOR DEBRIS ON THE RIVER BOTTOM ALONG THE EXISTING STEEL SHEET PILE RIVER WALL WHICH MAY IMPACT COFFER DAM INSTALLATION.
 - DEWATERING SYSTEM: INSTALLATION OF A DEWATERING SYSTEM WITHIN THE EXCAVATION MAY ALSO BE REQUIRED TO CONDUCT THE WORK IN DRY CONDITIONS.
 - SUPPORT OF EXCAVATION: CONTRACTOR SHALL USE TEMPORARY STEEL SHEET PILE FOR SUPPORT OF EXCAVATION TO MINIMIZE THE EXCAVATION LIMITS AND IMPACTS TO THE EXISTING TIE-BACK RODS AND CONCRETE DEADMEN. SHEET PILE SHALL MAINTAIN A MINIMUM OF 1' AND 2' FROM BETWEEN THE OUTERMOST EDGE OF THE SHEET PILE AND THE EXISTING CONCRETE DEADMEN AND THE TIE-BACK RODS RESPECTIVELY. CONTRACTOR SHALL CONFIRM THE LOCATIONS OF THE EXISTING TIE-BACK RODS AND CONCRETE DEADMEN PRIOR TO INSTALLING THE TEMPORARY SHEET PILE. THE CONTRACTOR SHALL REMOVE THE TEMPORARY SHEET PILE AFTER THE WORK IS COMPLETE.
 - MONITORING PLAN: CONTRACTOR SHALL DEVELOP AND IMPLEMENT A MONITORING PLAN TO EVALUATE POTENTIAL MOVEMENT OF SHEET PILE DURING REMOVALS AND INSTALLATIONS.
 - THE STORMWATER BYPASS, COFFER DAM, AND SUPPORT OF EXCAVATION ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE DESIGNED BY A MINNESOTA PROFESSIONAL ENGINEER. CONTRACTOR TO SUBMIT PLAN FOR EACH FOR APPROVAL BY THE OWNER AND ENGINEER.
 - THE PRESENCE OF PILE FOUNDATIONS BELOW THE EXISTING STEEL PIPE, MANHOLE, AND RCP IS UNKNOWN. IF PILES ARE ENCOUNTERED DURING THE REMOVALS, EXCAVATE AND REMOVE PILES ONE FOOT MINIMUM BELOW THE BOTTOMS OF THE PROPOSED STRUCTURES. BACKFILL EXCAVATION WITH COMPACTED CRUSHED STONE BEDDING.



2 PROFILE: SITE REMOVALS SCALE IN FEET

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Approved	JAW2



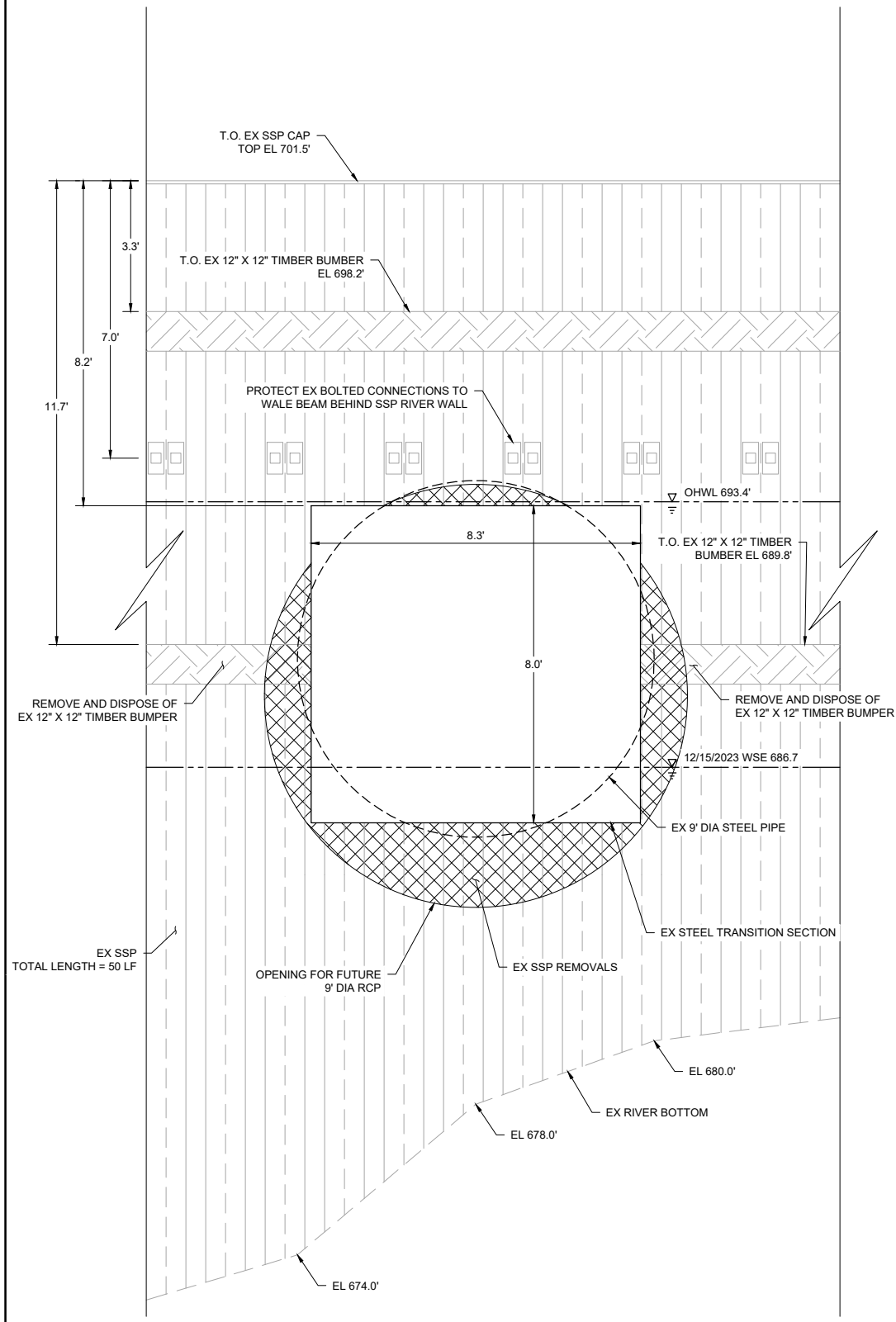
BELTLINE MISSISSIPPI RIVER BRANCH OUTFALL REPLACEMENT

SITE REMOVALS PLAN AND PROFILE

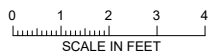
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CLIENT PROJECT No.	
DWG. No.	C-03
REV. No.	D

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 User: j.draughn

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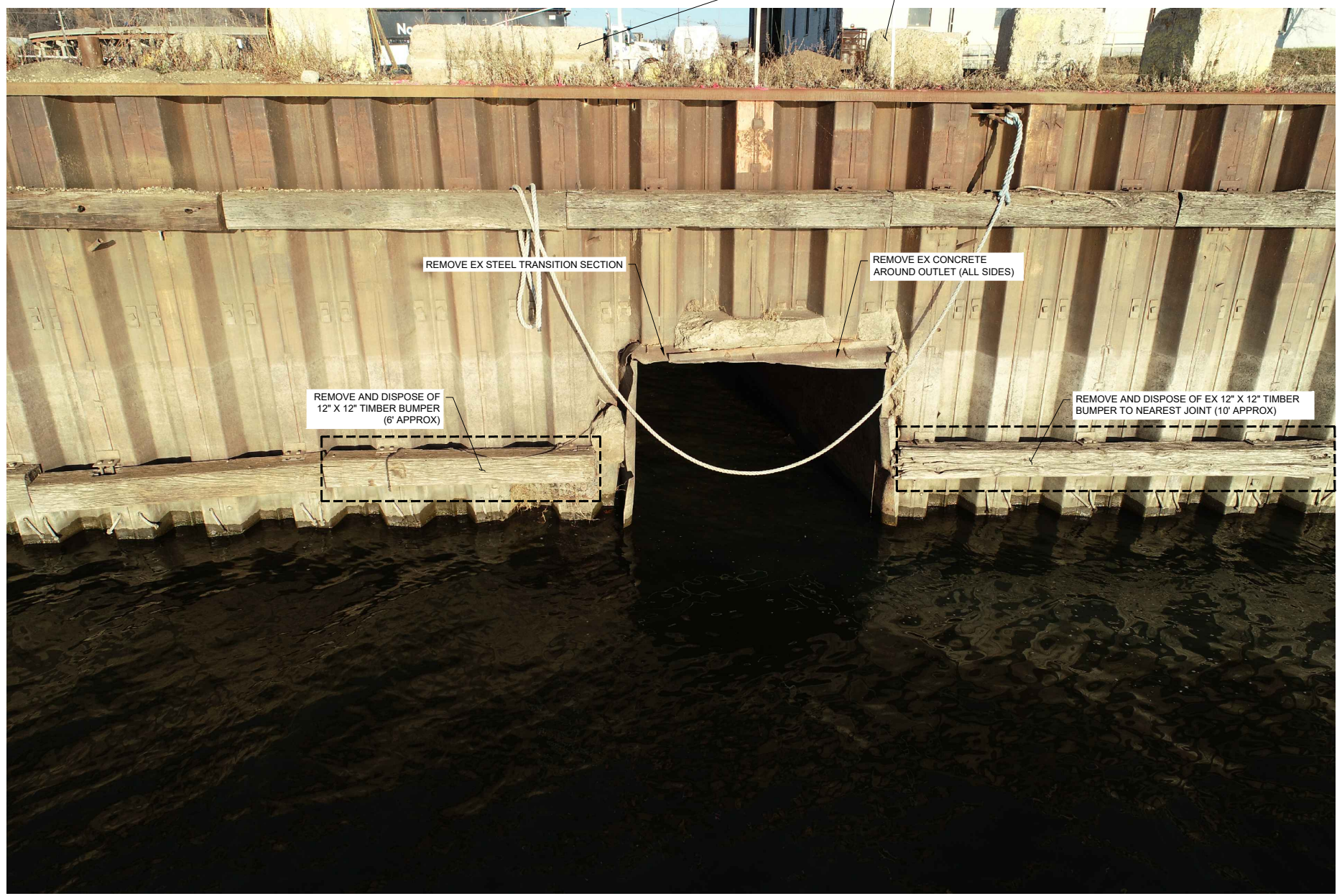


1 ELEVATION (LOOKING NORTHEAST): OUTFALL REMOVALS



NOTES:

- SEE NOTES ON SHEET C-03 FOR BASEFLOW BYPASS AND COFFERDAM REQUIREMENTS TO BE PERFORMED PRIOR TO REMOVALS.
- APPROXIMATE RIVER BOTTOM ELEVATIONS AT OUTLET TAKEN FROM 12/15/2023 SITE SURVEY (APPROXIMATE)
- PHOTO IN DETAIL 2 FROM DRONE SURVEY CONDUCTED ON 12/07/2023



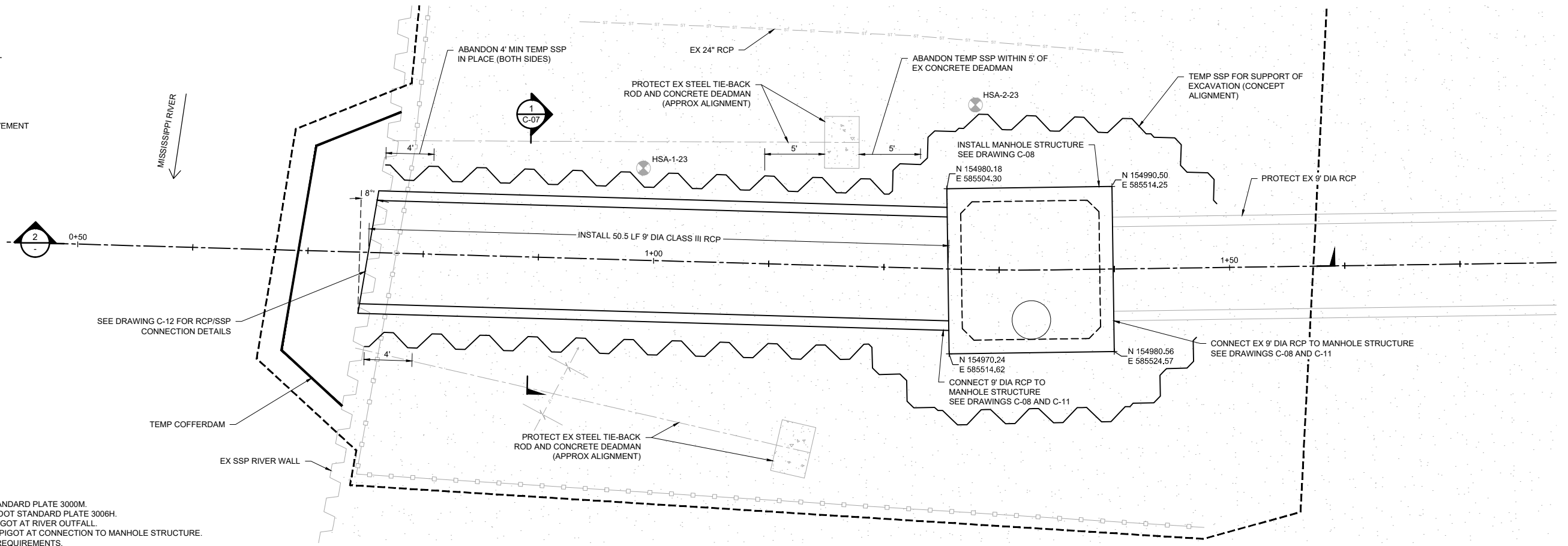
2 PHOTO (LOOKING NORTHEAST): OUTFALL REMOVALS

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				PRINTED NAME: _____ SIGNATURE: _____ DATE: _____ LICENSE # _____				RELEASED TO/FOR: _____				DATE RELEASED: _____				Corporate Headquarters: Minneapolis, Minnesota Ph: 1-800-632-2277 Fax: (952) 832-2601 www.barr.com				CLIENT PROJECT No. -											
																				BELTLINE MISSISSIPPI RIVER BRANCH OUTFALL REPLACEMENT				DWG. No. C-04				REV. No. D			
																				OUTFALL REMOVALS ELEVATION AND PHOTO											

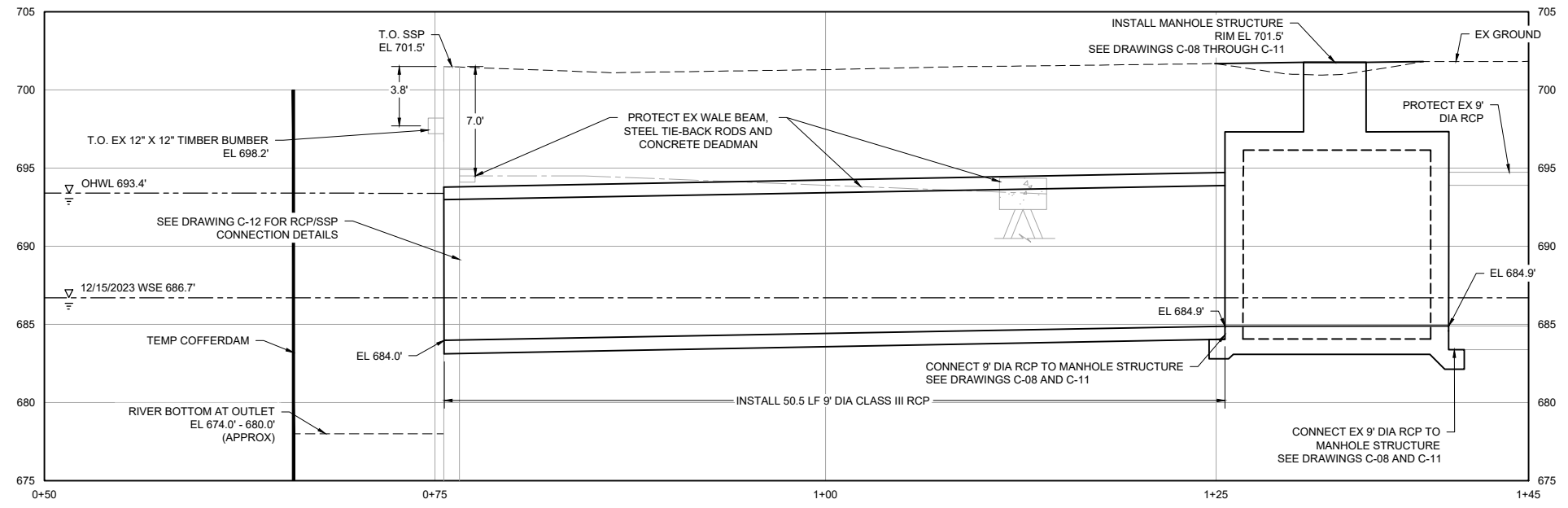
LEGEND

- CONSTRUCTION LIMITS
- SEDIMENT CONTROL LOG
- COFFER DAM
- EXISTING SHEET PILE WALL
- EXISTING STORM SEWER
- EXISTING CONCRETE
- EXISTING GRAVEL
- EXISTING BITUMINOUS PAVEMENT
- EXISTING GUY WIRE
- EXISTING BOLLARD
- EXISTING POWER POLE
- EXISTING BORING



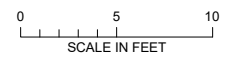
- RCP NOTES:**
1. RCP SHALL BE IN ACCORDANCE WITH MNDOT STANDARD PLATE 3000M.
 2. RCP JOINTS SHALL BE IN ACCORDANCE WITH MNDOT STANDARD PLATE 3006H.
 3. PROVIDE 8 DEGREE SKEW AND OMIT BELL OR SPIGOT AT RIVER OUTFALL.
 4. PROVIDE 2.5 DEGREE SKEW AND OMIT BELL OR SPIGOT AT CONNECTION TO MANHOLE STRUCTURE.
 5. SEE DRAWING C-07 FOR TYPICAL RCP BACKFILL REQUIREMENTS.

1 PLAN: RCP AND MANHOLE STRUCTURE LAYOUT



- NOTES:**
1. REMOVE TEMPORARY SHEET PILE AND COFFER DAM AFTER INSTALLATIONS AND BACKFILL ARE COMPLETE UNLESS NOTED OTHERWISE.

2 PROFILE: RCP AND MANHOLE STRUCTURE LAYOUT

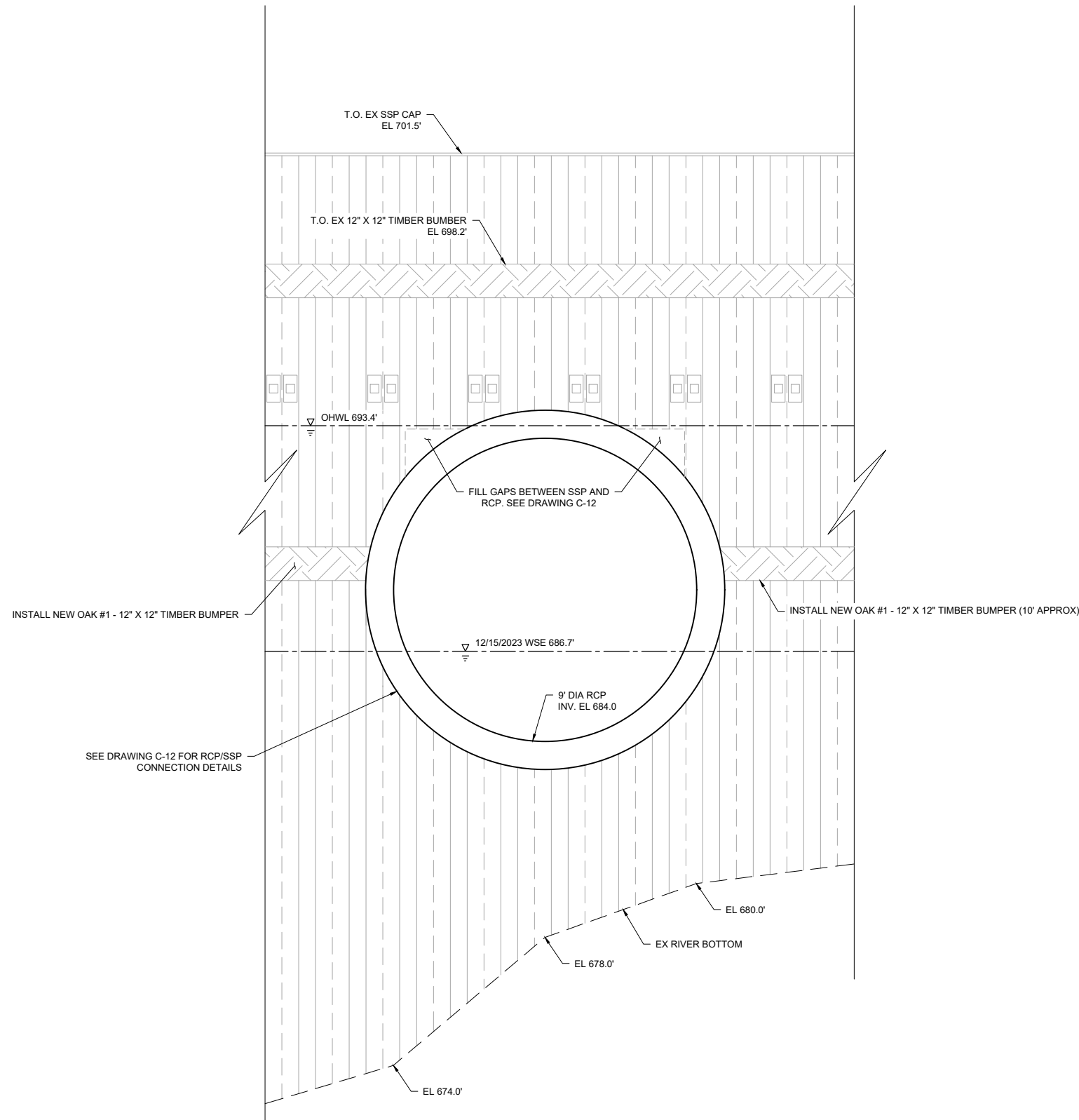


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		CONSTRUCTION																		CLIENT PROJECT No.			
PRINTED NAME		SIGNATURE		RELEASED TO/FOR		A		B		C		D		0		1		2		Corporate Headquarters: Minneapolis, Minnesota Ph: 1-800-632-2277			
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NO.		BY		CHK.		APP.		DATE		REVISION DESCRIPTION										Scale AS SHOWN Date 01/03/2024 Drawn ADB2 Checked GWB Designed JAW2 Approved JAW2			
																				BELTLINE MISSISSIPPI RIVER BRANCH OUTFALL REPLACEMENT RCP AND MANHOLE STRUCTURE LAYOUT PLAN AND PROFILE		DWG. No. C-05 REV. No. D	

CADD USER: Aloc D. Blatman FILE: M:\DESIGN\23620282\4023620282-40_C-06_STORMWATER OUTLET SECTION VIEW-RCP.DWG PLOT SCALE: 1:2 PLOT DATE: 5/28/2024 3:38 PM
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 BARR M:\Users\blatman\OneDrive\Documents\23620282\4023620282-40_C-06\DWG\23620282\4023620282-40_C-06.dwg Plot on 05/28/2024 12:12:25



1 ELEVATION (LOOKING NORTHEAST): OUTFALL LAYOUT
 C-06 0 1 2 3 4
 SCALE IN FEET

95% DRAFT
 FOR REVIEW

NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINTED NAME: _____
 SIGNATURE: _____
 DATE: _____ LICENSE # _____

CLIENT	2/09/24	4/17/24	5/17/24	5/29/24		
BID						
CONSTRUCTION						
RELEASED TO/FOR	A	B	C	D	0	1 2
DATE RELEASED						

BARR
 Project Office:
 BARR ENGINEERING CO.
 4300 MARKETPOINTE DRIVE
 Suite 200
 MINNEAPOLIS, MN 55435
 Corporate Headquarters:
 Minneapolis, Minnesota
 Ph: 1-800-632-2277
 Fax: (952) 832-2601
 www.barr.com

