



**RAMSEY-WASHINGTON**  
METRO WATERSHED DISTRICT

# **March 2023 Board Packet**

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# Agenda

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## **Regular Board Meeting Agenda**

Wednesday, March 1, 2023

6:30 PM

*This month's meeting will be held at the District office (2665 Noel Drive, Little Canada, MN) but also via the video conferencing platform Zoom. Board members, staff, consultants, and general public will be able to join in person OR via video and/or phone. In order to continue to be sensitive to the COVID-19 pandemic, we may need to limit the number of public in the board room. 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. **Election of President Pro Tem**
3. **Approval of Agenda (pg. 3)**
4. **Ramsey-Washington Metro Watershed District Board Manager Oath of Office (pg. 7)**
5. **Consent Agenda: To all be approved with one motion unless removed from consent agenda for discussion.**
  - A. Approval of Regular Meeting Minutes February 1, 2023 (pg. 13)
  - B. Treasurer's Report and Bill List (pg. 23)
  - C. Permit Program
    - i. 23-07 White Bear Lake High School South Baseball Field (pg. 36)
  - D. Stewardship Grant Program
    - i. 23-04 CS DeLong, rain garden and habitat restoration (pg. 42)
  - E. 2023 CIP Maintenance and Repair – Change Order No. 1 (pg. 44)
6. Visitor Comments (limited to 4 minutes each)
7. Permit Program
  - A. Applications
    - i. 23-03 WCA Little Canada Twin Lake Blvd Wetland Replacement Plan – for discussion only (pg. 56)
  - B. Enforcement Action Report (pg. 101)
8. Stewardship Grant Program
  - A. Applications – See consent agenda
  - B. Budget Status Update (pg. 105)
9. Action Items
  - A. **Board of Managers Annual Meeting (pg. 107)**
10. Attorney Report
11. Board Issues, Policies and Operation (for discussion at meeting)
  - A. Board Action Log: Additions, deletions
12. New Reports and/or Presentations
  - A. Kohlman Creek Wakefield Diversion Flood Risk Reduction Feasibility Study (pg. 111)
  - B. Owasso Basin and North Star Estates Flood Risk Reduction Study Update (pg. 114)
  - C. Ames Lake Flood Risk Reduction Feasibility Study Scope Summary (pg. 149)
  - D. Kohlman Lake Aquatic Plant Management Effects: Phase I Scope Summary (pg. 153)

13. Administrator's Report (*pg. 156*)
  - A. Meetings Attended
  - B. Upcoming Meetings and Dates
  - C. Ongoing Project Updates
  - D. Minnesota Watersheds Updates
14. Project and Program Status Reports (*pg. 159*)
  - Project Feasibility Studies*
    - A. Interim Emergency Response Planning
    - B. Kohlman Creek Flood Risk Feasibility Study
    - C. Kohlman Creek/Wakefield Lake Diversion Feasibility Study
    - D. County Ditch 17 Improvements Feasibility Study
    - E. Phalen Village Feasibility Study
    - F. Ames Lake Area Flood Risk Reduction Planning Study
    - G. Owasso Basin/North Star Estates Improvements
    - H. Double Driveway Pond Optimization Study
    - I. Carver Ponds Improvement Study
    - J. South Metro Mississippi River TSS TMDL
    - K. Resiliency Study for non-Beltline Tributary Areas
  - Research Projects*
    - L. Kohlman Lake Aquatic Plans and Nutrients Study
    - M. Shallow Lake Aeration Study
  - Capital Improvements*
    - N. Woodbury Target Store Stormwater Retrofit Projects
    - O. Targeted Retrofit Projects
    - P. Stewardship Grant Program Support
    - Q. Lake Emily Subwatershed Regional BMP
    - R. Pioneer Park Stormwater Reuse
  - CIP Project Repair and Maintenance*
    - S. 2023 CIP Maintenance and Repair Project
    - T. 2023-2025 BMP Maintenance Program
  - Program Updates*
    - U. Natural Resources Program
    - V. Public Involvement and Education Program
    - W. Citizen Advisory Committee Program
15. Manager Comments and Next Month's Meeting
  - A. Board Action Log (*pg. 176*)
16. **Adjourn**





# RAMSEY-WASHINGTON

## METRO WATERSHED DISTRICT

### **NOTICE OF BOARD MEETING**

**Wednesday, March 1, 2023**

**6:30 PM**

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

This month's meeting will be held at the District office (2665 Noel Drive, Little Canada, MN) AND via the video conferencing platform Zoom. Board members, staff, consultants, and general public will be able to join in person or via Zoom. In order to continue to be sensitive to the COVID-19 pandemic, we may need to limit the number of public in the board room area. 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/83084869146?pwd=Wlg4cjlsQlNpL1hodXlHV2J3SC9JUT09>

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 **830 8486 9146**. The meeting password is **111818**. If you have any questions, please contact Tina Carstens at [tina.carstens@rwmwd.org](mailto:tina.carstens@rwmwd.org).