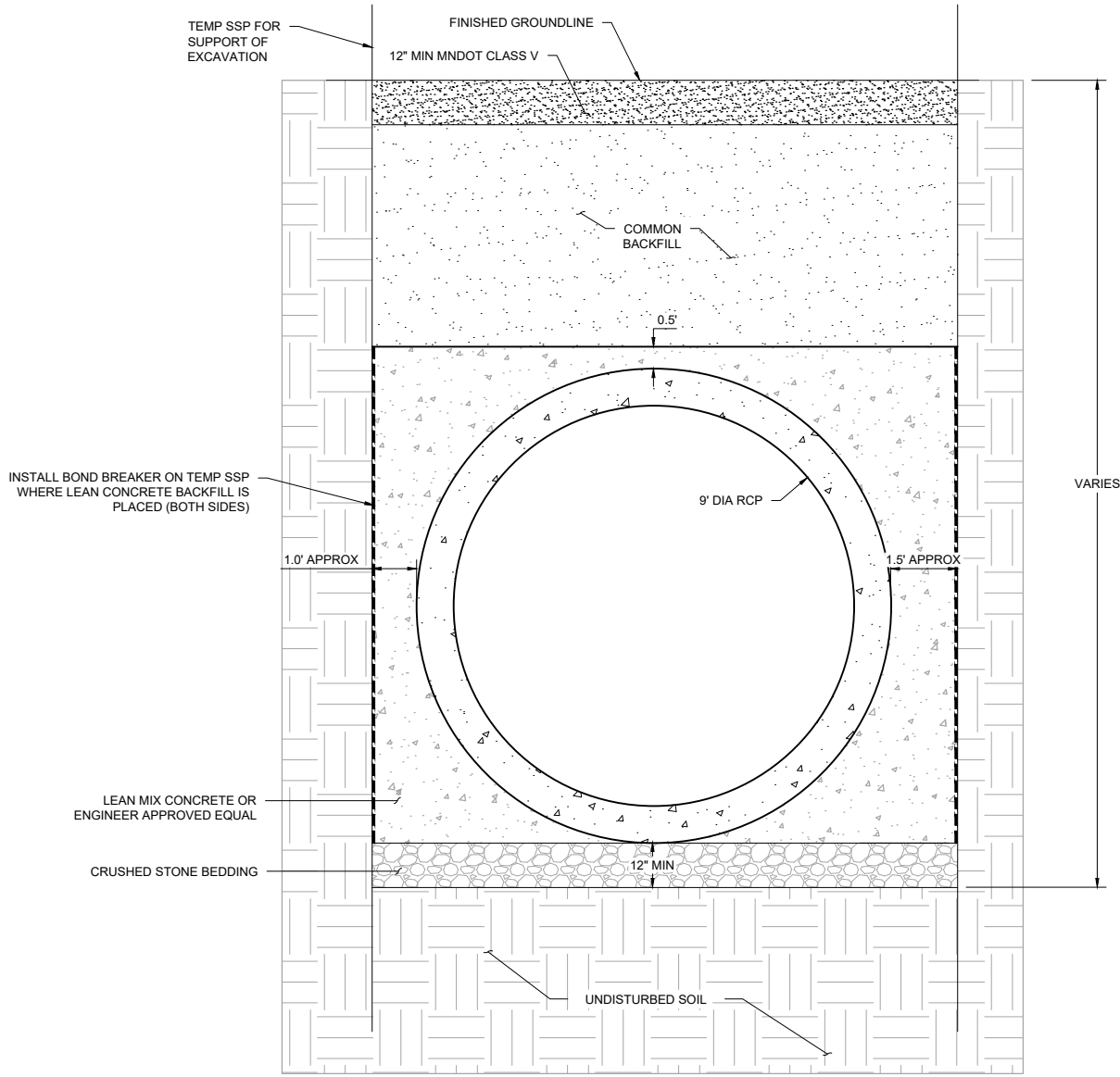
Scale	AS SHOWN
Date	01/03/2024
Drawn	ADB2
Checked	GWB
Designed	JAW2
Approved	JAW2



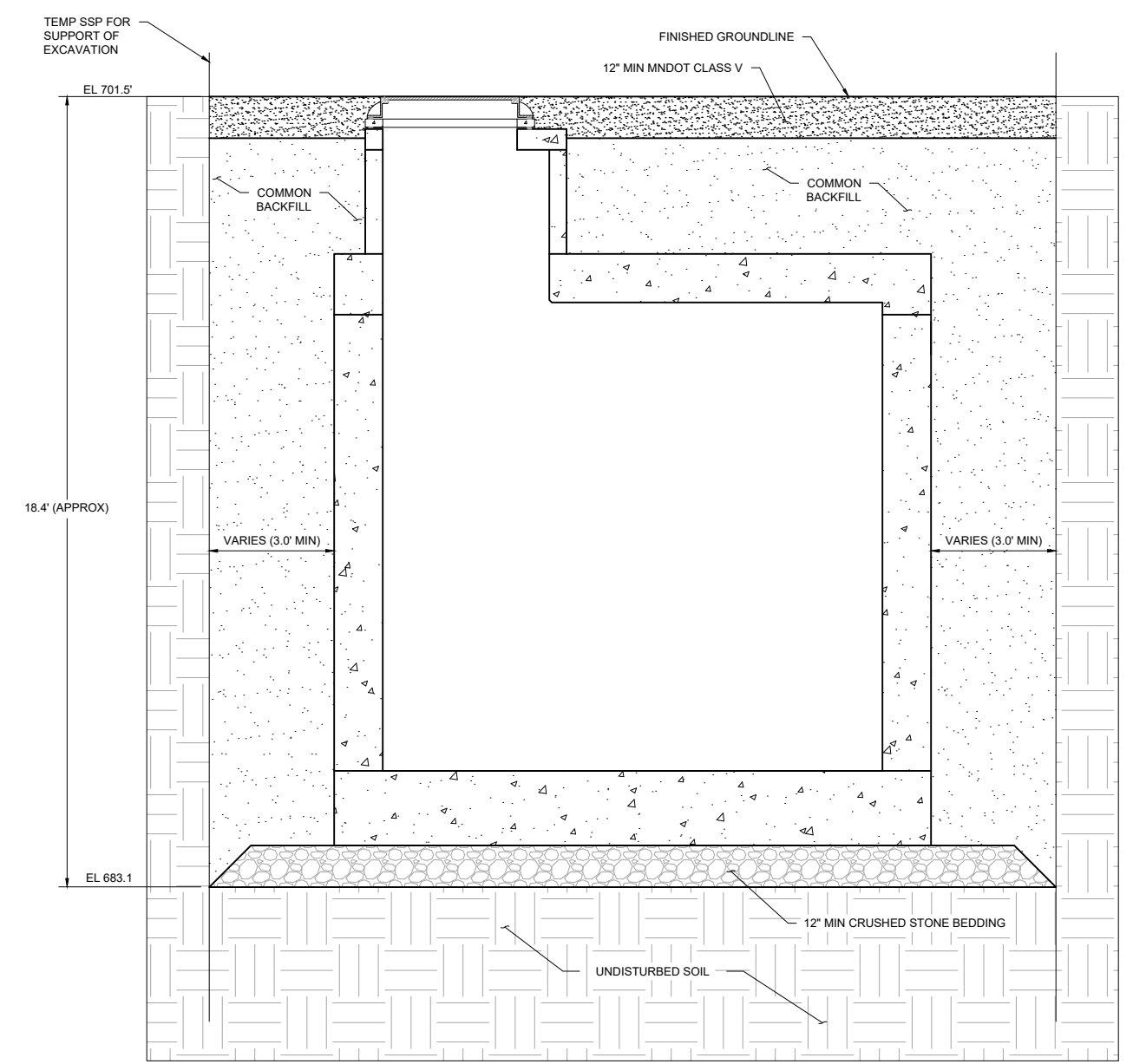
**BELTLINE MISSISSIPPI RIVER BRANCH
 OUTFALL REPLACEMENT**
**OUTFALL LAYOUT
 ELEVATION**

BARR PROJECT No. 23620282.40	
CLIENT PROJECT No. -	
DWG. No. C-06	REV. No. D

CADD USER: Alac D. Bitterman FILE: M:\DESIGN\23620282.40\23620282-40_C-07_STORMWATER DETAILS-RCP.DWG PLOT SCALE: 1:2 PLOT DATE: 5/29/2024 8:46 AM
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 User: Alac D. Bitterman



1 DETAIL: RCP TRENCH AND BACKFILL 0 1 2 3 4 SCALE IN FEET



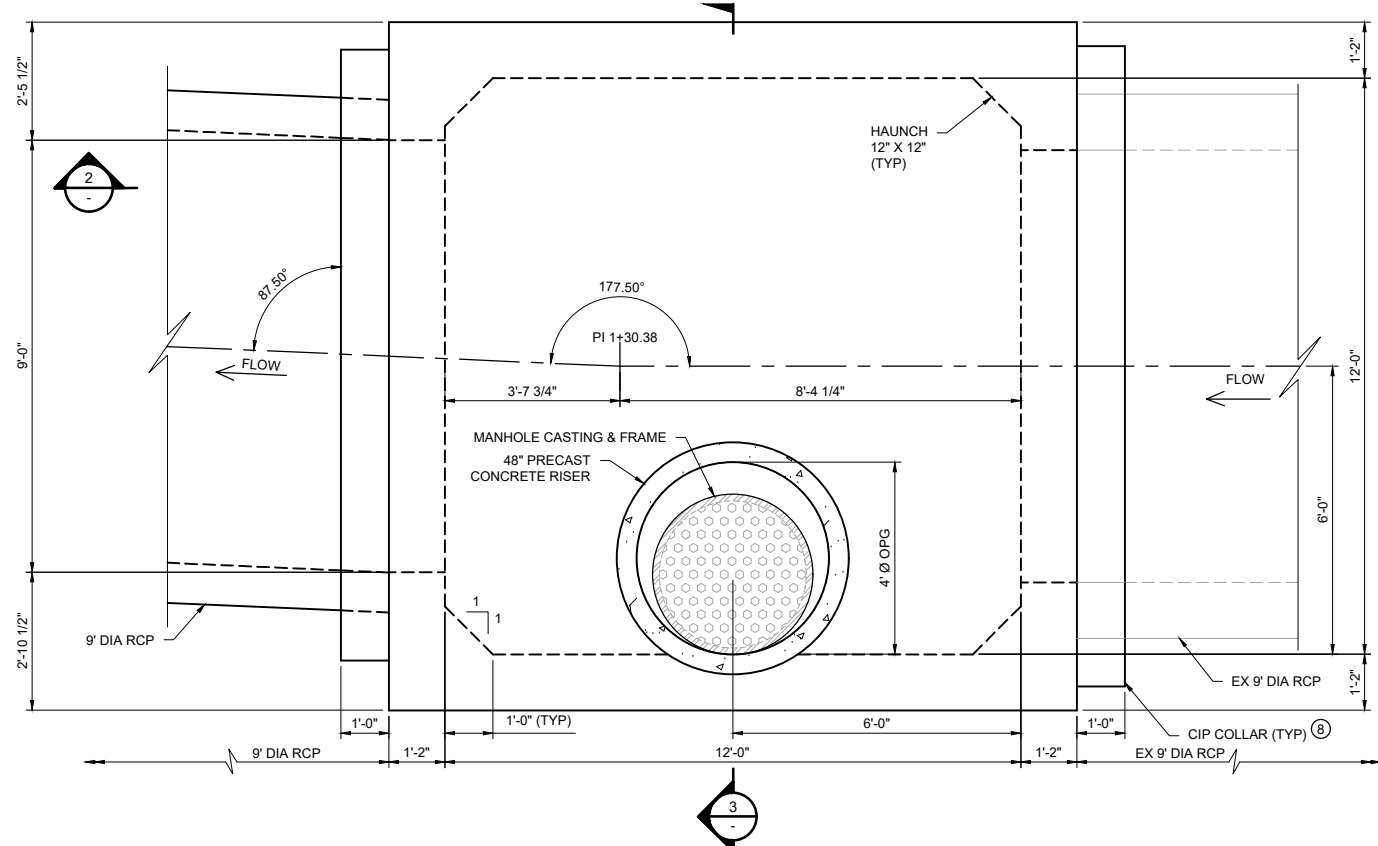
2 DETAIL: MANHOLE STRUCTURE BACKFILL 0 1 2 3 4 SCALE IN FEET

- NOTES:**
- CRUSHED STONE BEDDING SHALL HAVE 100% PASSING THE 2 INCH SIEVE, AND 100% RETAINED ON THE 3/4" SIEVE.
 - REUSE EXCAVATED SOILS AS BACKFILL. REMOVE ALL DEBRIS AND ROCKS GREATER THAN 3 INCHES PRIOR TO PLACEMENT. COMPACT BACKFILL IN 12 INCH LIFTS. USE LIGHT COMPACTION EQUIPMENT SUCH AS PLATE COMPACTORS OR WALK BEHIND ROLLERS ADJACENT TO AND WITHIN 2 FEET OF TOP OF STRUCTURES.
 - CONTRACTOR IS RESPONSIBLE FOR MAINTAINING HORIZONTAL AND VERTICAL ALIGNMENT OF RCP DURING INSTALLATION AND BACKFILL, INCLUDING MEASURES TO PREVENT RCP BUOYANCY.
 - TEMPORARY SHEET PILE TO BE REMOVED AFTER BACKFILL UNLESS NOTED OTHERWISE.
 - LEAN MIX CONCRETE SHALL BE IN ACCORDANCE WITH MNDOT 2461 OR ENGINEER APPROVED EQUAL.

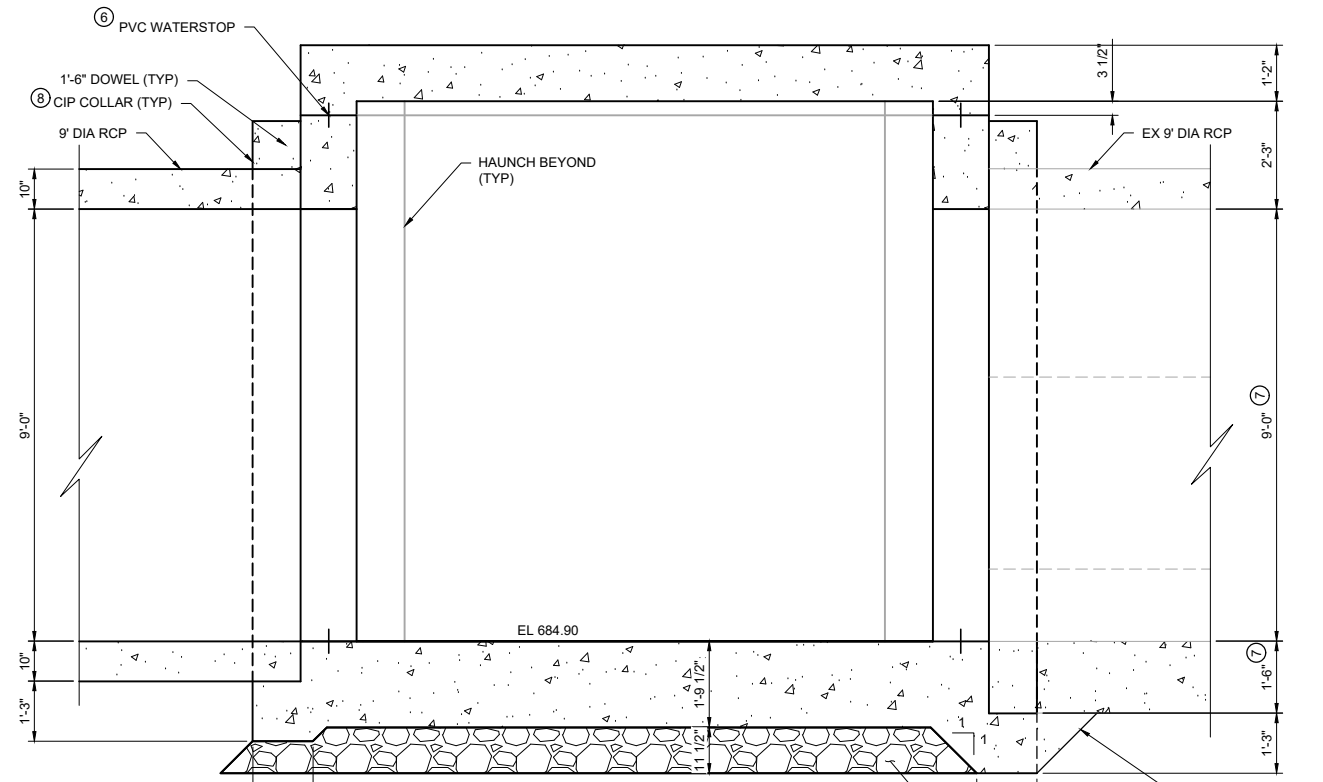
95% DRAFT
FOR REVIEW

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NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION																													

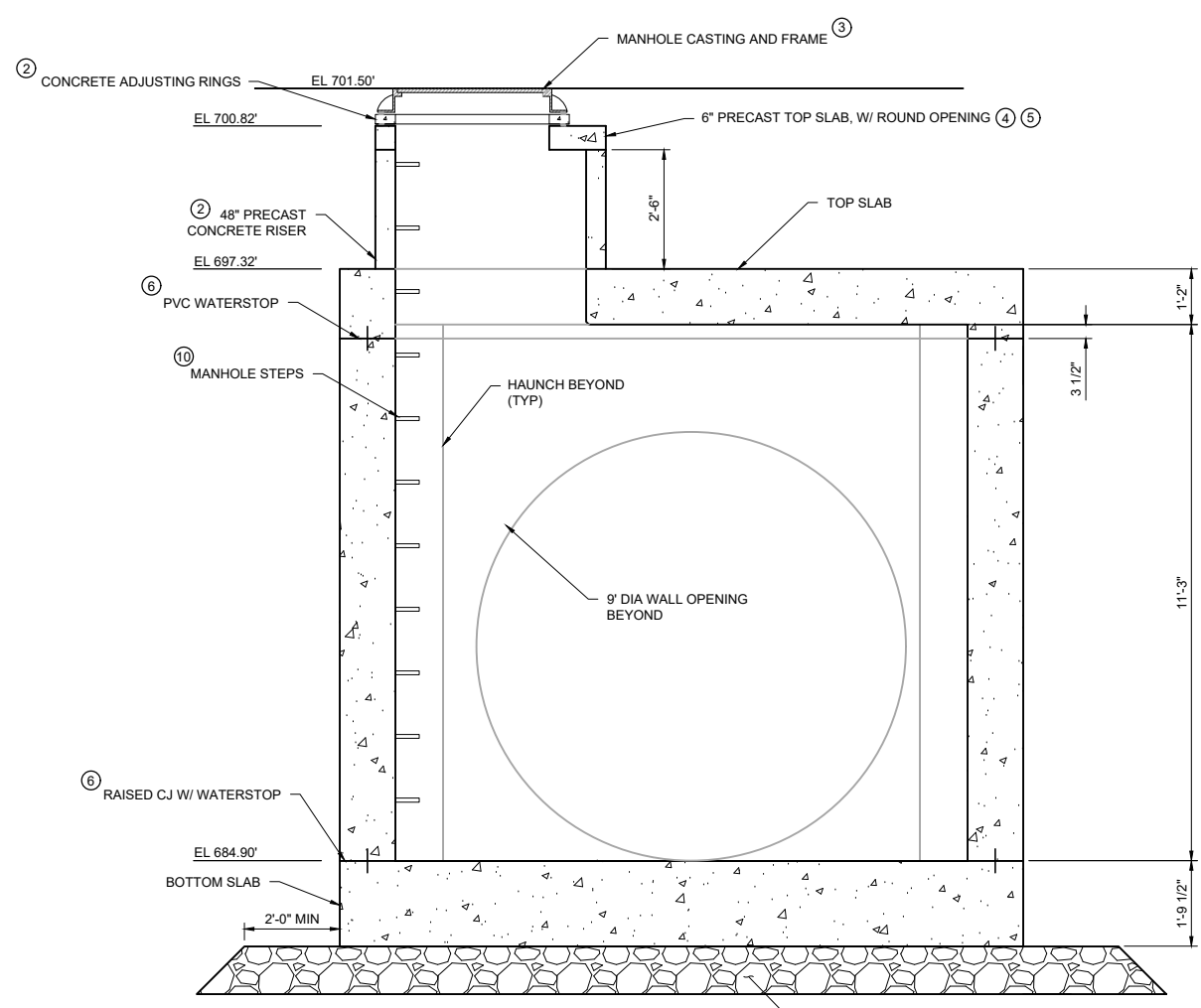
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1 PLAN: MANHOLE STRUCTURE
SCALE 0 1 2 3 4 5



2 SECTION: MANHOLE STRUCTURE
SCALE 0 1 2 3 4 5



3 SECTION: MANHOLE STRUCTURE
SCALE 0 1 2 3 4 5

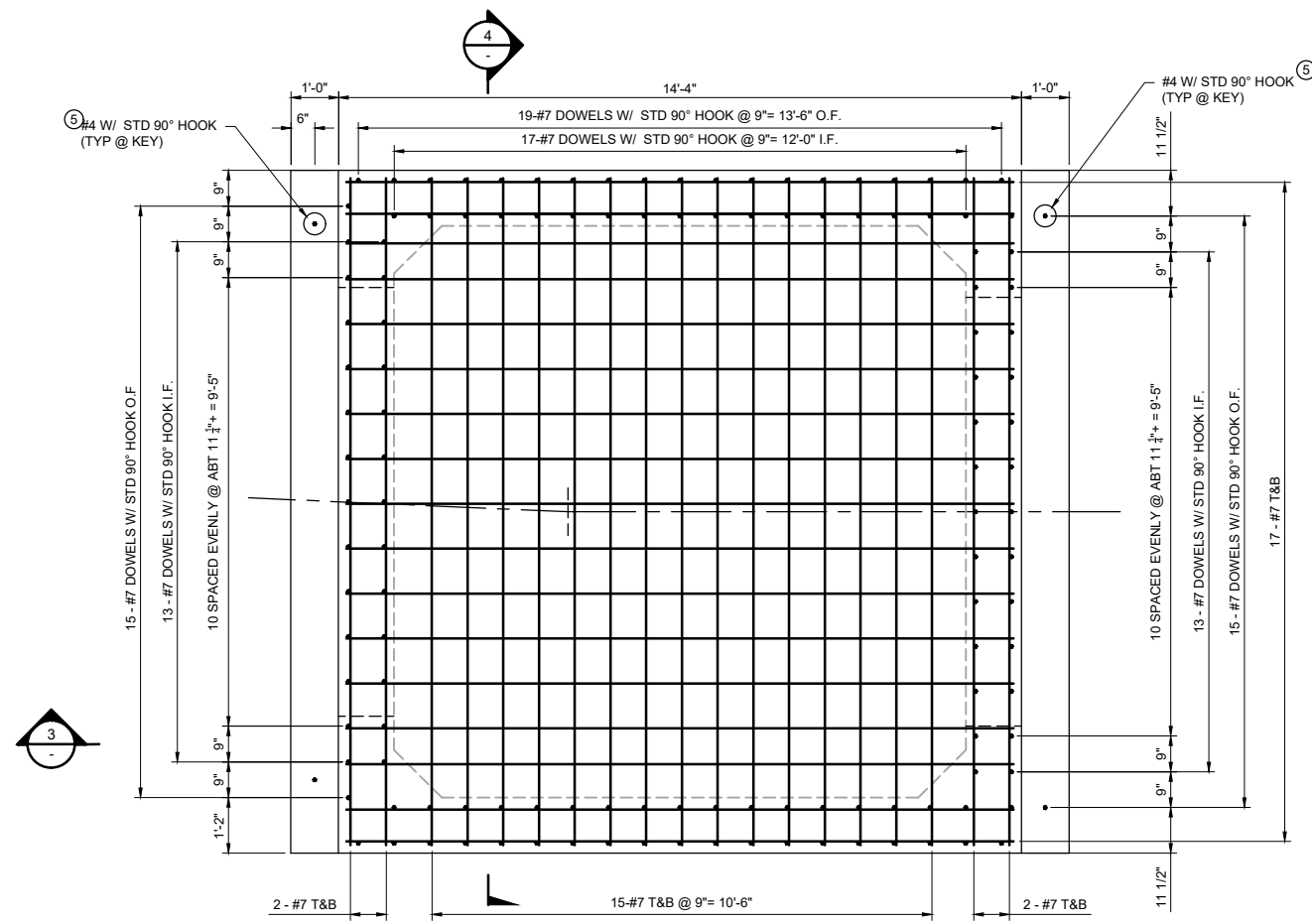
NOTES:

- 1 FOR CONCRETE MANHOLE REINFORCING. SEE DRAWINGS C-09 AND C-10.
- 2 CONCRETE ADJUSTING RINGS AS REQUIRED. MORTAR BETWEEN CASTING. CONCRETE ADJUSTING RINGS, AND STRUCTURE WITH NON-SHRINK GROUT. INSTALL MINIMUM NUMBER OF RINGS THROUGH USE OF 2", 6", AND 1" ADJUSTING RINGS (2" MAX HEIGHT). EXTERNAL SEAL OR INTERNAL INFILTRATION AND INGRESS BARRIER TO BE INSTALLED IN CONJUNCTION WITH ADJUSTING AND CASTING ASSEMBLY.
- 3 MANHOLE CASTING AND FRAME: NEENAH R-1739-ALM
- 4 48" RISER AND TOP SLAB TO REST ON FULL BED OF MASTIC ON FULL THICKNESS OF MANHOLE STRUCTURE WALLS. SEE MNDOT STANDARD PLATE 4020J AND ASTM C433 FOR JOINT REQUIREMENTS.
- 5 6" HS-25 ROADWAY LOADING TOP SLAB. PRECAST REINFORCED CONCRETE WITH 40" DIA. ROUND OPENING. SEE MNDOT STANDARD PLATE 4020J.
- 6 PVC WATERSTOP: GREENSTREAK TYPE 781. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE 2" CLEARANCE AT PIPE OPENING.
- 7 DRAWINGS FOR EXISTING 9' DIA RCP PIPE ARE NOT AVAILABLE WITHIN PROJECT LIMITS. ASSUMED PIPE GEOMETRY SHOWN ON DRAWING C-02 IS BASED ON PIPE SECTION FROM BELTLINE DRAWINGS FOUND ELSEWHERE.
- 8 FOR CONCRETE COLLAR, SEE DRAWING C-11.
- 9 CRUSHED STONE BEDDING SHALL HAVE 100% PASSING THE 2 INCH SIEVE, AND 100% RETAINED ON THE 3/4" SIEVE. SEE SHEET C-07 FOR MANHOLE STRUCTURE BACKFILL DETAILS.
- 10 INSTALL MANHOLE STEPS PER MNDOT STANDARD PLATE 4180J.