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# Board Manager Oath of Office

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**Matt Kramer**

RAMSEY-WASHINGTON METRO WATERSHED DISTRICT  
RAMSEY AND WASHINGTON COUNTIES, MINNESOTA

STATE OF MINNESOTA	)	
	) ss.	OATH OF OFFICE
COUNTY OF WASHINGTON	)	

I, **BENJAMIN KARP**, do solemnly swear that I support the Constitution of the United States, the Constitution of the State of Minnesota, and that I will faithfully, justly, and impartially discharge the duties of the office of Manager of the Ramsey-Washington Metro Watershed District, Ramsey and Washington Counties, Minnesota, to the best of my judgment and ability.

Dated: _____	_____
	<b>Benjamin Karp</b>

RAMSEY-WASHINGTON METRO WATERSHED DISTRICT  
RAMSEY AND WASHINGTON COUNTIES, MINNESOTA

STATE OF MINNESOTA	)	
	) ss.	OATH OF OFFICE
COUNTY OF WASHINGTON	)	

I, **MARK GERNES**, do solemnly swear that I support the Constitution of the United States, the Constitution of the State of Minnesota, and that I will faithfully, justly, and impartially discharge the duties of the office of Manager of the Ramsey-Washington Metro Watershed District, Ramsey and Washington Counties, Minnesota, to the best of my judgment and ability.

Dated: _____	_____
	<b>Mark Gernes</b>

RAMSEY-WASHINGTON METRO WATERSHED DISTRICT  
RAMSEY AND WASHINGTON COUNTIES, MINNESOTA

STATE OF MINNESOTA	)	
	) ss.	OATH OF OFFICE
COUNTY OF WASHINGTON	)	

I, **VAL EISELE**, do solemnly swear that I support the Constitution of the United States, the Constitution of the State of Minnesota, and that I will faithfully, justly, and impartially discharge the duties of the office of Manager of the Ramsey-Washington Metro Watershed District, Ramsey and Washington Counties, Minnesota, to the best of my judgment and ability.

Dated: _____	_____
	Val Eisele

**Dr. Pamela Skinner**

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# Consent Agenda

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# RAMSEY-WASHINGTON

## METRO WATERSHED DISTRICT

### Ramsey-Washington Metro Watershed District Minutes of Regular Board Meeting February 1, 2023

The Regular Meeting of February 1, 2023, was held at the District Office Board Room, 2665 Noel Drive, Little Canada, Minnesota, and via Zoom web conferencing, at 6:30 p.m. A video recording of the meeting can be found at <https://youtu.be/zdQw09N1Dv8>. Video time stamps included after each agenda item in minutes.

#### **PRESENT:**

Larry Swope, President  
Dianne Ward, Vice President  
Dr. Pam Skinner, Secretary  
Val Eisele, Treasurer  
Matt Kramer, Manager

#### **ABSENT:**

#### **ALSO PRESENT:**

Tina Carstens, District Administrator  
Tracey Galowitz, Attorney for District  
Nicole Soderholm, Permit Coordinator  
Dave Vlasin, Project Coordinator  
Benjamin Karp, St. Paul Resident  
Bill Bartodziej, Natural Resource Specialist

Paige Ahlborg, Project Manager  
Brad Lindaman, Barr Engineering  
Nick Palatiello, Barr Engineering  
Evan Christianson, Barr Engineering  
Mary Fitzgerald, Permit Inspector

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

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

#### **2. APPROVAL OF AGENDA (00:15)**

President Swope requested to add the following items to the agenda under Item 10: Inspection/Maintenance Tool Examples and Adoption of Culvert Program, Definition of Native Seed, Wetland Workshop, Ponds of Battle Creek, and Board Closed Session.

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

A roll call vote was performed:

Manager Skinner	aye
Manager Eisele	aye
Manager Kramer	aye
Manager Ward	aye
President Swope	aye

Motion carried unanimously.

**3. RECOGNITION OF OUTGOING BOARD MEMBERS – LAWRENCE SWOPE AND DIANNE WARD (1:50)**

Tina Carstens presented certificates of recognition to the outgoing Board members and thanked President Swope and Manager Ward for their time and dedication.

**4. CONSENT AGENDA (4:43)**

- A. Approval of Special Meeting Minutes from January 18, 2023
- B. Treasurer's Report and Bill List
- C. Stewardship Grant Program
  - i. 23-01 CS Owasso Heights Townhomes
- D. District Liability Insurance Coverage Waiver

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

Further discussion: Manager Eisele asked for more information on a change order. Tina Carstens explained that bill is for work that was done by the attorney relating to a change order.

Manager Ward noted that Owasso Heights Townhome project, where the HOA was the applicant. She stated that perhaps this would be a good model to use going forward, reaching out to HOA's. Paige Ahlborg replied that the District has done townhome projects, but it can be difficult. She stated that often it is helpful to work with the management company that may manage multiple townhome properties.

A roll call vote was performed:

Manager Skinner	aye
Manager Eisele	aye
Manager Kramer	aye
Manager Ward	aye
President Swope	aye

Motion carried unanimously.