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FOR REVIEW

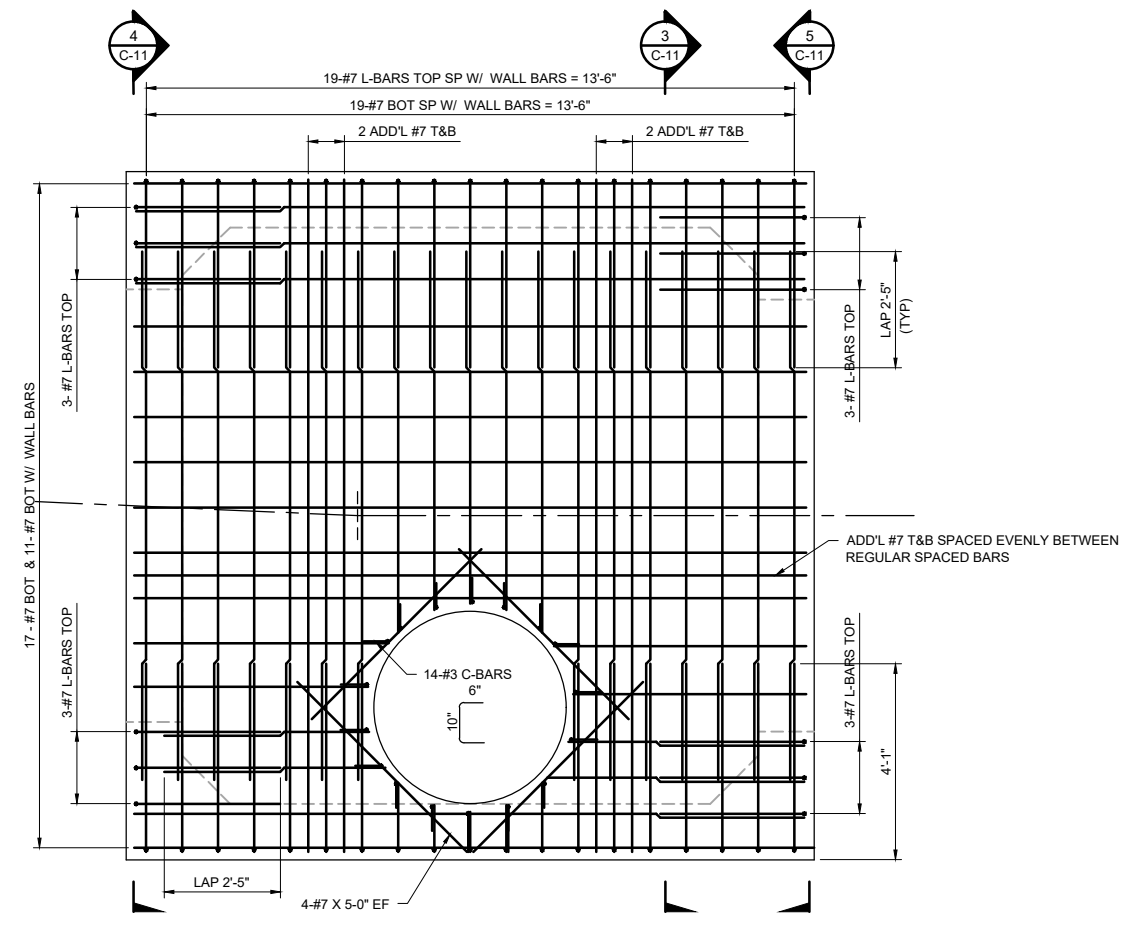
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. PRINTED NAME: PAUL K. NIELSEN SIGNATURE: _____ DATE: _____ LICENSE # 19006				CLIENT: BARR ENGINEERING CO. BID: 05/17/24 05/29/24 CONSTRUCTION: _____ RELEASED TO/FOR: _____ DATE RELEASED: _____				Project Office: BARR ENGINEERING CO. 4300 MARKETPOINTE DRIVE Suite 200 MINNEAPOLIS, MN 55435 Corporate Headquarters: Minneapolis, Minnesota Ph: 1-800-632-2277 Ph: 1-800-632-2277				Scale: AS SHOWN Date: 01/03/2024 Drawn: MJJ Checked: PKN Designed: PKN Approved: PKN				BELTLINE MISSISSIPPI RIVER BRANCH OUTFALL REPLACEMENT MANHOLE STRUCTURE PLAN AND SECTIONS				BARR PROJECT No. 23620282.40 CLIENT PROJECT No. - DWG. No. C-08 REV. No. B			
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CADD USER: ALEC D. BATEMAN FILE: M:\DESIGN\23620282-40_C-08_MH STRUCTURE GEOMETRY PKN-2.DWG PLOT SCALE: 1/2" PLOT DATE: 5/29/2024 8:35 AM



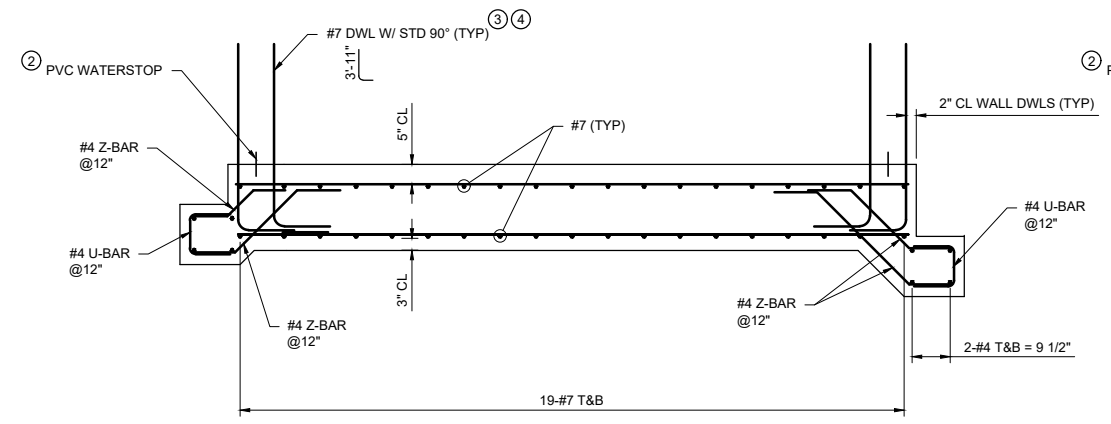
1 DETAIL: BOTTOM SLAB REINFORCEMENT ¹

0 1 2 3 4 5
SCALE



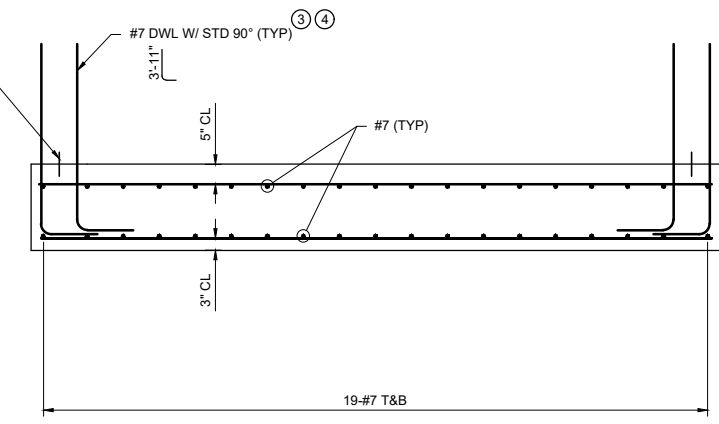
2 DETAIL: TOP SLAB WALL REINFORCEMENT ^{3 4}

0 1 2 3 4 5
SCALE



3 SECTION: BOTTOM SLAB REINFORCEMENT

0 1 2 3 4 5
SCALE



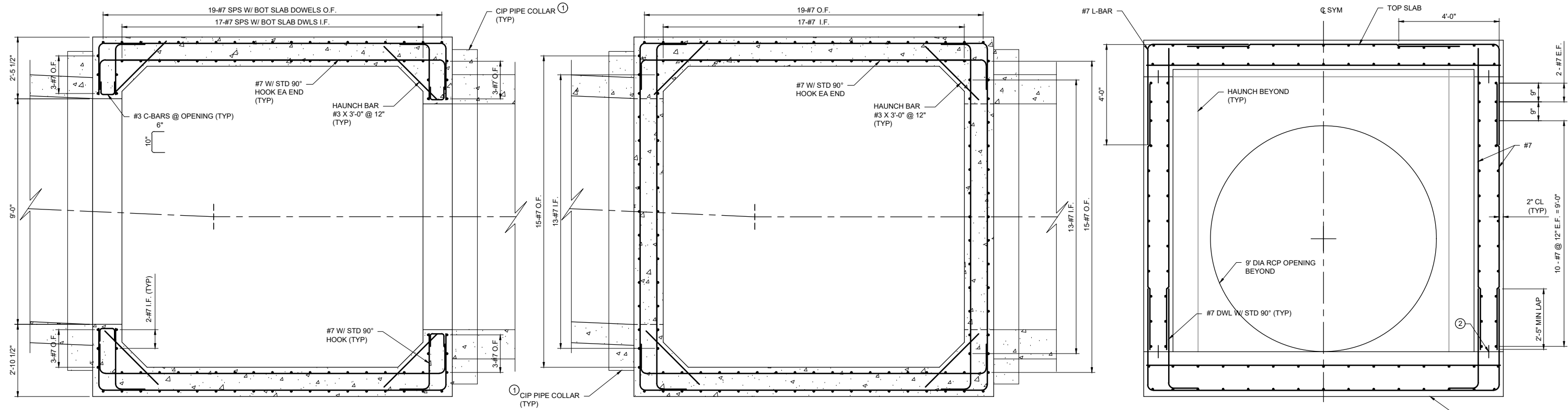
4 SECTION: BOTTOM SLAB REINFORCEMENT

0 1 2 3 4 5
SCALE

- NOTES:**
- 1 REINFORCEMENT IN KEY NOT SHOWN FOR CLARITY.
 - 2 PVC WATERSTOP: GREENSTREAK TYPE 781. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE 2" CLEARANCE AT PIPE OPENING.
 - 3 VERTICAL WALL BAR SPACING TO MATCH DOWEL SPACING INDICATED IN DETAIL 1, BOTTOM SLAB REINFORCEMENT.
 - 4 PROVIDE 2" CLEARANCE FOR BARS AT ALL OPENINGS. BARS MAY BE FIELD CUT IN FIELD PER REBAR FABRICATORS RECOMMENDATIONS.
 - 5 FOR DOWEL LOCATION AT KEY, SEE DRAWING C-11.

95% DRAFT
FOR REVIEW

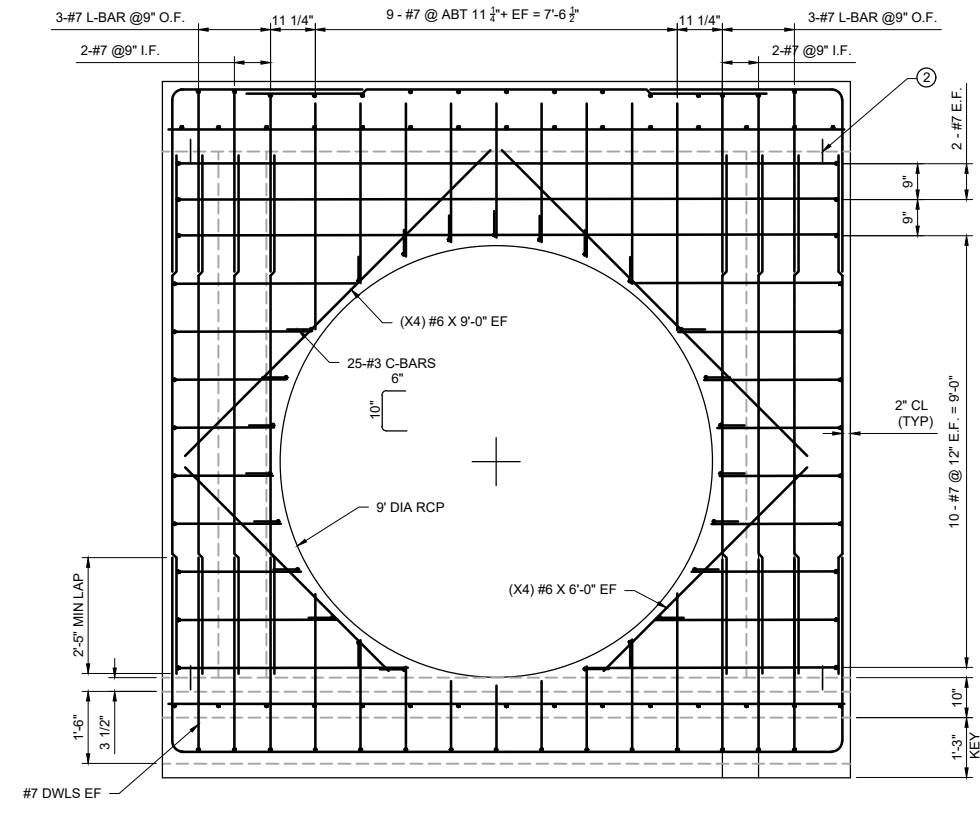
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				RELEASED TO/FOR: A B C 0 1 2 3 DATE RELEASED:				Corporate Headquarters: Minneapolis, Minnesota Ph: 1-800-632-2277		RAMSEY-WASHINGTON METRO WATERSHED DISTRICT		BELTLINE MISSISSIPPI RIVER BRANCH OUTFALL REPLACEMENT MANHOLE STRUCTURE CONCRETE REINFORCEMENT SECTIONS AND DETAILS		DWG. No. C-09 REV. No. B	
NO.	BY	CHK	APP.	DATE	REVISION DESCRIPTION										



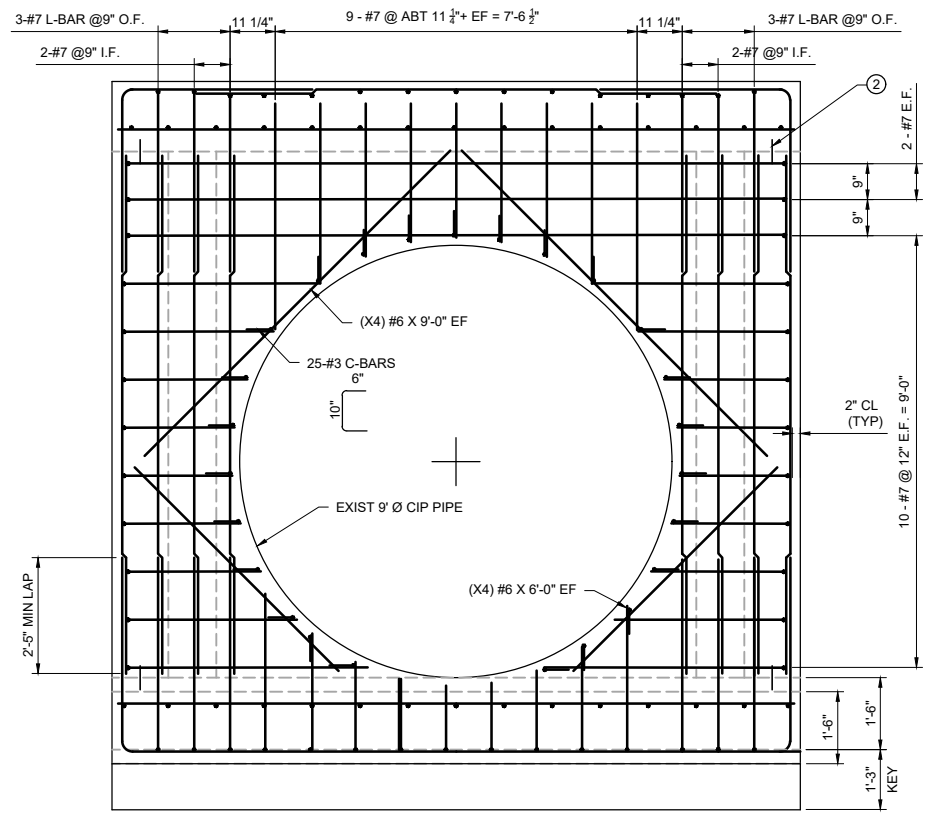
1 DETAIL: WALL REINFORCEMENT (SHOWN @ EL 689.40, CENTER OF PIPE OPENING)
 SCALE 0 1 2 3 4 5

2 DETAIL: WALL REINFORCEMENT (SHOWN @ EL 694.73, ABOVE PIPE OPENING)
 SCALE 0 1 2 3 4 5

3 SECTION: WALL REINFORCEMENT
 C-10 SCALE 0 1 2 3 4 5



4 SECTION: FRONT WALL REINFORCEMENT (RIVER-SIDE OF MANHOLE)
 C-10 SCALE 0 1 2 3 4 5



5 SECTION: WALL REINFORCEMENT (UPSTREAM SIDE OF MANHOLE)
 C-10 SCALE 0 1 2 3 4 5

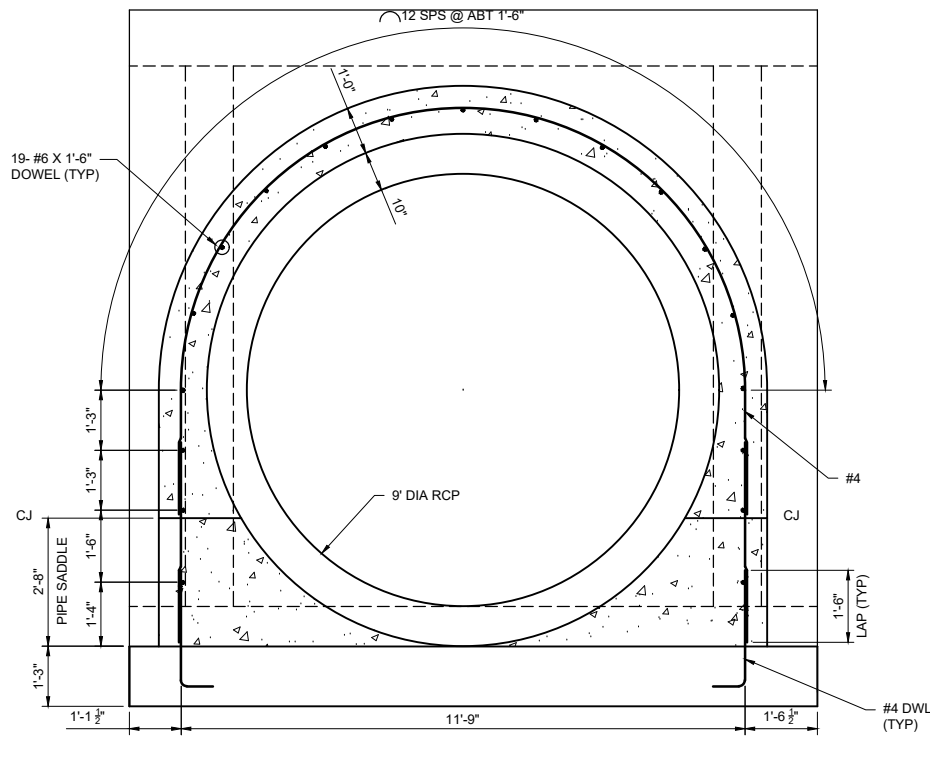
- NOTES:
- 1 FOR CONCRETE PIPE COLLAR REINFORCEMENT, WATERSTOP, AND DOWELS, SEE DRAWING C-11.
 - 2 PVC WATERSTOP: GREENSTREAK TYPE 781. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE 2" CLEARANCE AT PIPE OPENING.

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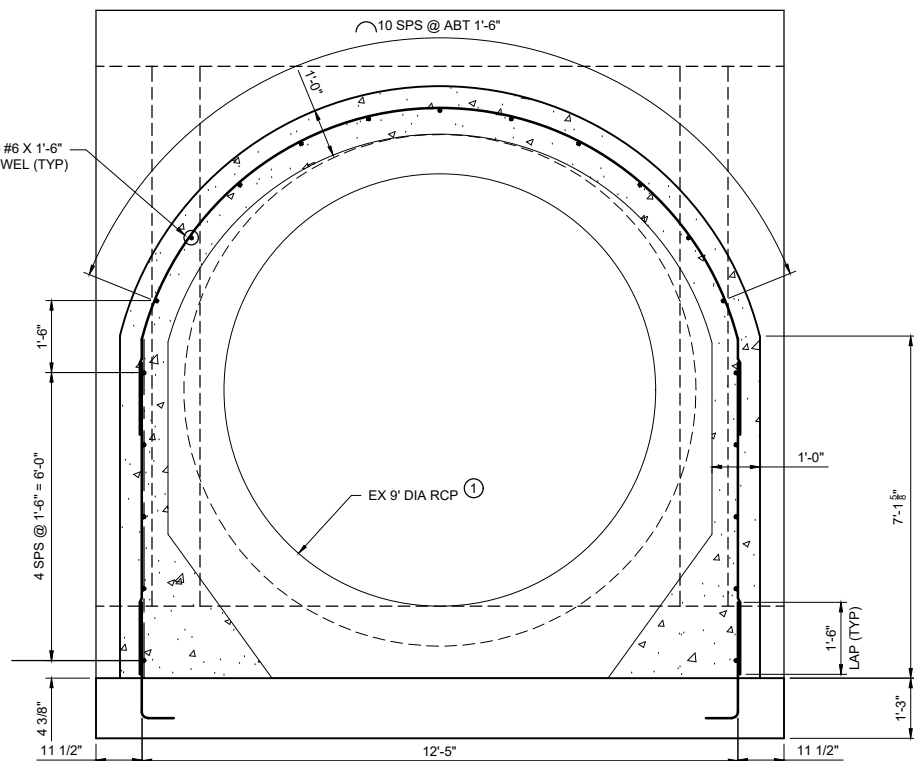
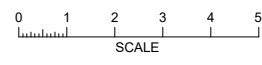
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NO.	BY	CHK	APP.	DATE	REVISION DESCRIPTION	A	B	C	0	1	2	3								

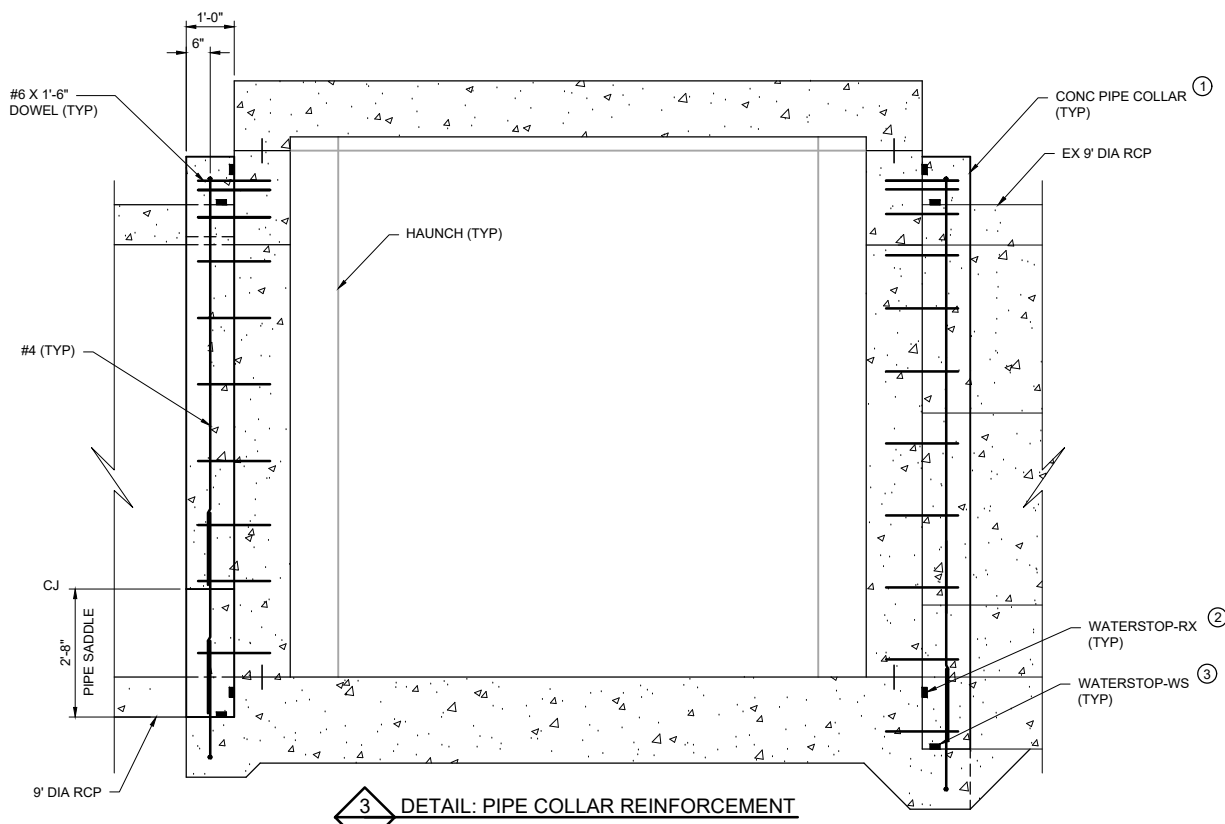
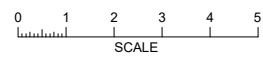
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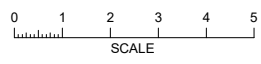
1 SECTION: PIPE COLLAR (RIVER SIDE OF MANHOLE)



2 SECTION: PIPE COLLAR (UPSTREAM SIDE OF MANHOLE)



3 DETAIL: PIPE COLLAR REINFORCEMENT



NOTES:

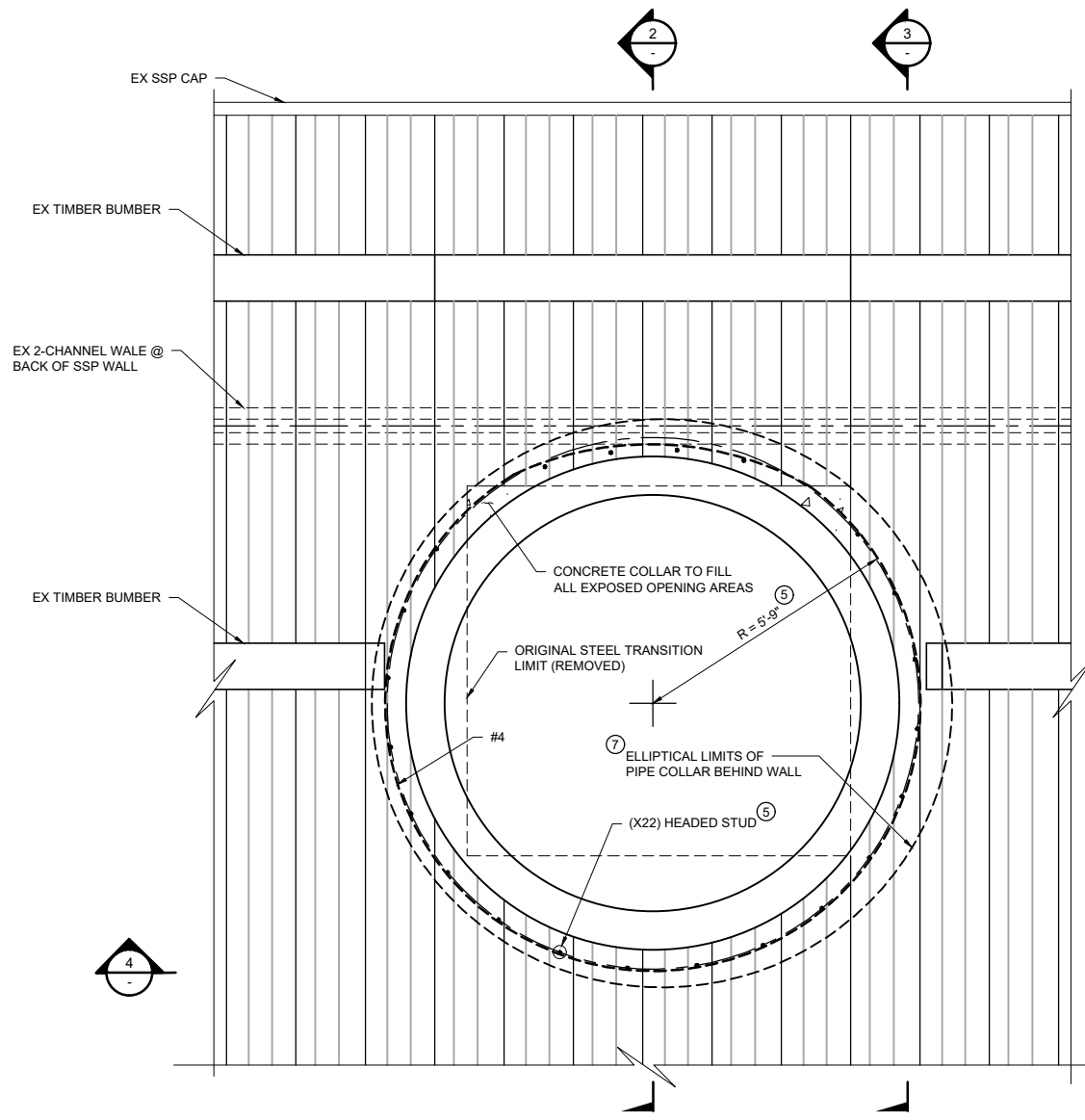
- ① DRAWINGS FOR EXISTING 9' DIA RCP PIPE ARE NOT AVAILABLE WITHIN PROJECT LIMITS. ASSUMED PIPE GEOMETRY SHOWN ON DRAWING C-02 IS BASED ON PIPE SECTION FROM BELTLINE DRAWINGS FOUND ELSEWHERE.
- ② WATERSTOP-RX: CETCO RX-101 OR EQUAL. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- ③ WATERSTOP-WS: WS-30 WATERSTOP (PRESS-SEAL OR EQUAL). SECURE TO PIPE CIRCUMFERENCE PER MANUFACTURER'S RECOMMENDATIONS.

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					RELEASED TO/FOR: A B C 0 1 2 3 DATE RELEASED:		DWG. No. C-11 REV. No. B							

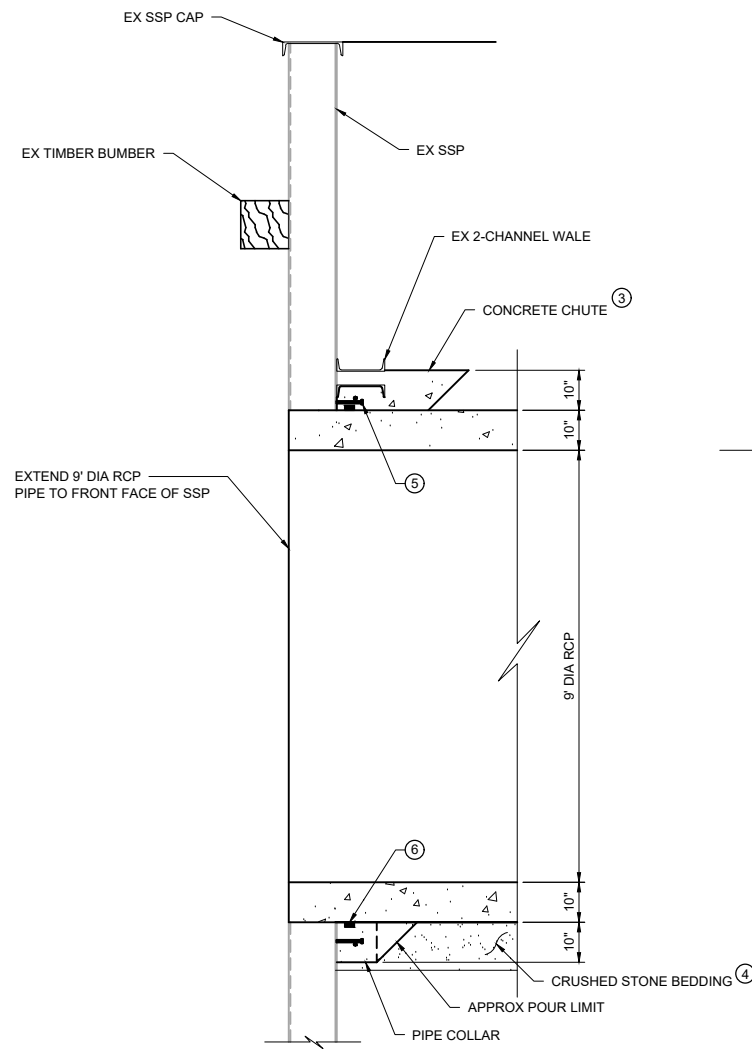


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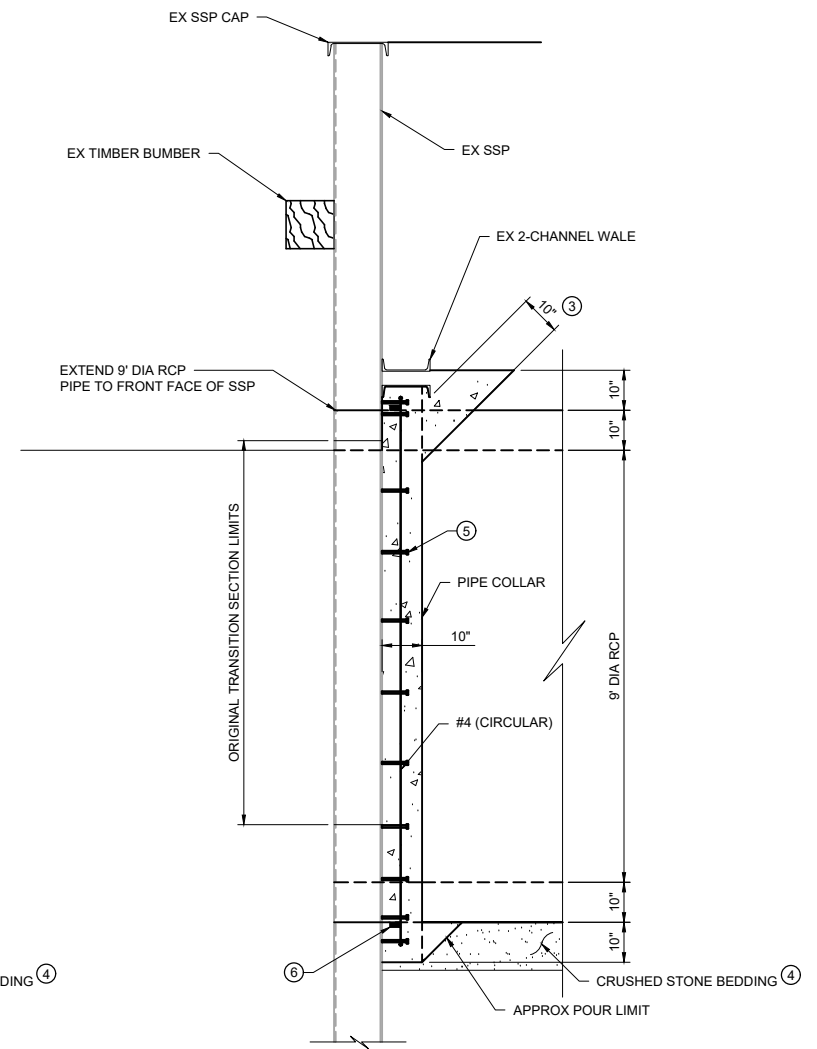
1 DETAIL: PIPE COLLAR @ SHEET PILE WALL (ELEVATION RIVER SIDE) **1** **2**

0 1 2 3 4 5
SCALE



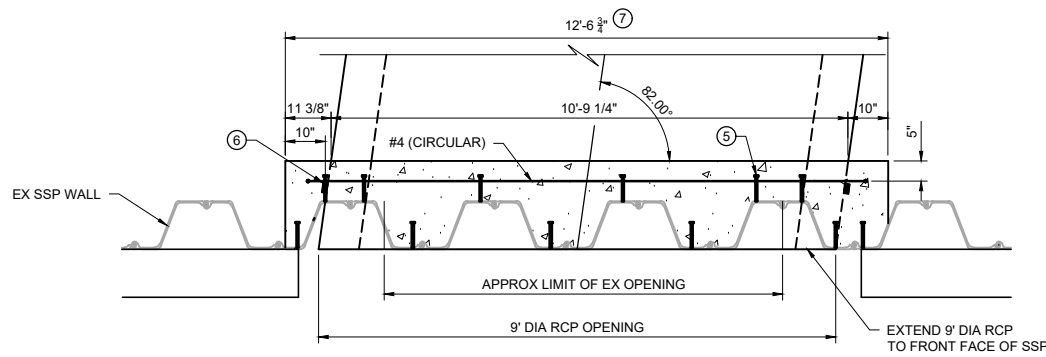
2 SECTION: PIPE COLLAR **1** **2**

0 1 2 3 4 5
SCALE



3 SECTION: PIPE COLLAR **1** **2**

0 1 2 3 4 5
SCALE



4 SECTION: PIPE COLLAR REINFORCEMENT **1** **2**

0 1 2 3 4 5
SCALE

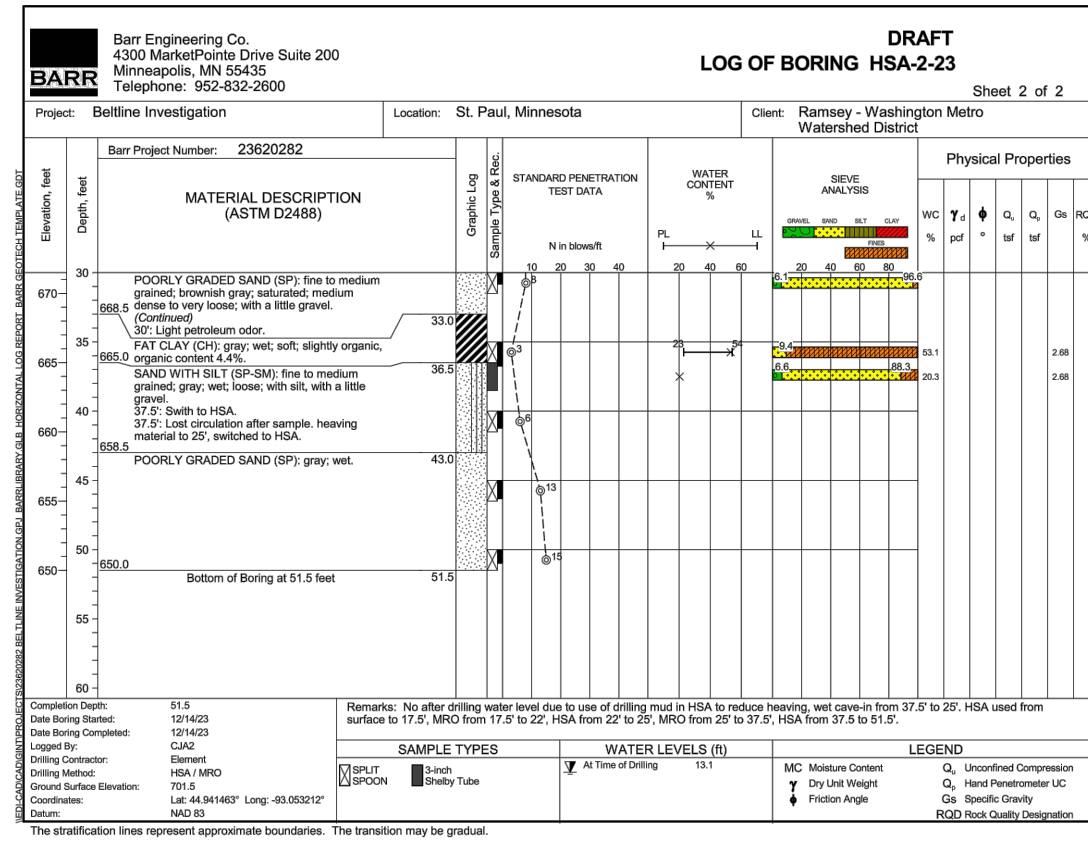
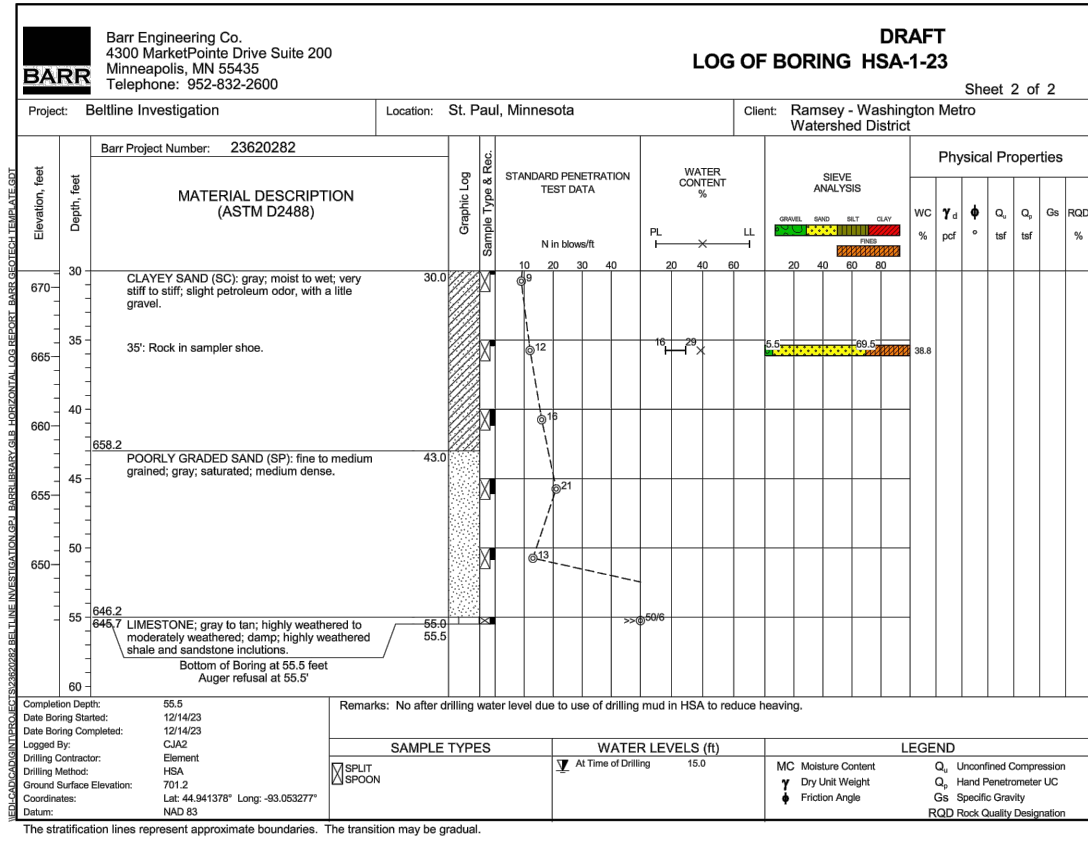
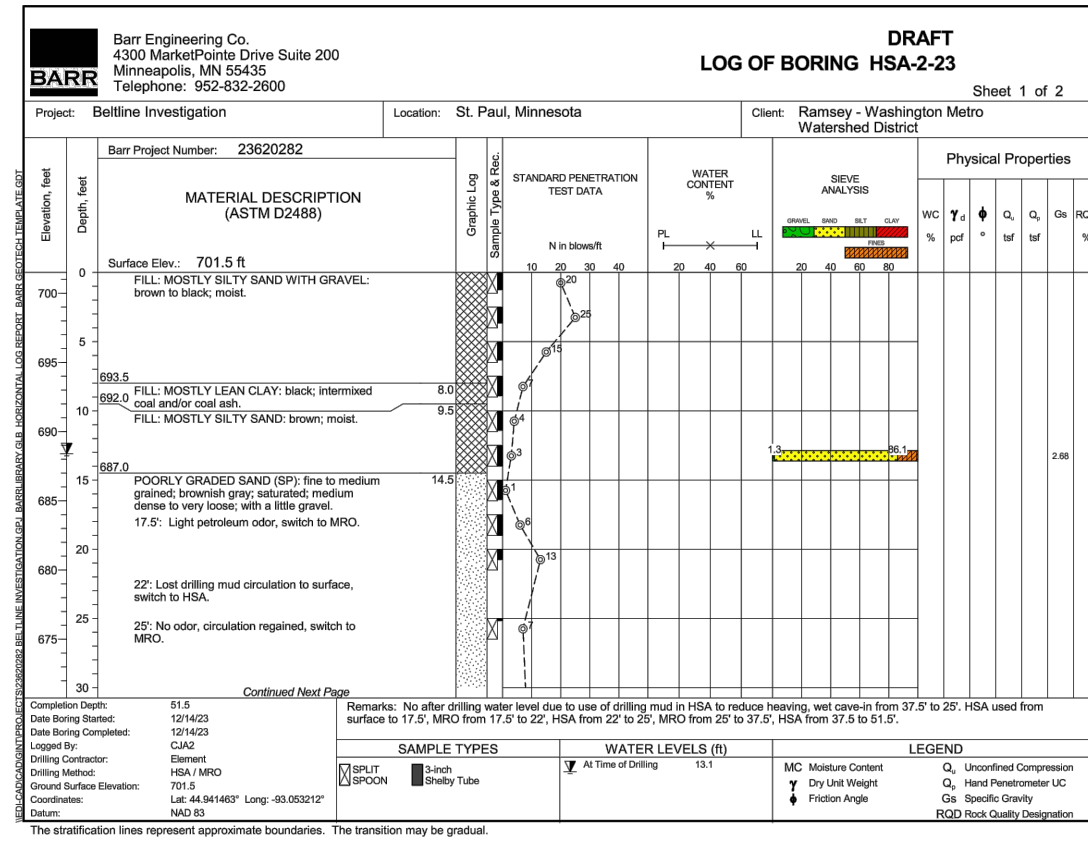
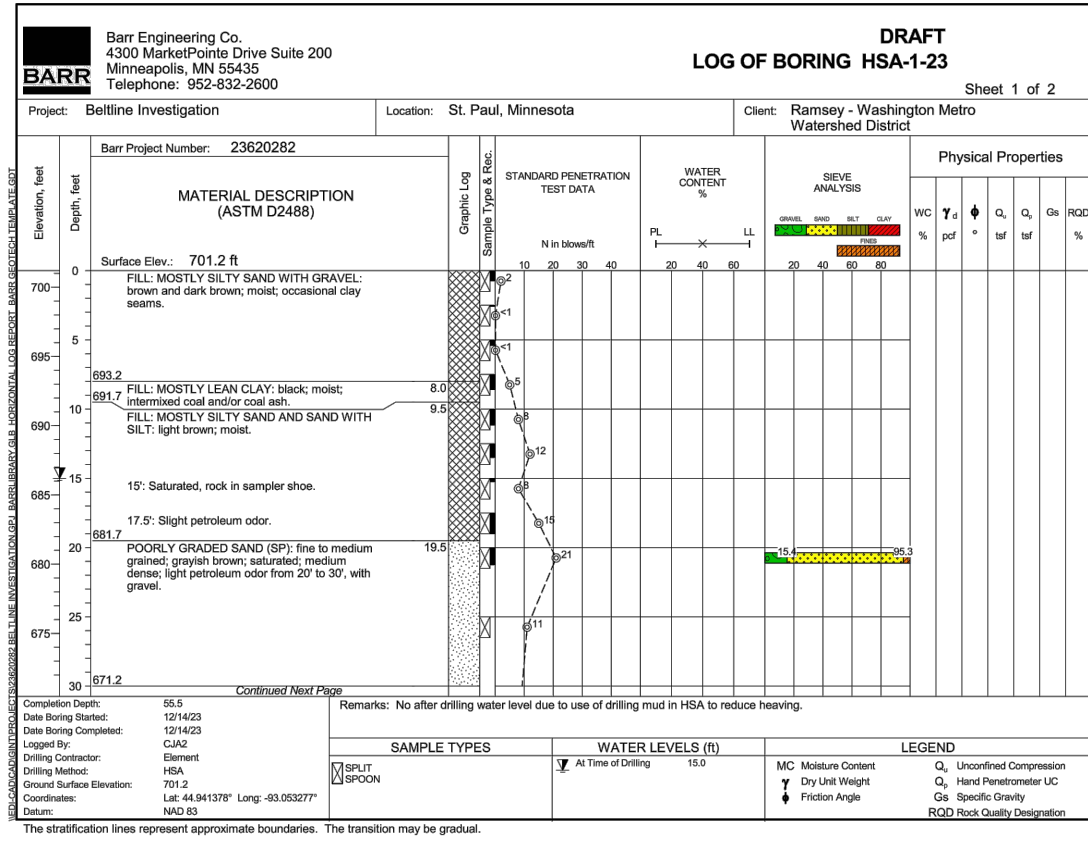
NOTES:

- ① FOR EXISTING CONDITIONS AND REMOVALS @ EXISTING SHEET PILE WALL, SEE DRAWINGS C-02 THROUGH C-04.
- ② FOR ORIGINAL CONSTRUCTION DWG OF SHEET PILE BULKHEAD DETAILS, SEE REFERENCE DRAWING NO. 92-5 FROM GEORGE LLOYD LEVIN ENGINEERS DATED 9-19-60 (DRAWING R-01).
- ③ PROVIDE CHUTE AT TOP OF COLLAR TO ALLOW PLACEMENT BELOW EXISTING WALE & CONCRETE PLACEMENT AROUND PIPE. ENLARGE SIZE OF CHUTE IF NECESSARY.
- ④ FOR 9' DIA RCP PROFILE & BEDDING, SEE DRAWING C-05.
- ⑤ NELSON WELDED HEADED STUD: TYPE S3L 3/4" X 6 3/8". INSTALL @ CENTER LINE OF CONCRETE COLLAR AT APPROX. 1'-6" SPACING ALONG ARC OF RADIUS SHOWN. ADJUST STUD LOCATIONS AS REQUIRED TO MISS SHEET PILE INTERLOCKS, FILLETS, & EXISTING WALE. CLEAN & PREPARE SHEET PILE SURFACE TO RECEIVE STUD AND WELD ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- ⑥ WATERSTOP-WS: WS-30 WATERSTOP (PRESS-SEAL OR EQUAL). SECURE TO PIPE CIRCUMFERENCE PER MANUFACTURER'S RECOMMENDATIONS.
- ⑦ CONCRETE COLLAR TO BE 10" MINIMUM THICKNESS. CONTRACTOR MAY INCREASE OUTER LIMITS BEYOND ELLIPTICAL SHAPE INDICATED ON DRAWINGS FOR EASE OF CONSTRUCTION.

95% DRAFT
FOR REVIEW

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				RELEASED TO/FOR: A B C 0 1 2 3 DATE RELEASED:				SHEET PILE INTERFACE - SECTIONS AND DETAILS		BELTLINE MISSISSIPPI RIVER BRANCH OUTFALL REPLACEMENT		OUTFALL	





1 BORING: HSA-1-23

2 BORING: HSA-2-23

95% DRAFT FOR REVIEW

CADD USER: Alvo C. Bitterman FILE: M:\DESIGN\23620282\40_X01_SOIL BORINGS.DWG PLOT SCALE: 1:2 PLOT DATE: 5/29/2024 3:56 PM
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 BARR M:\Users\alvo\OneDrive\Documents\23620282\BARR Logo.rvt

NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINTED NAME: _____
 SIGNATURE: _____
 DATE: _____ LICENSE # _____

CLIENT	04/17/24	05/17/24	05/29/24			
BID						
CONSTRUCTION						
RELEASED TO/FOR	A	B	C	0	1	2
DATE RELEASED						

BARR
 Project Office:
 BARR ENGINEERING CO.
 4300 MARKETPOINTE DRIVE
 SUITE 200
 MINNEAPOLIS, MN 55435
 Corporate Headquarters:
 Minneapolis, Minnesota
 Ph: 1-800-632-2277
 Fax: (952) 832-2601
 www.barr.com

Scale	AS SHOWN
Date	03/05/2024
Drawn	ADB2
Checked	GWB
Designed	JAW2
Approved	JAW2

**BELTLINE MISSISSIPPI RIVER BRANCH
 OUTFALL REPLACEMENT**
BORING LOGS

BARR PROJECT No.	23620282.40
CLIENT PROJECT No.	
DWG. No.	X-01
REV. No.	C

Request for Board Action

Board Meeting Date: June 5, 2024

Agenda Item No: 7E

Preparer: Tina Carstens, Administrator

Item Description: Cottage Place Wetland Restoration Bid Award

Background:

At the May 2024 meeting, the board was presented with the plans and cost estimate for the Cottage Place Wetland Restoration project. The board directed staff to finalize the design and bid documents and solicit bid proposals. The engineer's opinion of probably cost for this project ranged from \$473,000 to \$547,000.