**5. VISITOR COMMENTS (7:45)**

No comments.

**6. PERMIT PROGRAM (7:48)**

A. Applications

Permit #23-02: Caretta Assisted Living – Maplewood

Nicole Soderholm noted that these projects all include a variance request which is why they were not on the Consent Agenda. She provided details on the proposed assisted living project and explained the variance request for the project. She stated that they will be abandoning a stormwater pipe and therefore will need to block it off, and then installing a new pipe in another location. She stated that the proposed final condition would be to meet the buffer requirements. She noted that this would be a temporary disturbance of the wetland buffer.

Manager Ward referenced the variance letter from the applicant, specifically the second paragraph, and asked if that should be included in the special provisions. Nicole Soderholm noted that was a past tense, in that they have minimized disturbance to the best of their ability.

Motion: Manager Eisele moved, Manager Kramer seconded, to approve Permit #23-02 with the variance and special provisions.

A roll call vote was performed:

Manager Skinner	aye
Manager Eisele	aye
Manager Kramer	aye
Manager Ward	aye
President Swope	aye

Motion carried unanimously.

Permit #23-03: Ramsey County Hodgson Road Reconstruction – Shoreview

Nicole Soderholm stated that Ramsey County will be reconstructing Hodgson Road, adding curb and gutter, storm sewer, and pedestrian facilities. She noted that infiltration will be exceeded above District requirements and additional floodplain storage will also be created. She stated that this variance request is also for storm sewer pipe, similar to the last request, and will be a temporary disturbance.

Manager Eisele asked if there is an understanding of when a permanent disturbance would be needed or whether a temporary disturbance often transitions to a permanent disturbance. Nicole Soderholm replied that a permanent disturbance would need to come back for additional review.

Manager Eisele noted the trend of requests tonight for temporary disturbance. Manager Skinner noted that the parcels left for development have wetland buffers and therefore development would most likely require some type of temporary disturbance. Nicole Soderholm noted that these requests deal with routing water and it would be difficult to do that without temporarily disturbing the wetland buffer in these cases.

Manager Eisele asked if this trend were to continue quite commonly, would the District need to consider creating a threshold that would not require separate Board approval for the temporary disturbance. Tina Carstens stated that it would still be wrapped into the permit and therefore would still need to be approved by the Board. She stated that the Board could discuss the variance requirement if desired. Nicole Soderholm stated that it does take some applicants by surprise that a variance is required for temporary disturbance but noted that there is also benefit in requiring the applicant to provide the restoration plan.

President Swope asked where the water currently drains to that would be routed to the pond. He stated that this would seem to send more water into wetland A. Nicole Soderholm stated that this project will reduce runoff rates and overall volume, which is a tall task for a project of this scale. Tina Carstens stated that between the infiltration and ponding that will be added, less water will be going to wetland A.

Motion: Manager Kramer moved, Manager Eisele seconded, to approve Permit #23-03 with variance and special provisions.

A roll call vote was performed:

Manager Skinner	aye
Manager Eisele	aye
Manager Kramer	aye
Manager Ward	aye
President Swope	aye

Motion carried unanimously.

Permit #23-04: Dunkin Donuts – North Saint Paul

Nicole Soderholm stated that this is an existing strip mall on a relatively small site. She stated that the floodplain storage requirements will be met, but the existing strip mall does not meet the District's freeboard requirements from the adjacent pond. She stated that in order to use the building, the applicant would propose a five-foot bump out for the drive-thru. She stated that although the requirements are not met, the situation is not changing as they are reusing the building.

President Swope stated that as long as the applicant is aware, he is fine moving forward.

Manager Skinner asked if the site was previously a gas station and whether there would be an issue with tanks underground. Nicole Soderholm confirmed that it was a gas station but was not aware of any issues with underground tanks as infiltration is not being proposed.

Manager Eisele asked if the site were currently pooling water that would raise concern. Brad Lindaman commented that there is no issue with pooling water in the parking lot that he is aware of. He noted that the site is above floodplain.

Motion: Manager Skinner moved, Manager Eisele seconded, to approve Permit #23-04 with variance and special provisions.

A roll call vote was performed:

Manager Skinner	aye
Manager Eisele	aye
Manager Kramer	aye
Manager Ward	aye
President Swope	aye

Motion carried unanimously.

Permit #23-05: MnDOT I-94 Maintenance and Safety Improvements

Nicole Soderholm described the project which will provide maintenance and safety improvements along I-94. She stated that permanent stormwater treatment will be provided through infiltration. She stated that the Board previously discussed an opportunity to provide funding for a pipe that would run under I-94 and that has been included in the project and is the reason for the variance because of the temporary disturbance. She stated that the pipe would connect Tanners Lake to Battle Creek Lake.

Manager Skinner stated that there is concern with salt in the lakes and asked if there would be an opportunity to collaborate and install a barrier that would prevent salt from entering Battle Creek Lake. Tina Carstens was unsure that type of technology exists but noted that MnDOT has tremendously decreased its use of salt over the last 10 years and is the most highly trained applicators of salt in the state. Nicole Soderholm noted that the filtration would assist in removing the salt as well.