This project was planned through our Wetland Restoration program and will be funded through this project fund.

The bid opening occurred on May 23rd. The results are attached. The managers should consider awarding the project to the lowest responsive and responsible bidder.

Applicable District Goal and Action Item:

Goal: Achieve healthy ecosystems – The District will manage water and related natural resources to create and preserve healthy ecosystems.

Action Item: Lead ecological restoration projects to improve water resources and associated upland habitat.

Staff Recommendation:

Staff recommends the board award the project to the recommended responsive and responsible bidder with the conditions stated in the memo and below.

Financial Implications:

This project will be funded from the district's Wetland Restoration Fund where there are sufficient funds available.

Board Action Requested:

Contingent upon Barr and District staff's satisfaction with the qualification evidence provided by the apparent lowest responsible and responsive bidder, Dimke Excavating, award the project to Dimke Excavating at the bid price of \$314,197.25 and direct staff to request the required bonds and insurance information and execute the contract for the work.

Memorandum

To: RWMWD Board of Managers
From: Brendan Dougherty and Erin Anderson Wenz
Subject: Cottage Place Wetland Restoration - Recommendation to Award Project
Date: May 29th, 2024
c: Paige Ahlborg and Tina Carstens

The goal of the Cottage Place Wetland Restoration project, located within Shoreview, is to clean up dumped debris, manage invasive species, and stabilize soils to improve habitat and water quality. The project area consists of approximately 1.4 acres of existing wetland and 3.6 acres of degraded woodland.

The restoration of the degraded woodland and wetlands within the project area will be completed as a partnership between RWMWD, the City of Shoreview and St. Odelia Catholic Church.

The Cottage Place wetland has lost much of its ecological value and stormwater treatment capacity due to changes within the watershed and direct alterations by people. A portion of the wetland has been filled with bituminous asphalt, concrete and possibly other unknown materials that are visible as distinct debris piles overgrown with cottonwood and boxelder trees. The tree canopy is nearly closed and is dominated by short-lived generalist native species such as cottonwood, box elder, American elm, and green ash (evidence of emerald ash borer (EAB) observed). The understory and herbaceous ground layer are dominated by non-native invasive species such as buckthorn, reed canary grass, burdock, and garlic mustard. Exposed soil is present over a large portion of the site (50-70%) with sparse pockets of invasive herbaceous ground cover species throughout.

The City of Shoreview and St. Odelia Catholic Church are eager to partner with RWMWD to remove the surface debris, invasive species, and to restore and stabilize the site with a diversity of native grasses and wildflowers that provide habitat for pollinators, songbirds, and other wildlife. When complete, the wetland will be restored to resemble a diverse periodically flooded wet meadow habitat type.

The site layout and grading plan were developed to maximize the footprint of the existing wetland and to clean up surface debris that is present as a result of historic dumping and filling. The bottom contour of the existing wetland areas will be expanded as much as possible within the construction limits to reduce channelization and to allow stormwater to spread out and infiltrate over a larger area. Excavated soil and smaller inert debris material will be consolidated on the east side of the site (location of most extensive historic dumping) and will be covered with topsoil to support native savanna species. Any larger debris (greater than 3"), metal, and glass encountered will be disposed of offsite at a licensed landfill.

A culvert will be installed on an existing berm near the north-west corner of the site to allow stormwater from large events to equalize between the two northern wetlands before flowing south through another improved culvert near the center of the site. These culvert improvements are designed to minimize erosion during large storm events and to reduce the likelihood of the structures clogging due to debris.

Invasive species on-site will be eradicated prior to final seeding. The site will then be restored using three different native plant mixes (depending on growing conditions). The mixes contain a diverse number of grass, sedge, and wildflower mixes to account for the various moisture and sunlight conditions expected. Containerized tree and shrub species were selected to provide habitat for native bird and pollinator species. The proposed tree and shrubs were placed near the edges of the site to help screen the church parking lot from the nearby residents and for long term maintenance considerations (easier to mow and spray invasive species if shrubs and trees are localized to the edges of the site rather than throughout).

The RWMWD Board of Managers authorized bidding for the Cottage Place Wetland Restoration at their May 1st, 2024 meeting. Following the Board's authorization, the project was bid for two weeks between May 9 and May 23. Bids were opened on May 23 at a virtual bid opening. Five (5) bids were received and are listed in Table 1.

Table 1. Summary of Bids Received for Cottage Place Wetland Restoration

Number	Bidder	Total Base Bid Entered on the Bid Form
1	Dimke Excavating, Inc.	\$ 314,197.25
2	Sunram Construction, Inc.	\$ 369,814.00
3	Bituminous Roadways Inc.	\$ 423,004.40
4	Urban Companies	\$ 511,963.00
5	Vada Contracting, LLC	\$ 625,122.50
Engineer's opinion of probable cost range was \$473,000 to \$547,000 (estimated accuracy range of -5% to +10%).		

The engineer's opinion of probable cost was based on average bid prices from recent similar projects. The engineer's opinion of probable cost range was \$473,000 to \$547,000 (estimated accuracy range of -5% to +10%) and aligns with the 4th and 5th total base bid prices in Table 1.

RWMWD does not have previous civil construction experience with Dimke Excavating, Inc., the lowest bidder listed in Table 1. As such, on May 28th, Barr requested qualification evidence from the lowest apparent bidder, Dimke Excavating, per Article 4 of Instructions to Bidders in the specifications. Requested information included qualifications outlining project experience in the past 5 years, a description of present commitments, a list of intended subcontractors, and a summary of available equipment, key personnel, and resources. Once qualifications are received, Barr will review them and will contact the project experience references listed.

Barr Engineering recommends that the RWMWD Board of Managers consider the following motion:

Contingent upon Barr and District staff's satisfaction with the qualification evidence provided by the apparent lowest responsible and responsive bidder, Dimke Excavating, award the project to Dimke

Excavating at the bid price of \$314,197.25 and direct staff to request the required bonds and insurance information and execute the contract for the work.

Next Steps

If the Board of Managers approves the motion, the following will be completed:

- Barr Engineering and RWMWD staff will review the qualification evidence provided by Dimke Excavating.
- An Authorized Representative will sign the Notice of Award to be sent to the successful bidder
- Successful bidder will provide the following information:
 - Fully executed Form of Agreement
 - Performance Bond and Payment Bond
 - Certificate of Insurance verifying adequate insurance per the bidding documents
- Barr and Galowitz-Olsen will review the submittals and, if necessary, request modifications.
- Barr will coordinate with the successful bidder regarding the construction schedule and schedule a preconstruction meeting.
- The Form of Agreement will be signed by all parties.
- Notice to Proceed is anticipated to be issued in July 2024.
- All work shall be substantially complete by July 1st, 2025.
- The vegetation warranty will extend one year for live plants post-substantial completion, estimated through July 2026 (depending on when plants are installed). A three-year vegetation establishment and maintenance period will extend through October of 2027. After the establishment period is complete and Final Acceptance has been issued, RWMWD will take over vegetation maintenance to align with the District's other vegetation maintenance contracts.

* * * * *

New Reports/ Presentations

* * * * *



Addressing Internal Loading in District Lakes:

1. Kohlman Lake
2. Wakefield Lake



June 5, 2024

Ongoing Efforts

1. Wakefield Lake Sediment Management Analysis, 2018

- ❖ Dredging feasibility, cost, benefits

2. 2020 Internal Load Analysis of Shallow and Deep Lakes, November 2020

- ❖ Coring and fractionation of 7 Lakes

3. Cost Benefit-Analysis for Internal Loading Control Options for Bennett and Wakefield Lake, December 2022

- ❖ Alum (aluminum)

- ❖ Phoslock

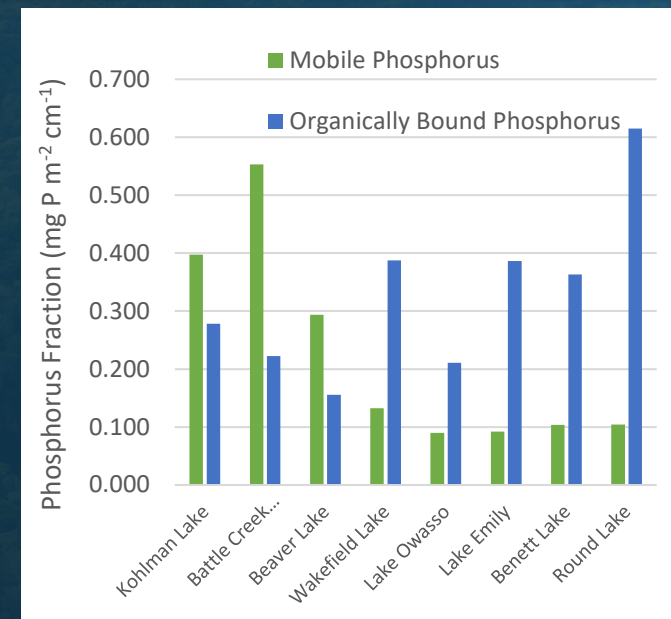
- ❖ Dredging

- ❖ Aquatic plant harvesting

- ❖ Direct oxygen injection

- ❖ Aeration

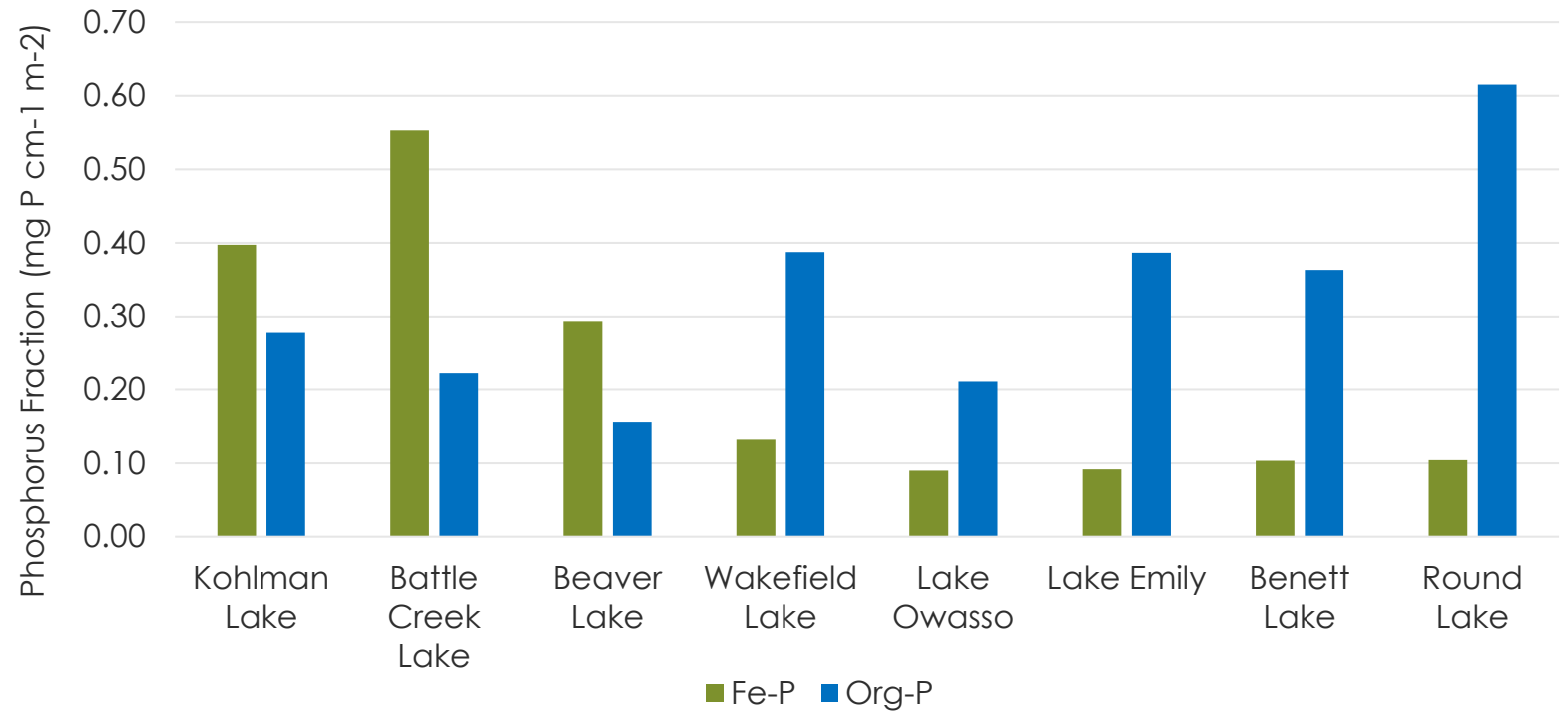
- ❖ Nano bubbles



Phosphorus Speciation



Comparison of Average Mobile and Organically-Bound Phosphorus Concentrations in Lake Bottom Sediment



Why Does Phosphorus Release Under Low Oxygen Conditions?

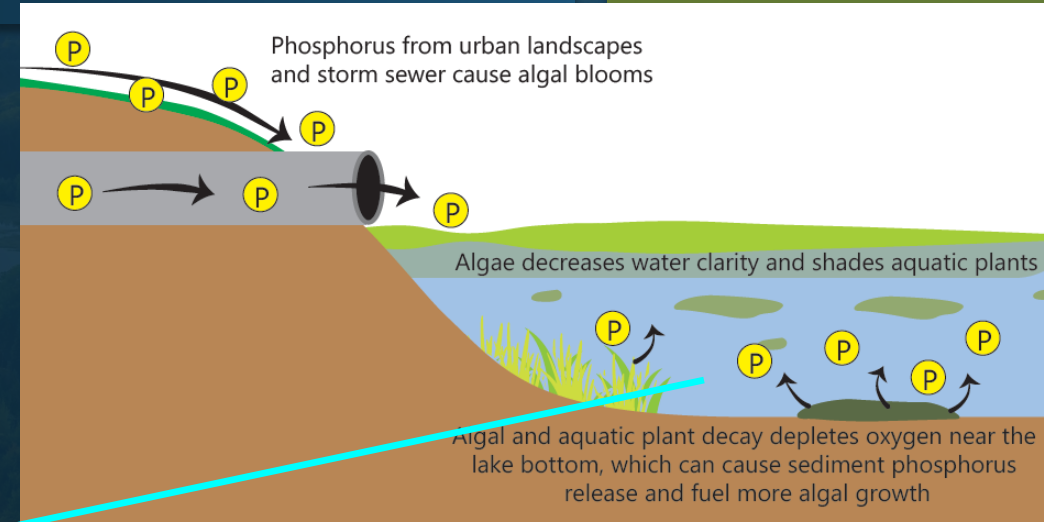


(insoluble)

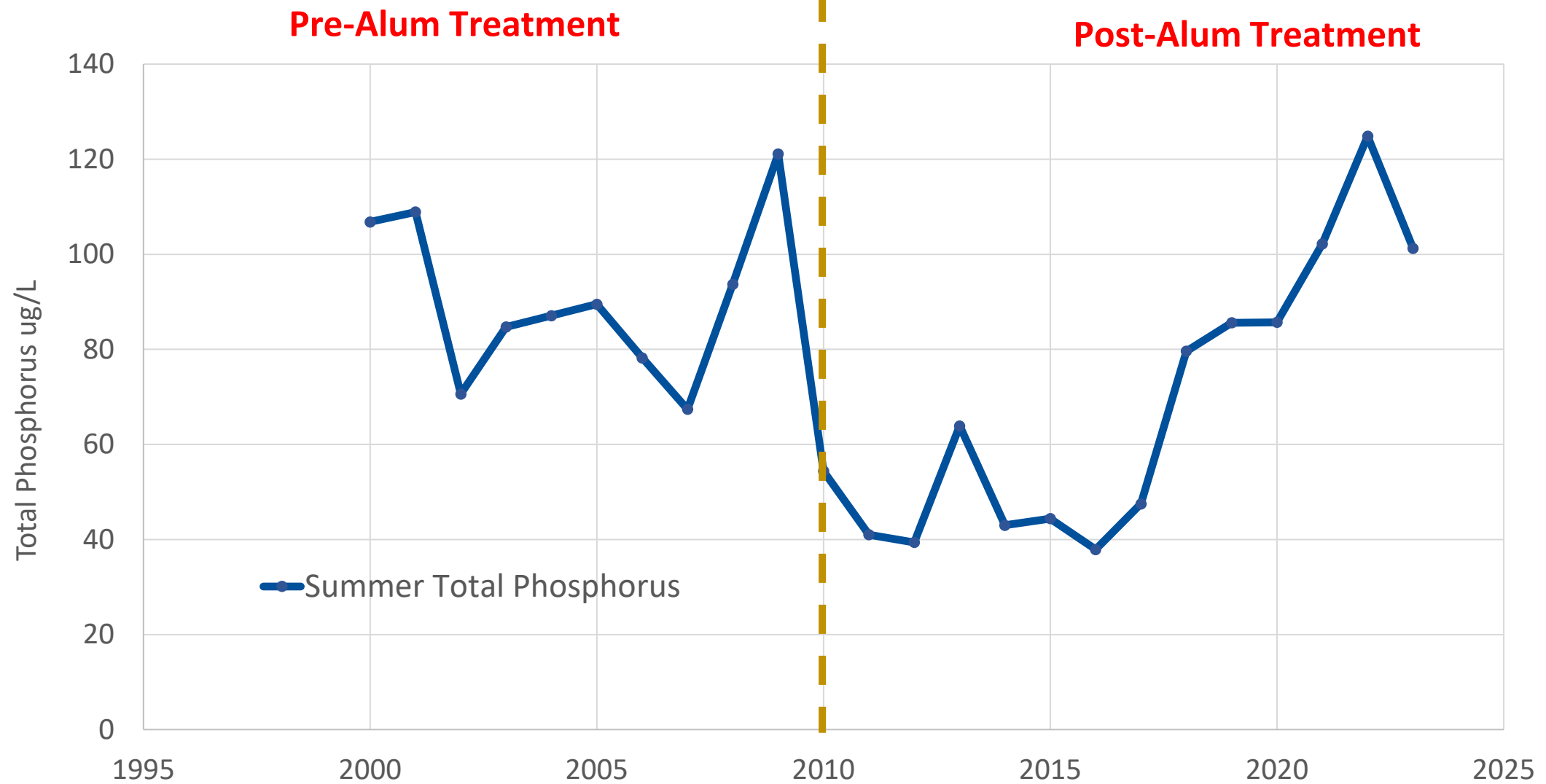


(soluble)

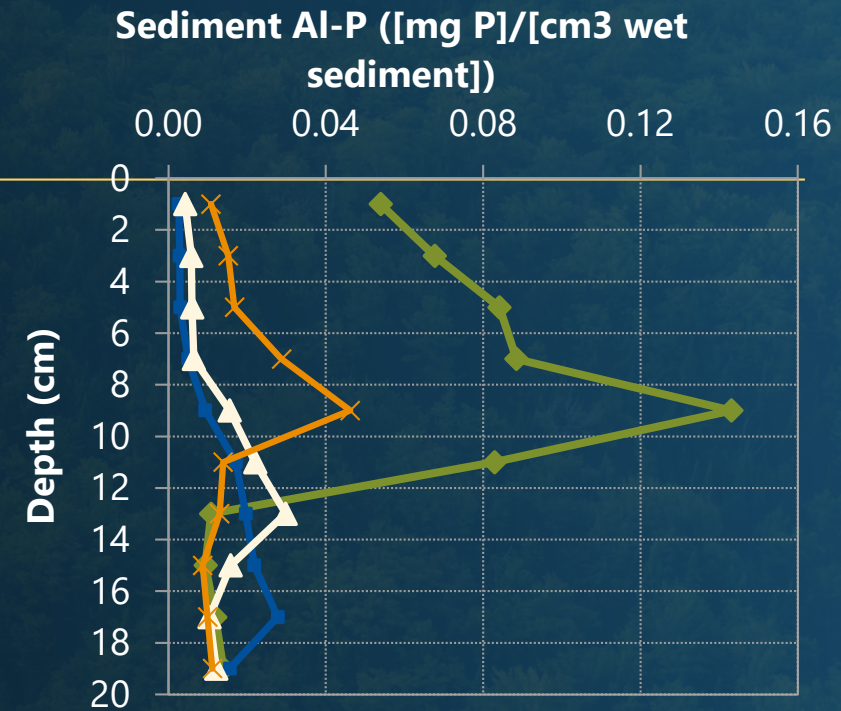
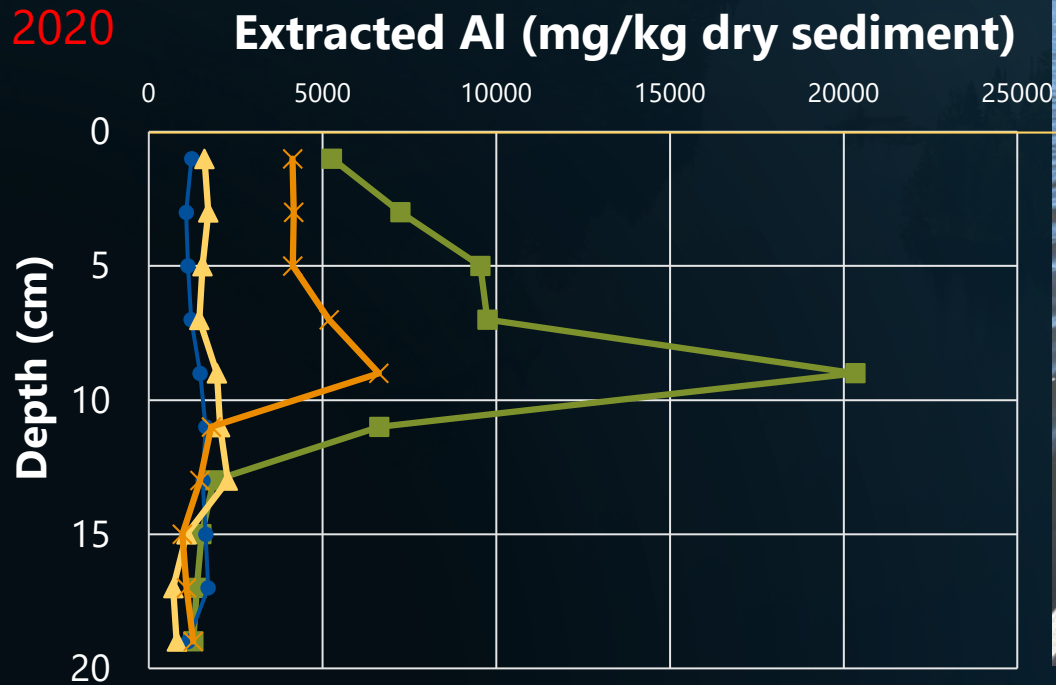
Fermentation
(enzymes)



Kohlman Lake

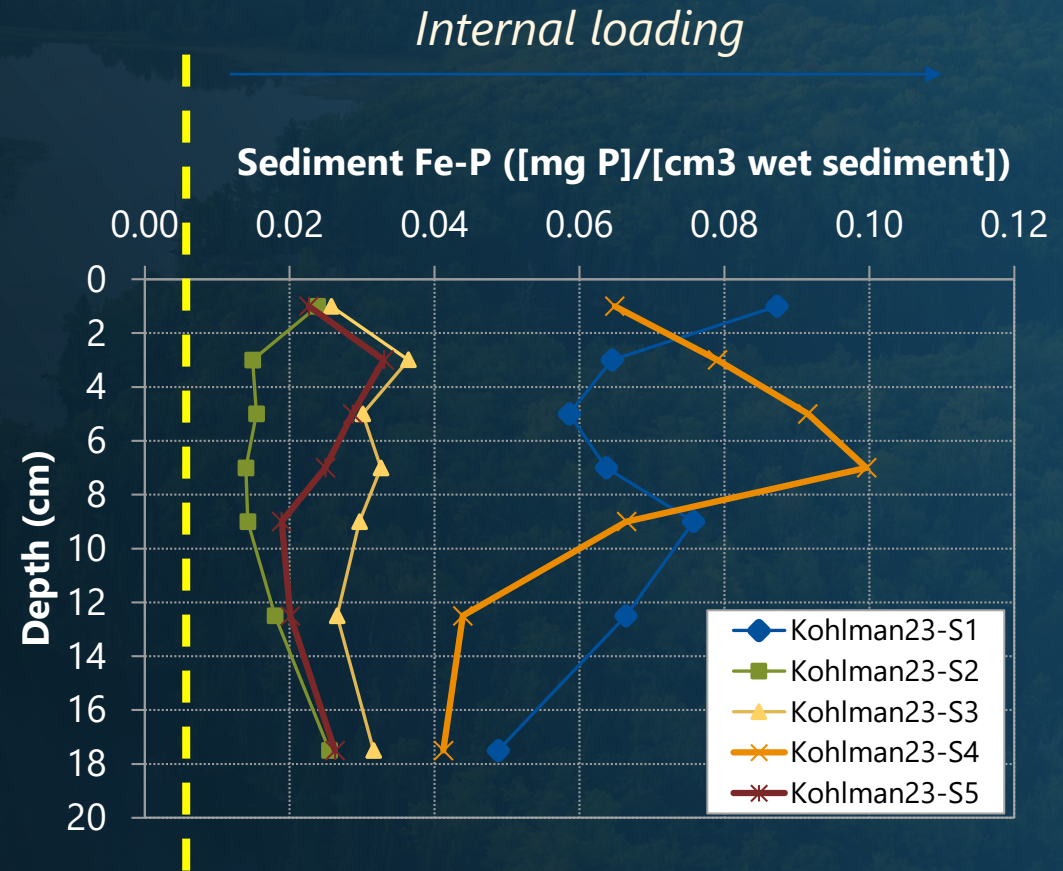
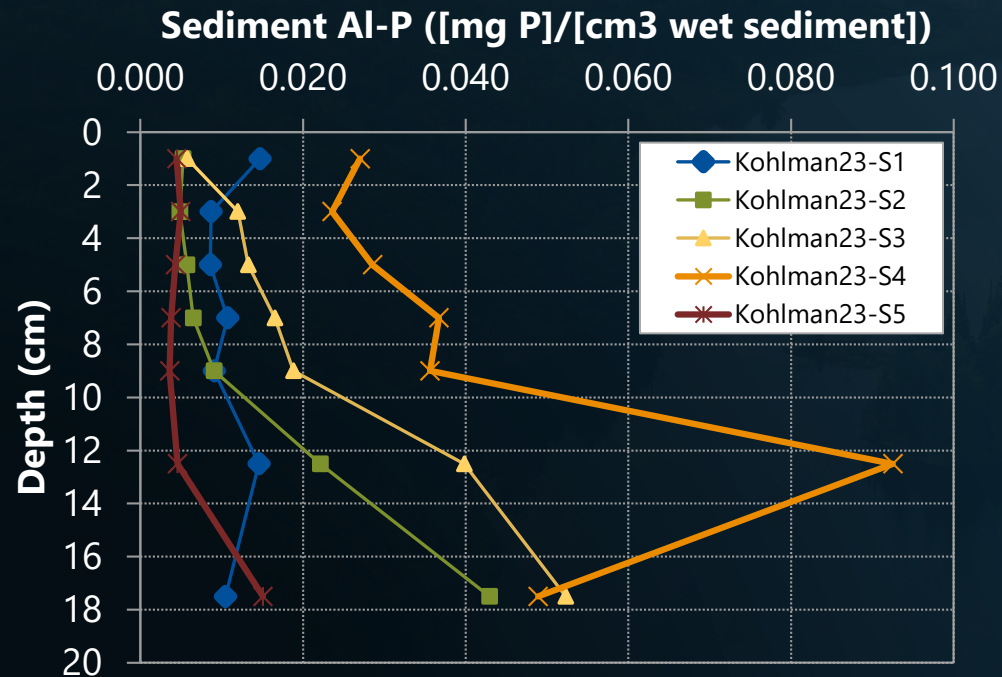


Evaluating the Kohlman Lake Alum Treatment Sediment in Kohlman Lake

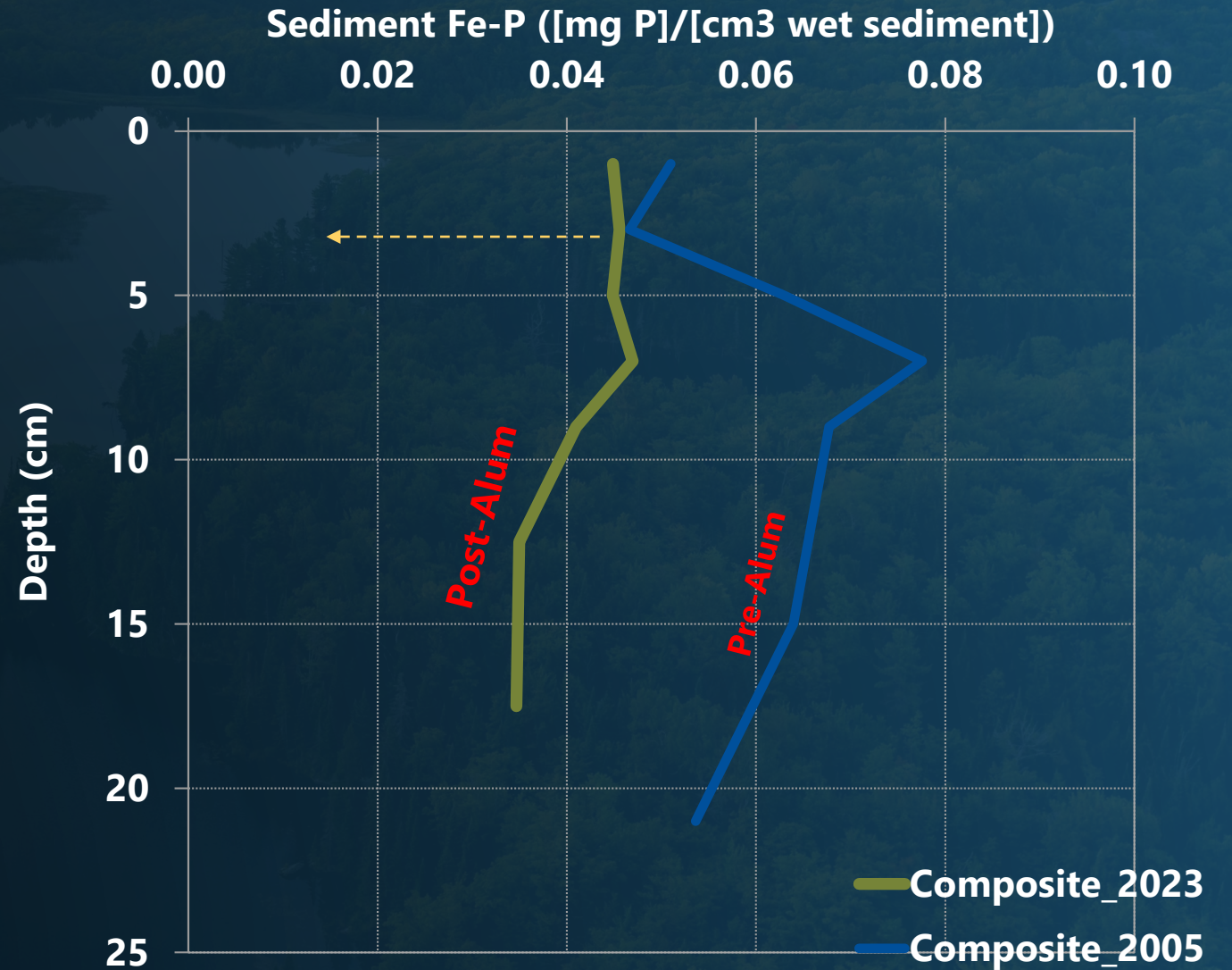


Evaluating the Kohlman Lake Alum Treatment Sediment in Kohlman Lake

2023

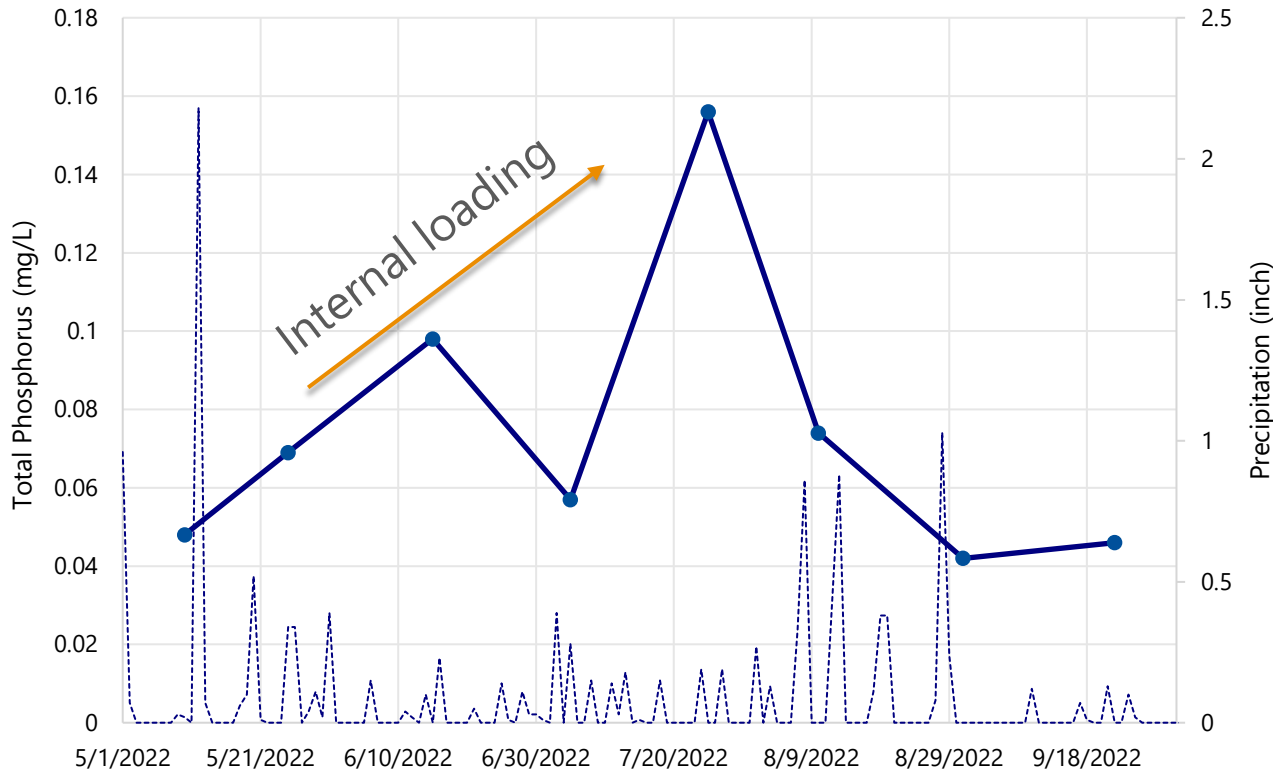


Repeat Alum Treatment of Kohlman Lake

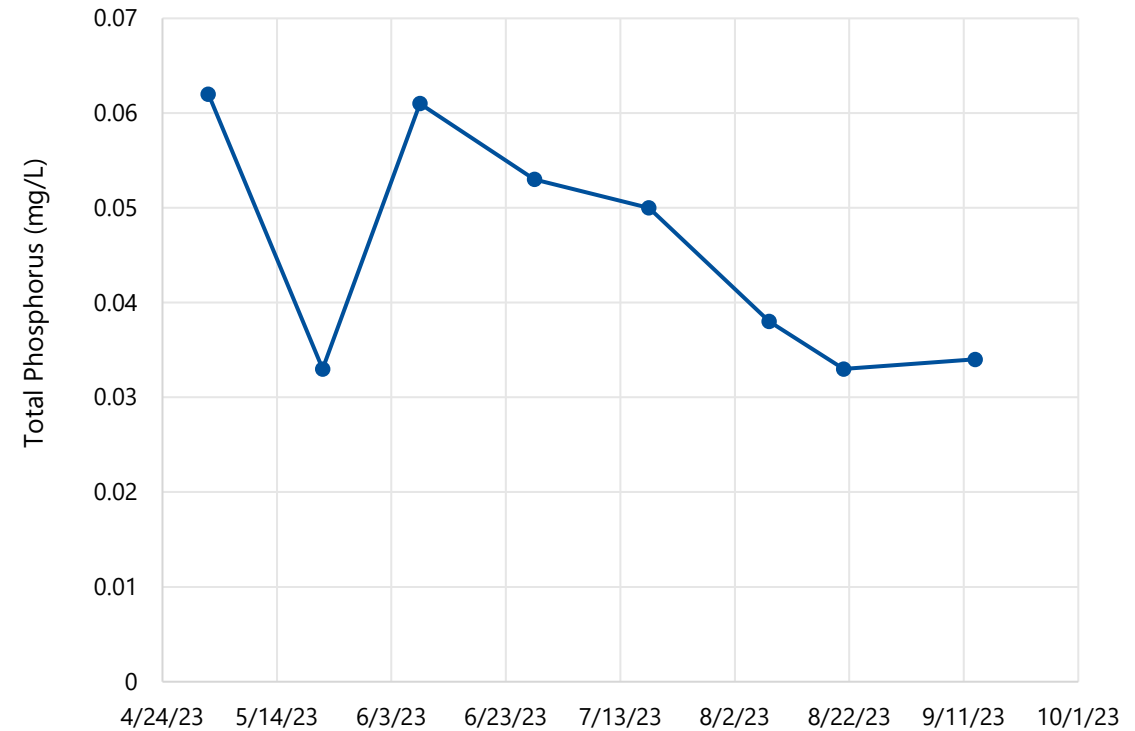


Wakefield Lake Clear Signature of Internal Loading

Surface Total Phosphorus-2022

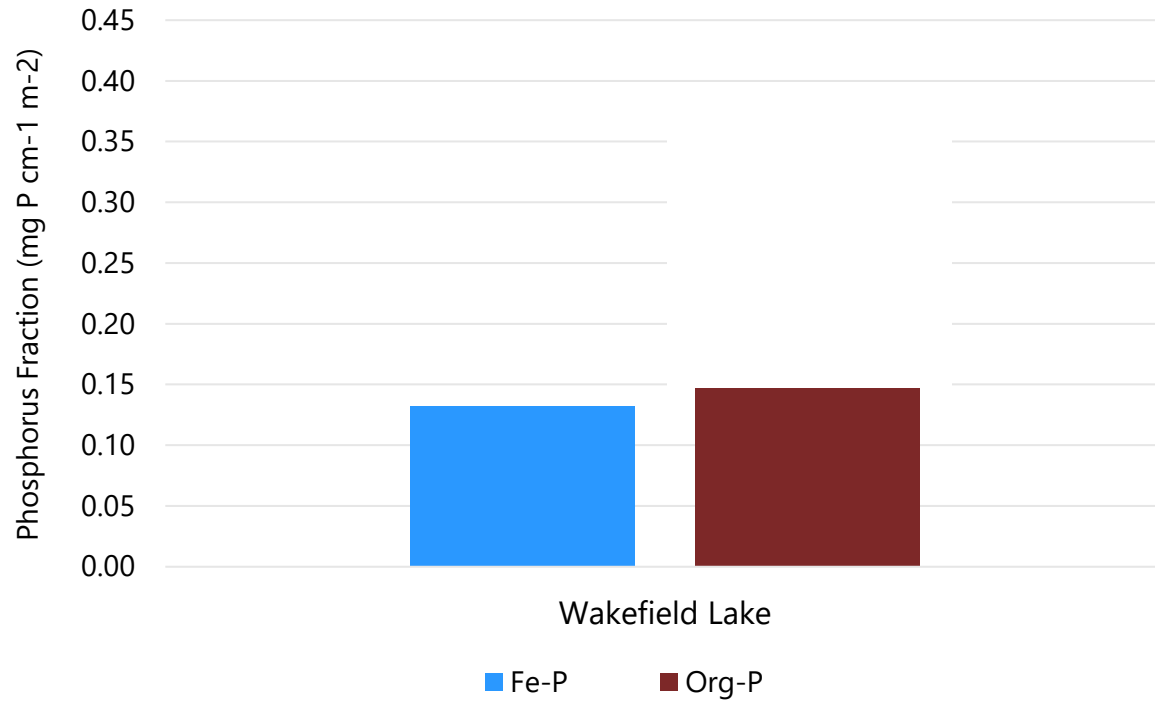


Surface Total Phosphorus-2023

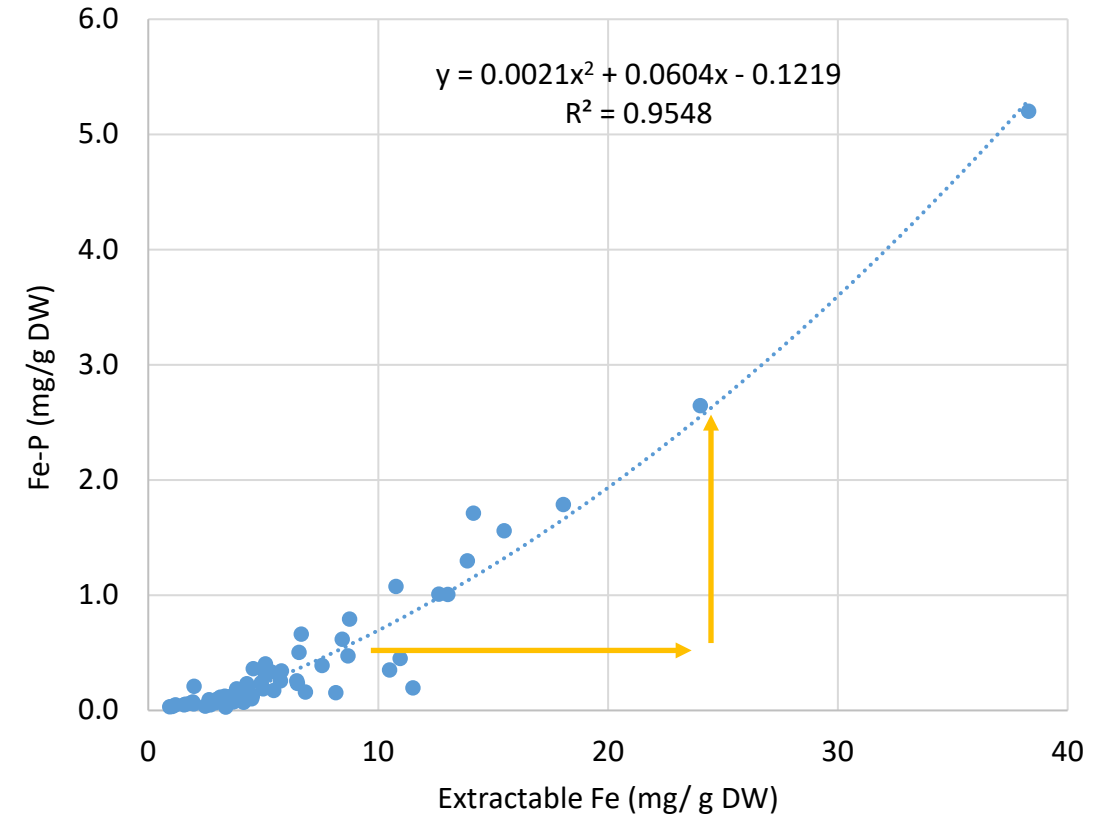


Sediment Phosphorus Type Determines Treatment Approach

Comparison of Average Mobile and Organically-Bound Phosphorus Concentrations in Lake Bottom Sediment



Extractable Iron to Fe-P in Sediment



Org-P (big) ---> Org-P (small) ---> P

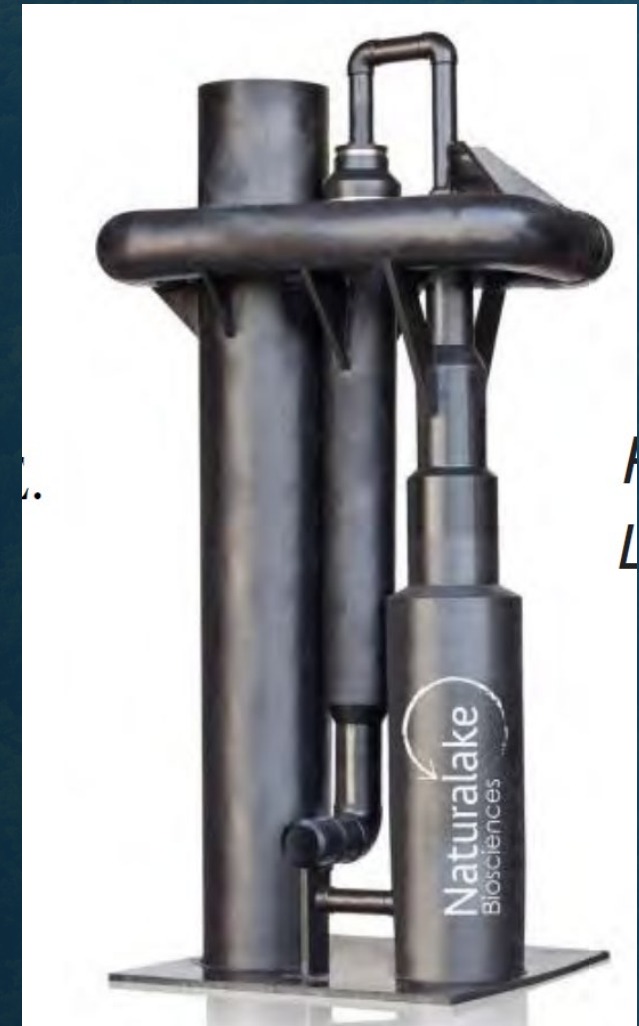
Wakefield Potential Internal Load Control Approach

Add Iron



+

Oxygen Saturation Technology

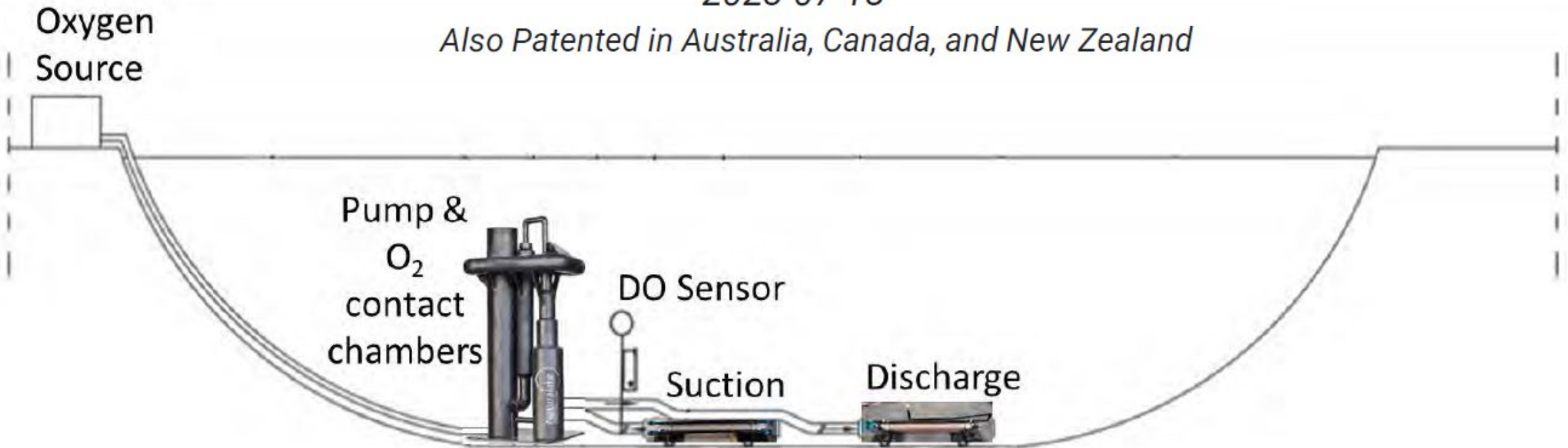


Oxygen Saturation Technology[®]

US Patent US3643403A

2023-07-18

Also Patented in Australia, Canada, and New Zealand



Conclusions / Discussion

- Recommend aluminum treatment of Kohlman Lake (spring of 2025)
- Wakefield internal loading control
 - Iron + direct oxygen system likely the best approach given Org-P in sediments
- What Additional Information is Needed?