Motion: Manager Ward moved, Manager Kramer seconded, to approve Permit #23-05 with variance and special provisions.

A roll call vote was performed:

Manager Skinner	aye
Manager Eisele	aye
Manager Kramer	aye

Manager Ward            aye  
President Swope        aye

Motion carried unanimously.

Permit #23-06: Xcel Energy Roseville 0802 Line Rebuild – Roseville

President Swope asked for more details on the wetland mats. Nicole Soderholm replied that Xcel would like to begin the project soon as access in the wetlands during the winter is less destructive. She provided details on the mats that are used under equipment to minimize disturbance to the wetland, vegetation, and adjacent areas.

Motion: Manager Eisele moved, Manager Ward seconded, to approve Permit #23-06 with variance and special provisions.

A roll call vote was performed:

Manager Skinner        aye  
Manager Eisele         aye  
Manager Kramer        aye  
Manager Ward          aye  
President Swope        aye

Motion carried unanimously.

B. Monthly Enforcement Report

During January, zero notices were sent.

**7. STEWARDSHIP GRANT PROGRAM (33:43)**

A. Applications – See Consent Agenda

B. Budget Status Update

President Swope noted the differences in the budget showing in January and February. He asked if the Board authorized the additional funds. Tina Carstens stated that she added the carryover from the previous year, as agreed upon by the Board.

**8. ACTION ITEMS - NONE**

**9. ATTORNEY REPORT (35:39)**

Tracey Galowitz thanked President Swope and Manager Ward for their service on the Board, noting that she has enjoyed working with them. She summarized the work that her firm has done in the past month on behalf of the District.

**10. BOARD ISSUES, POLICIES, AND OPERATION (FOR DISCUSSION AT MEETING) (37:21)**

A. Board Action Log: Additions, Deletions

No comments.

B. Inspection/Maintenance Tool Examples

President Swope asked for more details on the culverts and how they are ranked. Brad Lindaman stated that weeds on/in a culvert does not always restrict the flow. He stated that the inlet size of the culvert does not always restrict the flow and provided additional details. Dave Vlasin provided additional details on how culverts are rated, noting that some general maintenance can be completed by District staff and therefore is not ranked on the CIP list for a contractor to complete.

Manager Eisele stated that he would like more information on the normalization that is done with the tool. Tina Carstens confirmed that staff can provide more details on that next month.

Manager Ward commented that it would be helpful to have more information on the normalization that is done with the tool, the maintenance that will be completed by staff, and the entity responsible for the asset. She also asked if areas prone to flooding should receive more frequent inspections.

Manager Skinner stated that she sometimes has concerns with safety in a certain area and asked if District staff could evaluate safety on some of those sites and report back to the Board. Tina Carstens noted that it may be difficult to determine what would be deemed dangerous because it would be based upon the type of flood event and would most likely be the local conveyance system. Brad Lindaman commented that they do not go out to evaluate things that are not part of the District system or part of a permit.

C. Adopt a Culvert Program

President Swope commented on the concept of an adopt a culvert program, where citizens could alert staff if there is an issue with a blocked culvert. He commented that he would not suggest that people clean out the culverts, but simply alert issues. Tina Carstens stated that information can be reported on the “contact us” page of the website and it can be noted more specifically that information can be reported. She stated that the District would not be the entity to respond to the issues in most cases, as it would be the city or county that would be responsible to clean the culvert out.

D. Definition of Native Seed

President Swope stated that it would be helpful to have additional information on native seeds and what is considered as such. Tina Carstens stated that there are seed mixes considered native by MnDOT and may not match what exists on the site but is native.

President Swope stated that it could be helpful to have some of the best practices available on the website for others to find the information.

E. Wetland Workshop

Tina Carstens stated that a date has not yet been finalized as consensus could not be reached on the dates proposed.

F. Ponds of Battle Creek

President Swope recognized that the District is working to develop a policy related to land acquisition. He asked for more details on the potential of property purchase for the specific parcel. Tina Carstens stated that she did not believe that there would be an interest in purchasing the property by the District, but the District would work with the property owner to ensure there is protection of the wetlands and buffers.

G. Board Closed Session

Manager Ward commented that the Board met at 5 p.m. in closed session to complete a performance review of the Administrator as well as a salary adjustment.

**11. NEW REPORTS AND/OR PRESENTATIONS (1:01:20)**

A. Considerations for Per- and Polyfluoroalkyl Substances (PFAS) in the Watershed District Presentation

Brad Lindaman commented that there has been a growing interest from the Board related to PFAS and the potential role of the District.