Project work plan

Original date: May 23, 2024

Updated:

Project: Tanners Lake, Battle Creek Lake, and McKnight Basin Outlet Operation Plans

Project #: 23/62-1200.21 002 002

Project team:

RWMWD staff: Paige Ahlborg (project manager), Tina Carstens

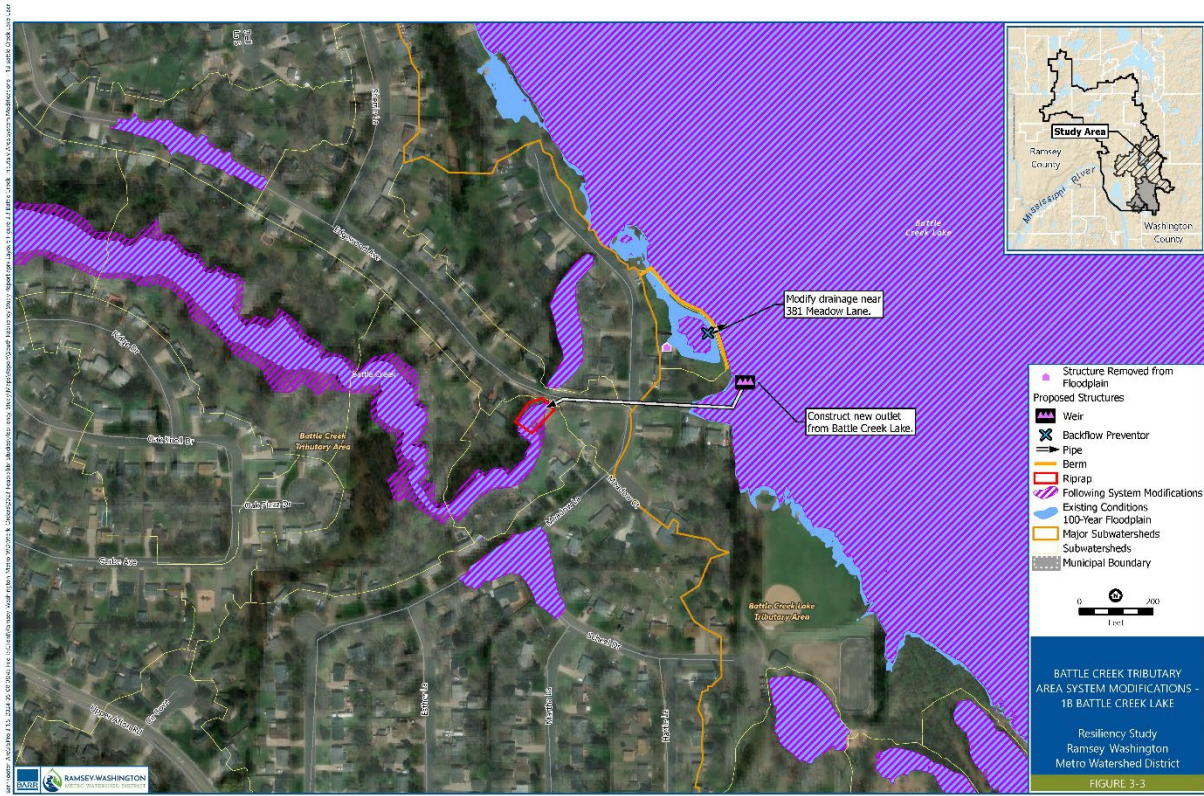
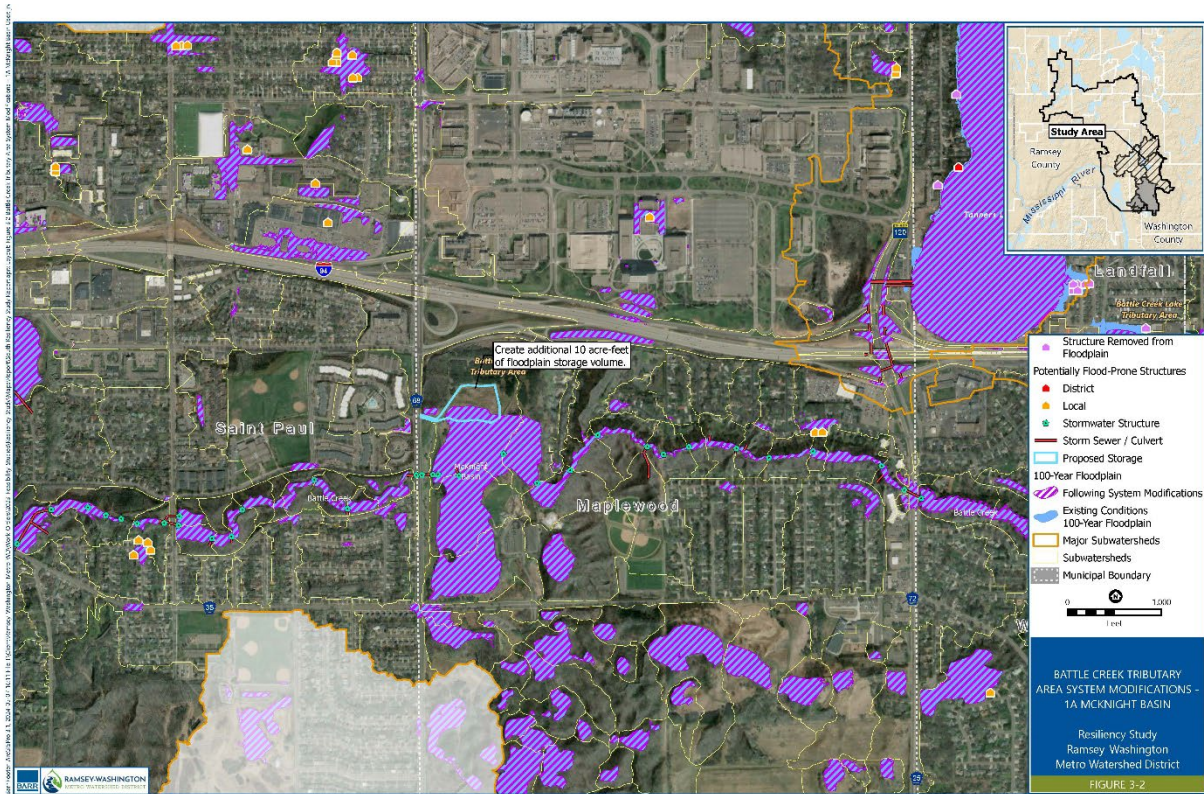
Barr staff: Brandon Barnes, Jay Hawley (project manager), Lulu Fang

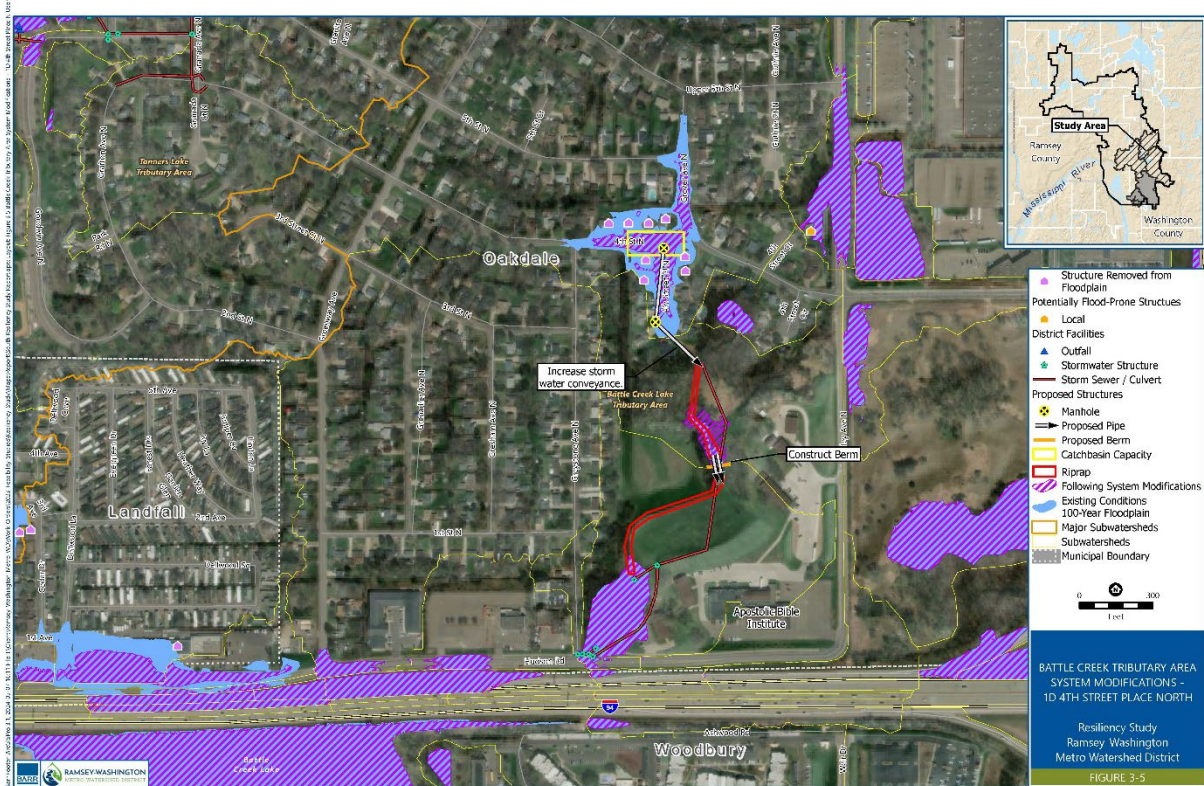
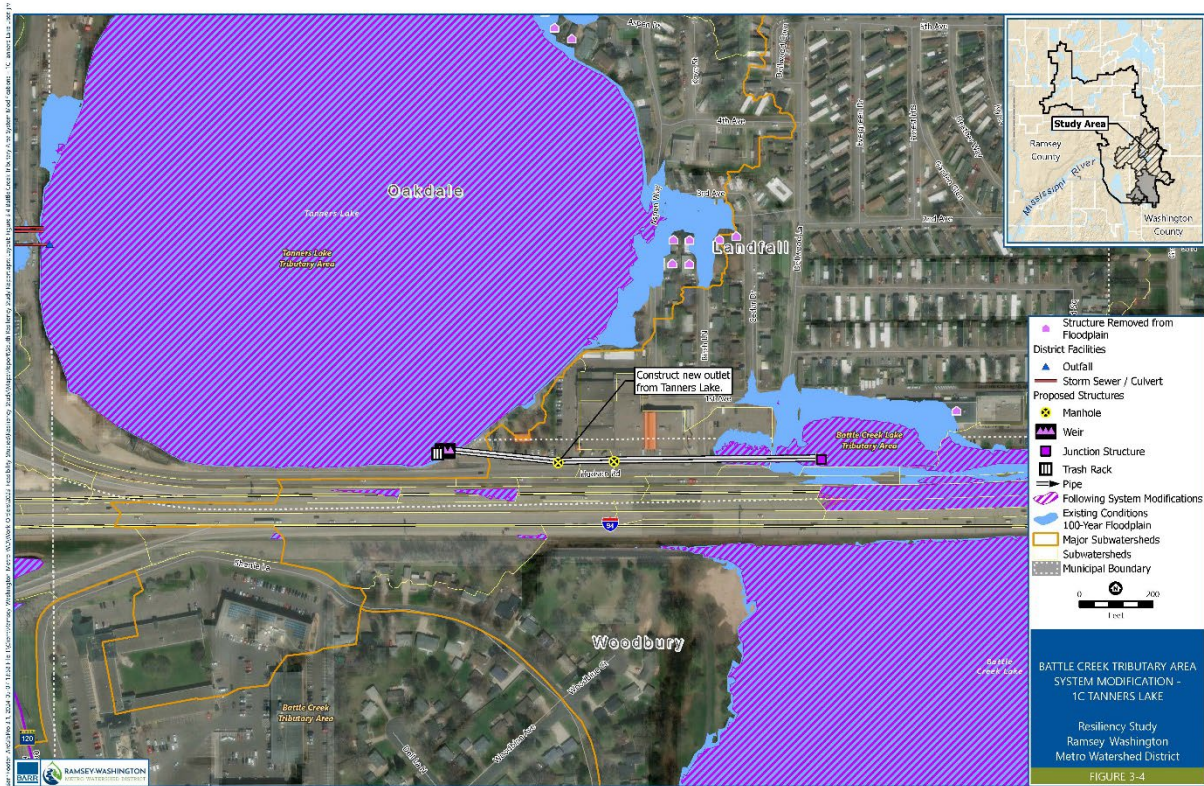
Scope of work

The purpose of this project is to refine the design and operation plans for the proposed outlet modifications on Tanners Lake, Battle Creek Lake and possibly McKnight Basin. This scope continues the feasibility work that began in 2023 to identify strategies or combinations of strategies and system modifications that could remove habitable structures in the Tanners Lake and Battle Creek Lake watersheds from the 100-year floodplain, as shown in the maps below. The work completed in 2023-24 is summarized in the *Resiliency Study for Battle Creek and Fish Creek Tributary Areas* report dated May 2024.

The feasibility work considered a range of system modifications, and the reconstruction of the Tanners Lake and Battle Creek Lake outlets were key elements in all the analyzed options. The *Resiliency Study for Battle Creek and Fish Creek Tributary Areas* report identified 20 impacted habitable structures near Tanners Lake and Battle Creek Lake and the proposed outlet modifications could potentially remove 19 of the structures from the 100-year floodplain. Actively managing the outlets will be an important part of the design to optimize outflow from the lakes and mitigate flood-risk. Actively managing the outlets could also have water quality benefits for Battle Creek, but water quality benefits were not evaluated in the *Resiliency Study for Battle Creek and Fish Creek Tributary Areas*. Water quality benefits will be further evaluated following additional review of potential operation plans for the modified outlet structures. Adding storage around McKnight Basin and possibly modifying the basin's outlet were also important features to prevent any increase in the 100-year flood level of McKnight basin due to the lake outlet modifications.

The purpose of this study is to further refine the outlet designs and operation plans for Tanners Lake, Battle Creek Lake, and McKnight Basin. The development of a more detailed operation plan will allow RWMWD to begin discussions with permitting entities, provide a framework for evaluating potential water quality benefits, and allow for updates to estimated construction costs for modified lake outlet structures to determine if RWMWD should proceed with final design for modifications to the outlet structures from Tanners Lake, Battle Creek Lake, and McKnight Basin.





Barr proposes the following work tasks in 2024:

Task 1: site review: This task includes a review of the existing lake outlets and locations where modifications are identified in the Resiliency Study. Site review will identify feature and infrastructure which could impact the feasibility of proposed modifications. Staff will review existing utilities, topographic features or structures that could impact the location, size or cost of potential modifications.

Task 2: refining proposed system modifications and operating plans: This task involves using the RWMWD stormwater model to further refine the potential system modifications identified in the *Resiliency Study for Battle Creek and Fish Creek Tributary Areas* report. Stormwater model simulations will be used to both refine the size of the system modification features and develop conceptual operation plans for the active management of the Tanners Lake, Battle Creek Lake and possibly the McKnight Basin outlets.

Task 3: coordination with project stakeholders: This task includes coordination with the MnDNR and cities to define design constraints and permitting requirements. Early coordination will identify design requirements for development of an operation plan to mitigate flood-risk and, potentially, improve water quality in Battle Creek.

Task 4: documentation: This task involves preparing a memorandum documenting the modifications to the outlet structures (including concept level plans), revised cost estimates, preliminary operation plans, and recommendations for next steps. This task also includes a presentation of the study's findings to the board.

Budget

The 2024 budget included \$35,000 for this project.

Schedule

The proposed project schedule is outlined below. The refinements to the proposed system modifications and draft outlet operation plans will be evaluated by end of summer/early fall to incorporate any budgeting recommendations into the RWMWD annual planning process. Final documentation will be completed by the end of 2024.

Project tracking

Project milestones

Milestone	Estimated date	Actual date
Project start	May 2024	
Task 1: site visit	June 2024	
Task 2: refining proposed system modifications and operating plans	May-September 2024	
Task 3: coordination with project stakeholders	July 2024	
Task 3: documentation	December 2024	

Monthly updates

Month	Budget spent (\$/%)
May 2024 -	\$0.00 / 0.0%
June 2024 -	\$0.00 / 0.0%
July 2024 -	\$0.00 / 0.0%
August 2024 -	\$0.00 / 0.0%
September 2024 -	\$0.00 / 0.0%
October 2024 -	\$0.00 / 0.0%
November 2024 -	\$0.00 / 0.0%
December 2024 -	\$0.00 / 0.0%

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Administrator's Report

* * * * *

MEMO

TO: Board of Managers and Staff
FROM: Tina Carstens, Administrator
SUBJECT: May Administrator's Report
DATE: May 29, 2024

A. Meetings Attended

Wednesday, May 1	6:30 PM	Board Meeting
Thursday, May 2	10:00 AM	MPCA Check-In
	2:00 PM	MW Summer Tour Planning
Wednesday, May 8	8:30 AM	MAWA Executive Committee
Friday, May 10	8:00 AM	Ramsey County League of Local Governments
Monday, May 13	2:00 PM	Stormwater Capture and Use Engagement Core
Thursday, May 16	9:00 AM	Water Resources Conference Planning Meeting
	3:00 PM	Mark Doneux, Cap Region Admin, Retirement
Tuesday, May 21	9:00 AM	Wakan Tipi Check-In
Wednesday, May 22	8:00 AM	WRC Concurrent Subcommittee Meeting

B. Upcoming Meetings and Dates

WaterFest	June 1, 2024
CAC Meeting	June 11, 2024
Minnesota Watersheds Summer Tour	June 25-26, 2024
July Board Meeting	July 10, 2024
Metro Watersheds Meeting	July 16, 2024
August Board Meeting	August 7, 2024
September Board Meeting	September 4, 2024
CAC Meeting	September 24, 2024
October Board Meeting	October 2, 2024
Metro Watersheds Meeting	October 15, 2024
CAC Meeting	October 22, 2024
November Board Meeting	November 6, 2024
Watersheds Excellence Awards	November TBD
Minnesota Watersheds Annual Conference	December 4-6, 2024
CAC Meeting	December 3, 2024
December Board Meeting	December 11, 2024

C. Staff Anniversaries

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

June 12	Pat Williamson	1 year
June 26	Paul Erdmann	1 year

D. Board Action Log and Updates

The board action log is attached. I review this list each month and add anything suggested in the previous meeting.

E. Minnesota Watersheds Updates

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

Registration for the Minnesota Watersheds Summer Tour is now open! As you know, we are hosting the summer tour along with Capitol Region WD in the east metro. Staff are continuing to plan for the tour stops in our district as well as the reception and banquet on the first night.

Please let me know as soon as possible, if you are able and interested in attending. Here is a link to the information on dates and times as well as agenda. Emily K will register you if you are interested in that. <https://www.mnwatersheds.com/summer-tour>

F. Staff Organizational Chart

Ashlee Ricci, our new Grant Program Manager, started with the district on May 1. She prepared the stewardship grant program information in the packet and plans to attend this meeting for introductions and to answer any questions. It is great to have her on board. All of our interns have now started as well!

Over the last couple of months, I have been meeting with staff to discuss the organizational chart changes that you have seen. I have attached where we are with the organizational chart at this time.

I have also officially promoted and retitled staff that moved up into the Program Manager roles in addition to Paul Erdmann's role that he was hired into last year. Congratulations to the following staff that are taking on the program manager roles. You will also note that Paige Ahlborg has taken on the title Assistant Administrator in addition to her Planning, Projects, and Grant Program duties. This also reflects the day to day operation that is already in order.

Paul Erdmann, Natural Resources Program Manager

Eric Korte, Monitoring and Research Program Manager

Paige Ahlborg, Assistant Administrator (Planning, Projects, and Grants Program Manager)

Shelly Melser, Office Manager

Nicole Maras, Regulatory Program Manager

Lauren Hazenson, Communications and Engagement Program Manager

I am working with the program managers to make sure all the job descriptions are updated to reflect these organizational changes.



Ramsey & Washington
County Commissioners

Board of Managers

ORGANIZATION CHART APRIL 2024

Administrator
Tina Carstens



■ Full Time Staff
 ■ Temporary Staff
 ■ Program Managers
 Open Position

Board of Managers 2024 Action Log

Wednesday, June 5, 2024

Item	Anticipated Action Date	Means of Action	Completed
Governance Manual	March 2024	RBA – Approval	March 2024
West Vadnais Lake Boundary Change	May 2024	Board discussion	May 2024
Shoreland Condition Assessment and Planning	May 2024	Presentation and Discussion.	May 2024
Addressing Internal Load in Lakes (aeration and alum)	Spring 2024	Board discussion	June 2024
Shoreland Assessment Next Steps	Summer 2024	Board Discussion	
Impervious Surface Reduction Planning	Summer/Fall 2024	Presentation and Discussion.	
Chloride Use Reduction/Low Salt Design/Calibration Techniques	Summer/Fall 2024	Presentation and Board Discussion	
PFOS Update	Fall 2024	Presentation and Board Discussion	

* * * * *

Project and Program Status Reports

* * * * *

Memorandum

To: Board of Managers and Staff
From: Tina Carstens, Brad Lindaman, and Erin Anderson Wenz
Subject: Project and Program Status Report – June 2024
Date: May 29, 2024

Note: *The location, brief description, and current status of each project described below can be found on the [2024 RWMWD engineering services story map](#).*

Project feasibility studies

A. Ames Lake area flood risk reduction planning study (Barr project manager: Matt Metzger; RWMWD project manager: Tina Carstens)

The purpose of this study is to complete a planning-level evaluation to identify potential modifications that reduce flood risk to homes and businesses near Ames Lake, supported by the City of Saint Paul. Work includes coordinating discussions with the city; reviewing potential pipe alignments, land acquisition costs, utility conflicts, and permitting issues; and completing the related design. This follow-up planning study was identified in the Beltline resiliency study.

The Housing and Redevelopment Authority (HRA) board is reviewing its property portfolio and developing a long-range plan for several properties, including those near Ames Lake. This month, Barr followed up with the City of Saint Paul and the HRA on the status of the HRA's review of its property portfolio. In March, HRA leadership expressed support for moving forward with a grant application and are evaluating the plans for the parcel(s) and this potential project. The HRA anticipates providing direction in mid-2024 on whether it would support the proposed flood risk mitigation project on the parcel(s) it owns. The RWMWD is still waiting for direction. Following receipt of feedback from the city and HRA, a feasibility report will be prepared documenting considered concepts, stakeholder feedback, cost estimates, permitting requirements, and recommendations for future system modifications. The draft report is anticipated to be available this summer for the RWMWD and Barr to review. A Minnesota Pollution Control Agency (MPCA) Implementation Grant for Stormwater Resilience application was submitted for the project, which, if funded, would offset RWMWD funding. Final design and construction are dependent on input from the HRA but are anticipated to take place in at least 2025 or later. Notification of whether the project receives MPCA grant funding is scheduled for July 2024.

B. Phalen Village flood risk reduction (Barr project manager: Brandon Barnes; RWMWD project manager: Paige Ahlborg)

To: Board of Managers and Staff
From: Tina Carstens and Brad Lindaman
Subject: Project and Program Status Report June 2024
Date: May 29, 2024

Page 2

The purpose of this study is to evaluate modifications to reduce flood risk near Phalen Village north of Lake Phalen by lowering flood levels to remove structures from the 100-year floodplain. The feasibility study was completed in 2022. In 2024, the RWMWD is working with the City of Maplewood to incorporate modifications to the storm sewer system into the city's 2024 street improvement project. This is a follow-up planning study identified in the Beltline resiliency study.

This month, Barr completed a supplemental survey at the new outlet. We also field-delineated the existing wetland. We will share the survey information and wetland delineation with the City of Maplewood to quantify wetland impacts for storm sewer modifications near East Shore Drive, which are consistent with the RWMWD feasibility study. Construction of storm sewer modifications will occur this summer as part of the City of Maplewood's street improvement project.

C. Resiliency study for non-Beltline tributary areas (pre-planning study and evaluation of existing data) (Barr project managers: Jay Hawley, Lulu Fang; RWMWD project manager: Tina Carstens)

The purpose of this project is to evaluate potential system-scale modifications to reduce flood risk within the portion of the RWMWD that was not evaluated as part of the Beltline resiliency study. This portion of the watershed includes the Tanners Lake, Battle Creek Lake, Battle Creek, Carver Lake, Fish Creek, and Snake Creek subwatersheds. The evaluation will identify modifications to the drainage system that could reduce flood risk to habitable structures within the 100-year floodplain of district-managed water bodies—including actively managing outlet control structures on Tanners Lake, Battle Creek Lake, and Carver Lake. This evaluation will allow the RWMWD to identify potential flood risk mitigation strategies that address the portion of the district that is not tributary to the Beltline.

This month, Barr completed internal reviews of the draft project report and submitted it to the RWMWD for review. We will deliver the final report addressing RWMWD comments in June. The report describes Barr's evaluation of potential system modifications needed to remove habitable structures and critical infrastructure from the floodplain in the Carver Lake, Fish Creek, Snake Creek, Tanners Lake, and Battle Creek Lake watersheds. The potential modifications include adjustable outlet control structures, new regional stormwater basins, and modifications to culverts, storm sewers, overland flow paths, and existing storage areas. The modeling effort evaluates ways to mitigate the downstream impacts of these proposed modifications along Fish Creek and Battle Creek and considers whether these actions to mitigate flood risk may have a positive effect on water quality in these creeks.

D. Owasso Basin area/North Star Estates improvements (Barr project manager: Brandon Barnes; RWMWD project manager: Tina Carstens)

The purpose of this study is to evaluate the benefit-cost of flood risk reduction strategies in the Owasso Basin/North Star Estates area by removing habitable structures from the floodplain. Stakeholder outreach with the City of Little Canada is important to this effort. This study is a continuation of the Owasso Basin bypass study, which laid out several phases of implementation and areas of further study.

Previously, the RWMWD received feedback from Saint Paul Regional Water Services and North Star Estates property management that they are not interested in partnering on drainage modifications to their respective properties. The City of Little Canada is supportive of the proposed modifications; however, replacing just the culvert provides only an incremental reduction in flood risk.

Barr and the RWMWD have informed the City of Little Canada and North Star Estates property management of the area's flood risk and specific flood-prone structures. Barr and the district are preparing a summary of recent projects, studies, and future modifications that could be implemented to reduce flood risk. The letter will be shared with the City of Little Canada, Saint Paul Regional Water Services, and North Star Estates. For now, the project is on hold, as two landowners are unresponsive. Barr and the RWMWD will continue to work with the city and landowners and, if new opportunities arise that have landowner support, will work with all stakeholders to identify feasible flood risk options.

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

The purpose of this study is to support the 2024 enhanced street-sweeping grant program.

This period, Barr coordinated with the RWMWD on the 2024 Minnesota Water Resources Conference presentation. The project abstract was accepted.

F. Maplewood Mall 2024 assessment (Barr project manager: Fred Rozumalski; RWMWD project Manager: Paige Ahlborg)

The purpose of this effort is to conduct a comprehensive assessment of Maplewood Mall, similar to the effort conducted in 2018. The assessment leverages an iPad field data application to collect information on the site's tree trenches, rain gardens, porous pavers, and educational features. The information collected as a part of this effort will be presented at the Minnesota Water Resources Conference and the Minnesota Watersheds Annual Conference, as well as during the Minnesota Watersheds Summer Tour in June. In addition, this effort will help define tree replacements in groves where trees are doing poorly (especially in the north and northwest tree groves) and to guide repairs for a garden that is no longer draining properly.

This period, Barr updated the GIS information for use in the iPad field data application and met with the team to plan the workday scheduled for May 23.

G. Payne-Phalen Natural Resources Inventory (Barr project manager: Brendan Dougherty; RWMWD project manager: Paige Ahlborg)

The purpose of this effort is to identify and prioritize restoration opportunities for the preservation of existing green space, strengthening of ecological connectivity, and the enhancement of wildlife and pollinator habitat for the Capitol Region Watershed District (CRWD) and RWMWD, Ramsey County, the City of Saint Paul, and Saint Paul's District Councils 4 and 5.

In September 2023, Barr conducted a natural resource inventory (NRI) at 43 sites within portions of Saint Paul's District Councils 4 and 5, on the east side of Saint Paul. The project was led by the Capitol Region Watershed District working in collaboration with RWMWD, Payne-Phalen Community Council (Planning District 5), and the Dayton's Bluff Community Council (Planning District 4). Barr documented the current site conditions and summarized key issues, opportunities for improvement, and developed goals to help guide management for the natural resources identified within the project area. The final report document is intended to serve as a foundation for further planning and investment within the project area to implement transformative natural resource protection and enhancement actions. A summary memo describing this effort will be included in the July Board packet for the managers' review.

H. Watershed approach to retrofit projects (WARP) (Barr project manager: Marcy Bean; RWMWD project manager: Paige Ahlborg)

In 2022 and 2023, Barr reviewed the history of the retrofit program to help inform considerations for future projects. This "retrofit inventory" resulted in an updated database of over 17,000 properties and geographic information system (GIS) maps of built and considered projects. In 2024, Barr will work with the district to consider the intersections between the database and other district-wide initiatives and information to guide retrofit project selection more systematically.

This period, Barr finalized the quantitative scoring metrics for the WARP layers that were selected during the workshop with the RWMWD. We provided these metrics to the RWMWD for review. Additionally, we performed GIS analysis with the WARP data layers to develop an initial draft of the heat map for non-residential parcels. The heat map identifies parcels that score the highest throughout the watershed. Barr and the RWMWD met to review the initial heat map and compare scoring against past project sites. Next period, the RWMWD will provide feedback on the scoring system and draft heat map to incorporate into the WARP process. Once finalized, Barr and the RWMWD will use the WARP to identify potential project sites to visit and engage property owners.

Project Operations

I. Lake-level station maintenance and rain gauge installation) Barr project manager: Chris Bonick; RWMWD project manager: Dave Vlasin)

The purpose of this project is to continuously measure and record lake levels and display real-time and historical data in graphs on the RWMWD website for the following lakes: Phalen, Snail, Owasso, Wabasso, West Vadnais, Battle Creek, Tanners, Spoon, and Twin.

Barr has completed the all-in-one Power BI webpage and provided the link to the RWMWD. The [webpage](#) is now available to the public on the district's website.

Spring elevation surveys were completed to check and, if necessary, correct water level readings at each station. Where needed, the datalogger programs were updated to reflect the new elevations. These surveys are conducted annually because ice and other natural processes, as well as human activities, can sometimes move the sensors (usually up or down), changing the elevation zero-reference point.

Station-specific updates this spring include:

Tanners Lake station

The HSA bubbler system has been replaced with a Campbell Scientific radar sensor. During the first few years, we experienced repeated issues with operation of the bubbler system, mainly due to the long run of the river line (i.e., air line) into the lake and the heavy vegetation in the area of the sensor. The RWMWD and Barr determined a radar sensor installed 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.

Lake Owasso station

The post on which the ultrasonic water level sensor was mounted was damaged by ice this winter. The post has been repaired, and accurate water levels are being recorded again.

Twin Lake station

The Twin Lake station experiences frequent cellular signal issues. The RWMWD and Barr ordered a new directional antenna and external modem to hopefully correct this issue. Additionally, the GFCI outlet often trips so that the battery charger does not maintain the station battery. The RWMWD and Barr are currently troubleshooting this problem.

New rain gages (Phalen, Tanners, Owasso, West Vadnais, Spoon, Snail, and Twin)

The six new rain gages installed earlier this spring are functioning well and recording data. Currently, the rain data is being uploaded to the VDV (Vista Data Vision) web page viewable by the RWMWD and interested municipalities. The district is considering options for displaying the data on its website. One more rain gage will be added at the Twin Lake station during June.

Capital improvements

J. Woodbury Target store stormwater retrofit project (Barr project manager: Katie Turpin-Nagel; RWMWD project manager: Paige Ahlborg)

The purpose of this project is to create concept-level and final designs and construct stormwater BMPs for Woodbury's Valley Creek Target shopping complex.

In early May, onsite meetings were held with Muir Property Management to review the construction project. Due to communication shortfalls between the property owner and Muir Property Management, a few design modifications were required to gain construction approval. Change order 2 is included this month for review. These changes are anticipated to increase the contract price by \$27,546.25, which is expected to be reimbursed by Target Corporation. The change order addresses:

- Additional tasks associated with subcontracting temporary irrigation bypass and the permanent relocation of the irrigation main line and communication wire bundles that serve the entire Valley Creek Plaza complex.
- Landscaping and restoration changes necessary for project approval (e.g., mulch color, tree size, sod, protection of two trees originally designated for removal).

With these changes incorporated, Muir Property Management provided Target Corporation with construction approval on May 16.

Kurilla delivered materials to the site starting May 17 and began setting up construction fencing and erosion control features on May 20. Construction is underway.

K. Roosevelt Homes (Barr project manager: Marcy Bean; RWMWD project manager: Paige Ahlborg)

The purpose of this project is to create construction documents for a multi-phase flood management and water quality improvement project at the Roosevelt Homes public housing area in Saint Paul.

Barr is working with the property owner and the City of Saint Paul to design the final phase that will help direct flow across the site into the two stormwater basins. This period, Barr prepared preliminary construction documents and shared updated designs with the owner. Based on feedback, designs will continue to be developed in 2024 for construction in early 2025. An MPCA Implementation Grant for Stormwater Resilience application was submitted for the project, which, if funded, would offset RWMWD funding. Notification of whether the project will receive grant funds is anticipated in July 2024.

L. Targeted retrofit projects 2024 (Barr project manager: Marcy Bean; RWMWD project manager: Paige Ahlborg)

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

In 2023, discussions began with Saint Paul Youth Services for a potential green roof. This period, Barr continued to develop a scope for structural investigation of the roof to determine its potential for accommodating the additional load of a green or blue roof system.

M. Pioneer Park stormwater reuse (Barr project manager: Jennifer Koehler; RWMWD project manager: Paige Ahlborg)

The purpose of this project is to complete the final design, plans, and specifications for a stormwater reuse system in Pioneer Park that will reduce the use of groundwater for irrigation and phosphorus loads to downstream water bodies.

To: Board of Managers and Staff
From: Tina Carstens and Brad Lindaman
Subject: Project and Program Status Report June 2024
Date: May 29, 2024

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Barr, the RWMWD, the city, and Peterson Companies met in the field on April 25, as well as on May 2 with Peterson and its electrical subcontractor. Barr updated the erosion control plan for the site based on revised access. We have also reviewed submittals from Peterson and have been actively coordinating the review of remaining submittals. Peterson mobilized to the site and construction began in early May. To date, Peterson has completed the following work: dewatering; lowering of the channel below the existing pedestrian bridge between the north and south basin; installation of the wooden skimmer, intake structure, and grading; preparation of the subgrade; electrical conduit installation; and restoration of specific areas. Upcoming work will include pipe modifications in the pavilion, connections to the existing irrigation system, concrete pad reinforcement and pouring, and final stabilization of the site. Per a final timeline from WaterTronics, delivery of the pump and treatment system is not expected until late August, and Peterson Companies will return then to install, connect, and bring the reuse system into operation.

N. Fish Creek tributary improvements (Barr project manager: Tyler Olsen; RWMWD project manager: Tina Carstens)

The purpose of this project is to design and implement vegetation improvements around Double Driveway Pond, as well as stream stabilization improvements in the Fish Creek tributary upstream.

This period, Galowitz-Olson subcontracted an appraiser to value the drainage easement purchase. Barr worked with the appraiser to provide information needed to perform the land assessment. No design work was completed this period, and the plans remain at a 60-percent level. Per direction from the RWMWD, Barr will develop the plans and specifications to 100-percent design so as not to delay construction once purchase agreements for the easements have been finalized. Next period, Barr will resume the design process to finalize the plans and technical specifications. We will keep the board up to date on developments and schedule changes.

O. Cottage Place Wetland restoration (Barr project manager: Brendan Dougherty; RWMWD project manager: Paige Ahlborg)

The purpose of this project is to design and restore a degraded wetland on City of Shoreview property located near the Cottage Place cul-de-sac. The project will involve the creation of plans, bidding, and construction administration to provide additional stormwater treatment and restore wildlife habitat within the project area.

This period, Barr finished developing plans and specifications and posted the project for public bidding. Dimke Excavating was the apparent low bidder. We have requested qualifications and will review once this information is received. A memo outlining the results of the bid opening is included in this month's board packet for the managers' review.

P. County Road C culvert (Barr project manager: Tyler Olsen; RWMWD project manager: Paige Ahlborg)

The purpose of this project is to design and construct a box culvert where Kohlman Creek crosses under County Road C (owned by Ramsey County) in Maplewood. The culvert was identified as a flood risk reduction improvement project in the Kohlman Creek flood risk reduction feasibility study.

This period, Barr finalized the contract documents for the County Road C culvert replacement project and posted the project for bidding on May 17. Bidding will close on June 3. Barr will then review submitted bids and present a summary during the June 5 board meeting. This month, the cost-share agreement with Ramsey County was also finalized. The county will pay for 100 percent of project costs included in the bid form. Construction is anticipated in summer 2024; a more detailed schedule will be developed once a contractor has been selected.

Q. Kohlman Creek flood risk reduction projects: final design (Barr project manager: Tyler Olsen; RWMWD project manager: Paige Ahlborg)

The purpose of this project is to design multiple flood risk reduction improvement projects that were previously identified in the Kohlman Creek flood risk reduction feasibility study. The improvement projects include PCU Pond berm grading, 13th Avenue storm sewer improvements, and berm grading and outlet installation in backyards of homes along County Road C.

This period, Barr coordinated with Ramsey County Parks to evaluate the raising of an access road to prevent the 100-year flood from impacting structures south of County Road C. We provided a concept design and existing survey information to Ramsey County Parks. We also began evaluating how changes to the flow duration curve along the creek could affect the existing cross section. Results of the evaluation will be used to determine what modifications, if any, are needed along Kohlman Creek. Design of modifications to reduce flood risk along Kohlman Creek will continue through 2024. The tentative schedule is to solicit bids during winter 2024-2025 and construction in summer 2025.

CIP project repair and maintenance

R. Routine CIP inspection and unplanned maintenance identification (Barr project manager: Gareth Becker; RWMWD project manager: Dave Vlasin)

The purpose of this effort is to maintain the RWMWD's existing capital improvement projects as they arise outside the normal annual maintenance project (below).

Most of the work completed during this period was associated with the Lake Wabasso outlet replacement geotechnical work and planning with Ramsey County. The district is collaborating with the county as it prepares to remove the existing outlet and replace it with a new outlet when funds are available. Recently, Barr led the geotechnical investigation and analysis and prepared a conceptual design for the county to consider. Cost estimates were also prepared for the county to use in its internal funding request process. Once funding is approved, the outlet will be replaced.

S. 2024 CIP maintenance and repairs projects (Barr project managers: Gareth Becker; RWMWD project manager: Dave Vlasin)

The purpose of this effort is to maintain the RWMWD's existing capital improvement projects through this annual maintenance project.

To date, work has been completed on most of the eight sites. Currently, work has not begun at Aldrich Arena, and two other sites have minor work and restoration remaining. The contractor has submitted a partial payment application for consideration again this month. We assume no change to the overall schedule of this year's construction project.

T. Beltline Mississippi Branch outfall replacement project (Barr project managers: Joe Welna and Nathan Campeau; RWMWD project manager: Dave Vlasin)

The purpose of this project is to replace the final approximately 70 feet of the Beltline Interceptor adjacent to the Mississippi River that failed in July 2023.

In early July 2023, a sinkhole was discovered over the Beltline Interceptor Mississippi Branch alignment, just upstream of the outfall into the Mississippi River. An inspection inside the tunnel revealed two holes in the sides of the large steel pipe section about 10 feet from the outfall to the Mississippi River and another tunnel area needing immediate attention. During the repair work, it was clear that a more extensive, long-term repair would be needed for approximately 70 feet of corroded steel tunnel. Barr completed hydraulic evaluation of several repair alternatives and construction feasibility and cost estimate of the selected alternative, which includes full replacement of the steel pipe section.

In May, we revised the detailed 90-percent design, incorporating comments from the RWMWD and the landowner (Saint Paul Port Authority). We have also completed permitting with the city and RWMWD. The plans, contract documents table of contents, and engineer's opinion of probable cost are in the attached memo for consideration by the managers at the June meeting. If the managers approve, we will place the project out to bid in June. Construction and repair are planned for late fall and winter 2024-2025.



Above: Drone photo of where the Beltline tunnel meets the Mississippi River through a river wall owned by Saint Paul Port Authority. The concrete blocks in the background show the manhole location, which is the upstream limit of the proposed tunnel replacement.

U. Natural Resources Update – Paul Erdmann

The **Keller Shoreline Project** is well under way, and as of this writing, the project is about 70% complete. We started the installation in late April/early May by installing biodegradable coir biologs along the shore, then filling the void spaces of the rock gabions with small rock, then placing a sand/compost mix on top of the small rock as a vegetation medium. The entire planting area was then seeded with a native shoreline mix and cover crop, and then covered in erosion control fabric and prairie straw. For the last several weeks over 250 students, both grade school and high school, have helped us plant over 2,600 native plants in the project area, while learning about native plants and their importance for water quality and wildlife habitat. Students have also been exposed to birding (and birds have been abundant at Keller Lake) and learning about some of the wildlife that will utilize our plantings.

Beyond our education team and other Watershed staff, a CAC volunteer, Master Gardeners, and students, we have had much help from Ramsey County staff and Conservation Corps members. A special thanks to Sage and Tracy for making sure everything goes smoothly and that students are learning something in the process. We are very fortunate and grateful to have all of this help to make sure this project is a success.



We have faced some cold and rainy days, as well as rising and falling water levels, but the NR crew and all of our other helpers have persevered and the project is going well. This project is a collaboration with Ramsey County Parks & Recreation and is part of the Keller Habitat Enhancement Project, which is funded by a Conservation Partners Legacy grant.

We have also snuck a few days of **maintenance** in when time allows at Lake Phalen and Snail Lake Regional Park. Ramsey County staff and Conservation Corps members assisted with the removal of much garlic mustard and some cypress spurge and other weeds at Wetland A.

Welcome Emilia! Emilia Gusdal, our 3rd 2024 Natural Resources intern started on May 28th. Below is a short intro Emilia provided for the board.

Hi! My name is Emilia and I am one of the Natural Resource interns this year. I just completed my first year at St. Olaf College where I am majoring in Environmental Studies. I have been working at the YMCA as a swim instructor and lifeguard for a few years, last spring I was an outdoor education crew member for Conservation Corps and in the summer, I was an environmental stewardship institute fellow at Friends of the Mississippi River. I am very passionate about music: I play flute in the St. Olaf Band and I am an alto in one of the college's choirs. I love going camping with my friends and family, especially to the Boundary water. I also enjoy going to national parks and travelling new places. I am studying Norwegian and hope to study abroad there in the coming years. I enjoy alpine skiing (huge fan of Mikaela Shiffrin), swimming, thrifting, listening to music (especially 70s and 80s rock), and spending time on the lake. I have a dog Sadie who is a cavapoo and she loves going paddle boarding but hates being in the water! This summer I am excited to be out in the field and learn to identify more plant species! Here is a picture of me at the highest chairlift in North America, and a second photo where you can see (part of) my face!



V. Public Involvement and Education Program – Sage Passi

Keller Lake Shoreline Make-Over by Eleven Classes and 21 Master Gardeners/CAC/Water Stewards



Above left: Joe Tillotson, Natural Resources Technician, demonstrates planting at the Keller Lake shoreline restoration site. Above right: Student helping with shoreline planting at Keller Lake.

Watershed District Natural Resources staff and interns teamed up with eleven classes from American Indian Magnet, Weaver Elementary, Farnsworth Aerospace, Mounds Park Academy and L’Etoile du Nord for two and a half weeks on the Keller Lake shoreline restoration in Maplewood. CAC members Stuart Knappmiller and Tammy McCulloch and 21 Ramsey County Master Gardeners also helped support the planting at Keller Lake.

Birdwatching Is A Big Hit

Students had the opportunity to bird watch with binoculars along the boardwalk at Keller Lake with the assistance of Naturalists Steve Johnson and Bev Blomgren. Students also participated in a scavenger hunt on Keller Island while taking a break from planting. Education staff, Sage Passi and Tracy Leavenworth provided a pre-lesson and hands-on support for these experiences.

Below left: Charlee Thao, a Farnsworth teacher, and fourth grade students view birds from the boardwalk. Below right: Weaver fifth graders explore bird life on the boardwalk along Keller Lake and adjacent Maplewood wetlands.



Two fifth grade classes from American Indian Magnet assisted in planting the Wilderness in the City native plant demonstration garden in front of the pavilion on Keller Island on May 15 with the help of Metro Blooms staff, Alexandra Zerzan, Ramsey County Master Gardeners, and Watershed Education staff. Many volunteers assisted the classes with planting on Keller Island and Keller Lake shoreline that day.



Above left: Alexandra Zerzan demonstrating planting techniques. Above right: Volunteer Stuart Knappmiller, CAC member and Water Steward, assisting students with planting.

Thomas Draskovic, Lakota Language and Cultural Specialist from American Indian Magnet led several drumming ceremonies on May 15 on Keller Island for students and volunteers to celebrate and acknowledge the history, presence and travel route of the indigenous people in the area where these

projects are being installed. Interpretive signage, describing the use of native plants installed in the demonstration garden, is being developed with input and support from Wakan Tipi education staff. The signage will be funded by RWMWD’s art grant and Ramsey County Parks. Funding for the planting was provided by an LCCMR grant through Wilderness in the City, like the other demonstration garden planted by American Indian Magnet students and other RWMWD schools at Battle Creek Regional Park in the spring and fall of 2023.



“The Dakota collected dew covered flowers from the swamp in the morning and squeezed the juice from them. The juice was then boiled until it turned into brown sugar.”

Above left: Drumming ceremony taking place on Keller Island during the Wilderness in the City native plant demonstration garden planting.

Harmony Adult ESL Classes Explore Water Quality and Animal/Plant Life at Maplewood Nature Center



Above: ELL and Community Education students learning about water quality monitoring.

RWMWD Education staff Sage and Tracy have been partnering with CAC member Randee Edmundson, Adult ESL teachers Rita Bulger and Eileen Reuss and their two ELL classes at Harmony Learning Center since early winter. These students learned about our Watershed District, our grant programs and helped us plant native seeds and transplant native seedlings in their classes. Randee reviewed the purpose and use of water quality monitoring tools in late winter and prepared them for a field trip to Maplewood Nature Center. On May 1st three ELL classes and one Community Education class from Harmony Learning

Center in North St. Paul traveled to Maplewood Nature Center for a morning of hands-on water quality monitoring, macroinvertebrate sampling and nature studies on the boardwalk as well as exploration of trails around the park. RWMWD education staff and many volunteers assisted with this field trip.

Thank you to Randee Edmundson and the Minnesota Master Naturalists who volunteered to accompany the four classes on their explorations of the trails and boardwalk around the Maplewood Nature Center which included plant ID, observations and bird-watching. Thank you to Water Stewards, Kim Ury, Martha Boyd and Anna Barker for helping with water quality monitoring and nature trail observations. Thanks to Steve Johnson, Bev Blomgren and the other Minnesota Master Naturalists who assisted the ESL students with observations on the hike.

Below left: ELL and Community Education students completing macroinvertebrate sampling. Below middle: CAC member Randee Edmundson Below right: Minnesota Master Naturalists at the Maplewood Nature Center.



W. Communications and Outreach Program – Lauren Hazenson

Current Projects

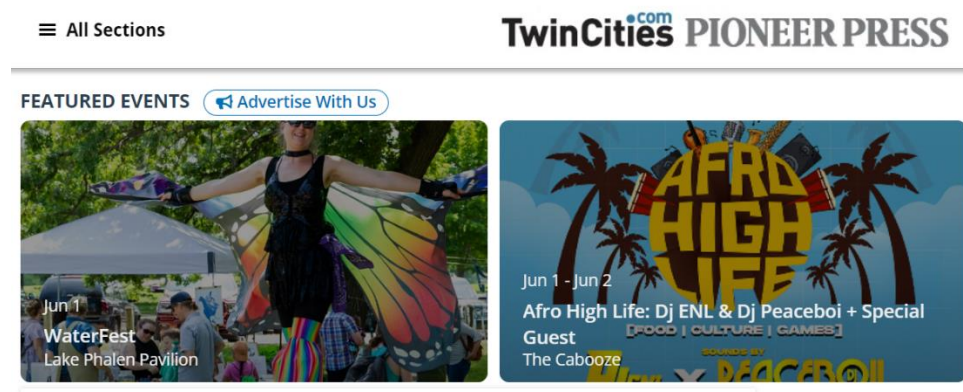
WaterFest Promotion and Preparation



Lauren appeared on the WCCO local news show, “Saturday Morning,” on May 24 to promote WaterFest. The segment was broadcast in the greater Twin Cities area and also was made available online on the WCCO website:

<https://www.cbsnews.com/minnesota/video/waterfest-activities-help-minnesotans-learn-about-keeping-lakes-clean-and-healthy/>

The WaterFest ad in the events section of the Pioneer Press is online:



Lastly, RWMWD episode of the St. Paul District 2 podcast, “D2 & U” is out:

https://open.spotify.com/show/0CWy6aTwr3P3bn496Fximg?flow_ctx=ce1b33a9-5b78-4a06-8d19-4a5be0734e01%3A1716934222

Overall, website traffic numbers for the WaterFest page have increased 22% over the same month last year, and 97% over the same 7-day period at the end of May. The Facebook event page is also seeing a good amount of traffic. The WaterFest planning team is making adjustments for a potential increase in visitors if the weather holds.

Much of this month’s work was geared toward finalizing the new RWMWD display and activities for WaterFest, which will also be used for some of our other events throughout the growing season. We encourage everyone to stop by the interactive floor map activity, experience the “reduce your water footprint” photobooth, or take in the 25-year retrospective of landmark RWMWD projects.

Farmer’s Market Booths

The Communications team has at least eight farmers market tabling events scheduled for this summer, three of which are in June. New display materials, handouts, and activities are complete and ready for testing at our initial markets. These outreach events allow us to hone our in-person communications by audience and anticipate needs for larger campaigns.

Welcome Emma!

To: Board of Managers and Staff
From: Tina Carstens and Brad Lindaman
Subject: Project and Program Status Report June 2024
Date: May 29, 2024

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Communications Intern Emma Henry began work with us this month. She is a Macalester College student majoring in environmental studies, political science, and history. Her work thus far has focused on preparing the photo booth for WaterFest, conducting one-on-one meetings with department staff, and beginning the groundwork for an ongoing article series featuring Stewardship Grant recipients.

E-newsletter

Opens: 45.5%
Clicks: 1.9%
Subscribers: 1,550

Social Media (Facebook, YouTube, Instagram)

Facebook

Reach: 10,293
Engagement (likes, shares, comments): 1,221
Followers: 1,724

Instagram

Reach: 820
Engagement: 40
Audience: 928

Youtube

Views: 1,036
Watch time (hours): 12.3
Subscribers: 341
Viewers: 781

Resident Communications/Professional Development/ Public Meetings, Misc.

- Roosevelt Homes flyers (5/23)
- Communications Intern onboarding
- Cottage Place project communications support

* * * * *

Handed out at
Meeting

* * * * *

Memorandum

To: RWMWD Board of Managers
From: Tyler Olsen, Greg Nelson, and Brandon Barnes
Subject: County Road C Culvert Replacement Project – Recommendation to Award Project
Date: June 5, 2024
c: Paige Ahlborg and Tina Carstens

1 Introduction

The goal of the County Road C Culvert Replacement Project is to reduce flood-risk for habitable structures along Kohlman Creek. The design at County Road C includes the removal of the existing culvert, replacing it with a box culvert, and site restoration for the roadway culvert work, embankment, and nearby residential driveway. This is the first of several planned projects along Kohlman Creek, that when constructed, will result in four structures being removed from the 100-year flood zone, located in the vicinity of the wetland upstream (south) of County Road C. 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).

Construction documents including bidding documents, technical specifications, and construction drawings were recently prepared for the County Road C culvert replacement project. The RWMWD Board of Managers authorized bidding for the County Road C culvert replacement project at their March 6, 2024 meeting. Following the Board’s authorization, the project was posted for public bidding on QuestCDN on May 17, 2024. The project was advertised for two weeks prior to the bid posting in the St. Paul Legal Ledger publication.

Public bidding closed at 10:00am on June 3, 2024, and bids were opened at a virtual bid opening. Six (6) bids were received and are listed in Table 1.

Table 1 Summary of Bids Received for County Road C Culvert Replacement Project

Number	Bidder	Total Base Bid Entered on the Bid Form
1	Bituminous Roadways Inc.	\$596,481.02
2	Landwehr Construction Inc.	\$617,792.40
3	New Look Contracting Inc.	\$645,746.00
4	Pember Companies Inc.	\$648,234.80
5	Dresel Contracting Inc.	\$764,878.30
6	Urban Companies	\$968,369.00

Engineer’s opinion of probable cost was \$527,700 - \$703,600 at the March 2024 Board Meeting (estimated accuracy range of -10% to +20%).

Bid results from six (6) firms indicate high interest and availability, which seemingly resulted in competitive bids, particularly among the lowest four bids. The engineer's opinion of probable cost was estimated at 95%-design completion and was based on average bid prices from recent similar projects. The engineer's opinion of probable cost was \$527,700 - \$703,600 (estimated accuracy range of -10% to +20%) and aligns with the first four (4) total base bid prices in Table 1. The apparent low bid is from Bituminous Roadway Inc. at \$596,481.02.

RWMWD has not contracted with Bituminous Roadways Inc. on recent projects, but this firm is well known throughout the Twin Cities Metro Area and has been in business since 1946.

The lowest responsive and responsible apparent low bidder has met the bidding requirement and therefore we recommend that the RMWD Board of Managers consider the following motion:

Award the project to Bituminous Roadways Inc. at the bid price of \$596,781.02 and direct staff to request the required bonds and insurance information and execute the contract for the work.

Once the necessary submittals are received and reviewed, and the contract is signed by all parties, a required preconstruction meeting will be held and a formal "Notice-to-Proceed" will be issued.

Next Steps

If the Board of Managers approves the motion, the following would be completed:

- An Authorized Representative sign the Notice of Award to be sent to the successful bidder
- Successful bidder provides the following information:
 - Fully executed Form of Agreement
 - Performance Bond and Payment Bond
 - Certificate of Insurance verifying adequate insurance per the bidding documents
- Barr and Galowitz-Olson will review the submittals and, if necessary, request modifications.
- Barr will coordinate with the successful bidder regarding the construction schedule and schedule a preconstruction meeting.
- The Form of Agreement will be signed by all parties.
- Notice to Proceed is anticipated to be issued in June 2024.
- All work shall be substantially complete by September 1, 2024.
- The vegetation warranty will extend one-year post-substantial completion, estimated through September 2025.