Nick Palatiello provided background information on PFAS and the work that Barr Engineering has done on the topic over the past 20 years. He provided more information on PFAS, its properties and uses, information on human

health and the environment, and the evolving reach on the health effects of PFAS. He reviewed information on the EPA PFAS Strategic Roadmap and Minnesota PFAS Blueprint, both released in 2021. He stated that part of the Blueprint included the MPCA PFAS monitoring plan and provided more details on that plan. He provided more details on PFAS sources and transport. He identified the related PFAS sites and potential contributors within the District as well as those that may contribute to the watershed but are outside the boundary of the District.

Manager Skinner used the Oakdale example and noted the method that was used to pump it into the air, which would not seem beneficial. Nick Palatiello commented that as science has evolved, this is being addressed in a different manner. It was noted that process was being done prior to the knowledge. He acknowledged that a lot of focus has been on drinking water and groundwater and noted that they are just beginning to address surface water. He reviewed considerations for PFAS in surface and groundwater and explained that testing is complex and expensive. He also provided information on remediation and treatment technologies as well as emerging surface water solutions. He also provided details on who would be responsible to address PFAS. He provided more information on the priority 2 workgroups and grants related to the 3M settlement.

Manager Skinner asked if removal of fish would be a form of contaminate removal. Nick Palatiello commented that the research has not yet been completed on that concept.

President Swope asked if the funds identified is for the operation of the group or for grants. Nick Palatiello replied that is the amount for the grants that will be issued. He noted that the larger pool of funding will be for implementation of drinking water treatment. Evan Christianson provide more details on the priority one and two funding via the settlement.

Nick Palatiello reviewed other potential funding sources and summarized key takeaways.

Manager Eisele stated that it is difficult to gauge how large the problem is because of the lack of ability to measure. Nick Palatiello commented that would be a question for the MPCA but noted that the focus seems to be on the sources and control at those locations. Tina Carstens noted that this would seem to follow a similar path of chloride and mercury, and perhaps there would be opportunities to partner with the MPCA on monitoring and treatment in the future.

President Swope asked if there would be a role for the District at this time. Nick Palatiello commented that the priority two group meetings could provide an opportunity for engagement.

Manager Skinner asked if the District could do work to identify the PFAS levels of fish in the lakes. Nick Palatiello replied that Barr has been advising industrial clients, noting that the goal posts continue to move as more information is learned. He stated that the goals for surface water have not yet been created. He stated that without treatment options, that would simply be collection of data without any answers and that could just create more questions. Tina Carstens noted that it may be too soon to complete that type of exercise. Manager Skinner suggested that the PowerPoint presentation be shared on the District website. Tina Carstens confirmed that she would be putting the information on the website.

Evan Christianson stated that there are waters that have been listed as contaminated with PFAS and perhaps reaching out to those local government agencies may be helpful to determine what they have done with that knowledge.

Manager Skinner asked if there are bacteria that could degrade PFAS. Evan Christianson replied that there is some evidence that could happen, but it is very slow, emerging research that is not well understood as of yet.

Manager Skinner commented that while PFAS has been deemed unsafe, companies create new chemicals to use and asked the process that is used to determine of those materials are safe. She asked if the PFAS levels of fish,

wildlife or the water is known in the watershed. Evan Christianson commented that would be a question for the MPCA as testing has been done in pool two of the Mississippi River.

Manager Skinner asked how the drinking water would be impacted by the changes to the allowable PFAS levels. Evan Christianson commented that would also be addressed by the MPCA.

Manager Skinner asked how PFAS in groundwater has changed in the last decade. Nick Palatiello commented that there is no evidence that it has significantly changed in the last 10 years, although the understanding has changed a lot.

Manager Skinner commented that she is concerned that her drinking water is supplied by the most contaminated well in Oakdale. Evan Christianson provided details on the process followed by the City of Oakdale in its drinking water treatment facility.

Manager Skinner commented that she would love to see some creative grant opportunities to further explore the impacts of PFAS.

**B. South RWMWD Evaluation of Flood Control Options/Resiliency Study for Battle Creek and Fish Creek Drainage Areas**

Brad Lindaman provided a brief overview of the information found in the report.

Manager Eisele asked where Snake Creek is located. Brad Lindaman provided more information noting that it is essentially an outflow of Bailey Nursery.

Manager Ward asked if the proposed CIP projects would be proposed for 2024. Brad Lindaman stated that these would not immediately follow into design. He described the process that would be followed. Tina Carstens stated that this information will be added in to reprioritize. Brad Lindaman noted that an appropriate time to come back would perhaps be June when some of the concepts evolve in modeling and they could discuss related budgeting.

Motion: Manager Eisele moved, Manager Ward seconded, to support the project work plan as presented.

A roll call vote was performed:

Manager Skinner	aye
Manager Eisele	aye
Manager Kramer	aye
Manager Ward	aye
President Swope	aye

Motion carried unanimously.

**12. ADMINISTRATOR'S REPORT (1:57:48)**

**A. Meetings Attended**

No comments.

**B. Upcoming Meetings and Dates**

Tina Carstens provided an overview of the upcoming meeting dates.

Manager Eisele asked if they should begin to plan for the Board tours that are done before Board meetings. Tina Carstens confirmed that she would work with staff to develop a potential plan and sites that could be visited.



C. Ongoing Project Updates

Tina Carstens provided an update on items staff is currently working on.

D. Annual Meeting Reminder

Tina Carstens reminded the Board of the annual meeting, noting that election of officers will be conducted.

E. Minnesota Watershed Updates

Tina Carstens noted the upcoming meetings and noted that if a Manager is interested in attending, the Board could designate them as a delegate.

**13. PROJECT AND PROGRAM STATUS REPORTS (2:05:25)**

*Project Feasibility Studies*

- A. Interim Emergency Response Planning
- B. Kohlman Creek Flood Risk Feasibility Study
- C. Kohlman Creek/Wakefield Lake Diversion Feasibility Study
- D. County Ditch 17 Improvements Feasibility Study
- E. Phalen Village Feasibility Study
- F. Ames Lake Area Flood Risk Reduction Planning Study
- G. Owasso Basin/North Star Estates Improvements
- H. Double Driveway Pond Optimization Study
- I. Carver Ponds Improvement Study
- J. South Metro Mississippi River TSS TMDL

*Research Projects*

- K. Kohlman Permeable Weir Test System
- L. Shallow Lake Aeration Study

*Capital Improvements*

- M. Target Store Stormwater Retrofit Projects
- N. Targeted Retrofit Projects
- O. Stewardship Grant Program Support
- P. Lake Emily Subwatershed Regional BMP
- Q. Pioneer Park Stormwater Reuse

*CIP Project Repair and Maintenance*

- R. Beltline and Battle Creek Inspection
- S. 2023 CIP Maintenance and Repair Project
- T. 2023-2025 BMP Maintenance Program

*New Technology Review*

- U. Edible Plants in Native Plant Community Restoration

*Program Updates*

- V. Natural Resources Program
- W. Public Involvement and Education Program
- X. Communications Program and Website

Manager Eisele referenced Item B and asked for clarification. Brad Lindaman noted that work had previously been started and was paused to determine if flow could be diverted. He commented that in the near future a summary memo would be provided on the direction of the diversion project. Manager Eisele referenced Item C and received confirmation that the memorandum was provided to staff.

Manager Eisele referenced Item H and asked what the Bailey team is. Tina Carstens replied that is the Bailey Nursery.

Manager Eisele referenced Item U noting that it was a nice summary of the plants used. He stated that it appears there are options for edibles, but it would be proposed they would be non-native and perhaps foraging would not be the top priority.

President Swope commented a recent article he read related to carp management and noted that perhaps that could be a future agenda topic to receive an update on the District carp activity.

**14. MANAGER COMMENTS AND NEXT MONTH'S MEETING (2:15:17)**

A. Board Action Log

No comments.

**15. ADJOURN**

Motion: Manager Skinner moved, Manager Eisele seconded, to adjourn the meeting at 8:45 p.m. Motion carried unanimously.

RWMWD BUDGET STATUS REPORT  
Administrative & Program Budget  
Fiscal Year 2023  
2/28/2023

Budget Category	Budget Item	Account Number	Original Budget	Budget Transfers	Current Month Expenses	Year-to-Date Expenses	Current Budget Balance	Percent of Budget
Manager	Per diems	4355	\$7,000.00	-	375.00	375.00	\$6,625.00	5.36%
	Manager expenses	4360	3,000.00	-	-	-	3,000.00	0.00%
Committees	Committee/Bd Mtg. Exp.	4365	3,500.00	-	515.17	749.67	2,750.33	21.42%
	<b>Sub-Total: Managers/Committees:</b>		<b>\$13,500.00</b>	<b>\$0.00</b>	<b>\$890.17</b>	<b>\$1,124.67</b>	<b>\$12,375.33</b>	<b>8.33%</b>
Employees	Staff salary/taxes/benefits	4010	1,860,000.00	-	123,827.17	259,900.32	1,600,099.68	13.97%
	Employee expenses	4020	15,000.00	-	221.19	300.86	14,699.14	2.01%
	District training & education	4350	75,000.00	-	345.02	819.18	74,180.82	1.09%
	<b>Sub-Total: Employees:</b>		<b>\$1,950,000.00</b>	<b>\$0.00</b>	<b>\$124,393.38</b>	<b>\$261,020.36</b>	<b>\$1,688,979.64</b>	<b>13.39%</b>
Administration/Office	GIS system maint. & equip.	4170	10,000.00	-	-	1,257.25	8,742.75	12.57%
	Data Base/GIS Maintenance	4171	20,000.00	-	-	-	20,000.00	0.00%
	Equipment maintenance	4305	2,000.00	-	-	-	2,000.00	0.00%
	Telephone	4310	2,000.00	-	59.34	118.68	1,881.32	5.93%
	Office supplies	4320	7,000.00	-	152.91	618.62	6,381.38	8.84%
	IT/Internet/Web Site/Software Lic.	4325	85,000.00	-	7,155.00	14,110.25	70,889.75	16.60%
	Postage	4330	2,000.00	-	-	-	2,000.00	0.00%
	Printing/copying	4335	5,000.00	-	294.00	992.00	4,008.00	19.84%
	Dues & publications	4338	15,000.00	-	-	12,500.00	2,500.00	83.33%
	Janitorial/Trash Service	4341	15,000.00	-	2,121.34	2,715.34	12,284.66	18.10%
	Utilities/Bldg Contracts	4342	30,000.00	-	705.12	1,146.59	28,853.41	3.82%
	Bldg/Site Maintenance	4343	125,000.00	-	4,990.19	4,997.77	120,002.23	4.00%
	Miscellaneous	4390	5,000.00	-	-	-	5,000.00	0.00%
	Insurance	4480	60,000.00	-	-	-	60,000.00	0.00%
	Office equipment	4703	100,000.00	-	187.00	337.00	99,663.00	0.34%
	Vehicle lease, maintenance	4810-40	20,000.00	-	909.40	909.40	19,090.60	4.55%
	<b>Sub-Total: Administration/Office:</b>		<b>\$503,000.00</b>	<b>\$0.00</b>	<b>\$16,574.30</b>	<b>\$39,702.90</b>	<b>\$463,297.10</b>	<b>7.89%</b>
Consultants/Outside Services	Auditor/Accounting	4110	75,000.00	-	3,637.50	3,960.70	71,039.30	5.28%
	Engineering-administration	4121	132,000.00	-	7,440.49	10,955.49	121,044.51	8.30%
	Engineering-permit I&E	4122	10,000.00	-	-	-	10,000.00	0.00%
	Engineering-eng. review	4123	70,000.00	-	3,588.00	5,262.00	64,738.00	7.52%
	Engineering-permit review	4124	59,000.00	-	8,170.00	9,949.00	49,051.00	16.86%
	Project Feasibility Studies	4129	395,000.00	-	16,778.37	29,979.87	365,020.13	7.59%
	Attorney-permits	4130	5,000.00	-	-	-	5,000.00	0.00%
	Attorney-general	4131	40,000.00	-	1,875.00	4,065.00	35,935.00	10.16%
	Outside Consulting Services	4160	20,000.00	-	-	-	20,000.00	0.00%
	<b>Sub-Total: Consultants/Outside Services:</b>		<b>\$806,000.00</b>	<b>\$0.00</b>	<b>\$41,489.36</b>	<b>\$64,172.06</b>	<b>\$741,827.94</b>	<b>7.96%</b>
Programs	Educational programming	4370	70,000.00	-	2,584.64	2,675.03	67,324.97	3.82%
	Communications & Marketing	4371	50,000.00	-	599.59	689.09	49,310.91	1.38%
	Events	4372	51,000.00	-	634.41	1,275.19	49,724.81	2.50%
	Water QM-Engineering	4520-30	240,000.00	-	3,377.10	3,908.88	236,091.12	1.63%
	Project operations	4650	200,000.00	-	859.41	1,576.88	198,423.12	0.79%
	SLMP/TMDL Studies	4661	142,000.00	-	-	-	142,000.00	0.00%
	Natural Resources/Keller Creek	4670-72	120,000.00	-	418.35	418.35	119,581.65	0.35%
	Outside Prog.Support/Weed Mgmt.	44683	57,000.00	-	-	10,000.00	47,000.00	17.54%
	Research Projects	4695	155,000.00	-	2,528.00	2,678.00	152,322.00	1.73%
	Health and Safety Program	4697	4,000.00	-	29.15	29.15	3,970.85	0.73%
	<b>Sub-Total: Programs:</b>		<b>\$1,089,000.00</b>	<b>\$0.00</b>	<b>\$11,030.65</b>	<b>\$23,250.57</b>	<b>\$1,065,749.43</b>	<b>2.14%</b>
<b>GENERAL FUND TOTAL</b>			<b>\$4,361,500.00</b>	<b>\$0.00</b>	<b>\$194,377.86</b>	<b>\$389,270.56</b>	<b>\$3,972,229.44</b>	<b>8.93%</b>
CIP's	CIP Project Repair & Maintenance	516	1,500,000.00	-	305,773.44	313,073.14	1,186,926.86	20.87%
	Targeted Retrofit Projects	518	1,500,000.00	-	29,782.50	38,429.41	1,461,570.59	2.56%
	Flood Risk Reduction Fund	520	5,200,000.00	-	779.65	880.92	5,199,119.08	0.02%
	Debt Services-96-97 Beltline/MM/Battle Creek	526	395,404.00	-	-	278,086.78	117,317.22	70.33%
	Stewardship Grant Program Fund	529	1,128,000.00	-	4,520.50	5,981.00	1,122,019.00	0.53%
	Double Driveway Water Quality Optimization	537	675,000.00	-	4,829.50	6,313.00	668,687.00	0.94%
	Wetland Restoration Projects	540	500,000.00	-	-	-	500,000.00	0.00%
<b>CIP BUDGET TOTAL</b>			<b>\$10,898,404.00</b>	<b>\$0.00</b>	<b>\$345,685.59</b>	<b>\$642,764.25</b>	<b>\$10,255,639.75</b>	<b>5.90%</b>
<b>TOTAL BUDGET</b>			<b>\$15,259,904.00</b>	<b>\$0.00</b>	<b>\$540,063.45</b>	<b>\$1,032,034.81</b>	<b>\$14,227,869.19</b>	<b>6.76%</b>

Current Fund Balances:

Fund:	Unaudited Beginning Fund Balance @ 12/31/22	Fund Transfers	Year to date Revenue	Current Month Expenses	Year to Date Expense	Unaudited Fund Balance @ 02/28/23
101 - General Fund	\$2,296,909.39	-	39,774.88	194,377.86	389,270.56	1,947,413.71
516 - CIP Project Repair & Maintenance	1,216,839.59	-	12,472.86	305,773.44	313,073.14	916,239.31
518 - Targeted Retrofit Projects	148,393.49	-	-	29,782.50	38,429.41	109,964.08
520 - Flood Damage Reduction Fund	5,021,931.31	-	10,768.35	779.65	880.92	5,031,818.74
526 - Debt Services-96-97 Beltline/MM/Beltline-Battle Creek Tunnel Repair	551,908.60	-	-	-	278,086.78	273,821.82
529 - Stewardship Grant Program Fund	426,529.21	-	-	4,520.50	5,981.00	420,548.21
536 - Stormwater Impact Fund	358,950.00	-	-	-	-	358,950.00
537 - Double Driveway Water Quality Optimization Implementation	-	-	-	4,829.50	6,313.00	(6,313.00)
540 - Wetland Restoration Projects	498,036.00	-	-	-	-	498,036.00
580 - Contingency Fund	1,465,487.00	-	-	-	-	1,465,487.00
<b>Total District Fund Balance</b>	<b>\$11,984,984.59</b>	<b>\$0.00</b>	<b>\$ 63,016.09</b>	<b>\$ 540,063.45</b>	<b>\$1,032,034.81</b>	<b>\$11,015,965.87</b>

RWMWD BUDGET STATUS REPORT  
Administrative & Program Budget  
Fiscal Year 2022  
12/31/2022 - UPDATED 2/22/23

Budget Category	Budget Item	Account Number	Original Budget	Budget Transfers	Current Month Expenses	Year-to-Date Expenses	Current Budget Balance	Percent of Budget
Manager	Per diems	4355	\$8,500.00	-	-	3,534.10	\$4,965.90	41.58%
	Manager expenses	4360	4,000.00	-	-	-	4,000.00	0.00%
Committees	Committee/Bd Mtg. Exp.	4365	3,500.00	-	-	4,385.07	(885.07)	125.29%
	<b>Sub-Total: Managers/Committees:</b>		<b>\$16,000.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$7,919.17</b>	<b>\$8,080.83</b>	<b>49.49%</b>
Employees	Staff salary/taxes/benefits	4010	1,660,000.00	-	-	1,632,871.89	27,128.11	98.37%
	Employee expenses	4020	15,000.00	-	-	7,294.79	7,705.21	48.63%
	District training & education	4350	75,000.00	-	-	33,266.99	41,733.01	44.36%
	<b>Sub-Total: Employees:</b>		<b>\$1,750,000.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$1,673,433.67</b>	<b>\$76,566.33</b>	<b>95.62%</b>
Administration/ Office	GIS system maint. & equip.	4170	10,000.00	-	-	3,134.02	6,865.98	31.34%
	Data Base/GIS Maintenance	4171	40,000.00	-	-	2,478.94	37,521.06	6.20%
	Equipment maintenance	4305	3,000.00	-	-	152.69	2,847.31	5.09%
	Telephone	4310	4,000.00	-	-	712.08	3,287.92	17.80%
	Office supplies	4320	7,000.00	-	-	6,970.89	29.11	99.58%
	IT/Internet/Web Site/Software Lic.	4325	75,000.00	-	-	77,280.44	(2,280.44)	103.04%
	Postage	4330	3,000.00	-	-	1,106.17	1,893.83	36.87%
	Printing/copying	4335	5,000.00	-	-	4,548.40	451.60	90.97%
	Dues & publications	4338	11,000.00	-	-	11,188.94	(188.94)	101.72%
	Janitorial/Trash Service	4341	15,000.00	-	-	11,272.11	3,727.89	75.15%
	Utilities/Bldg.Contracts	4342	30,000.00	-	-	9,463.95	20,536.05	31.55%
	Bldg/Site Maintenance	4343	150,000.00	-	-	117,252.64	32,747.36	78.17%
	Miscellaneous	4390	5,000.00	-	-	-	5,000.00	0.00%
	Insurance	4480	55,000.00	-	-	50,988.96	4,011.04	92.71%
	Office equipment	4703	150,000.00	-	-	16,073.41	133,926.59	10.72%
	Vehicle lease, maintenance	4810-40	20,000.00	-	-	8,822.93	11,177.07	44.11%
	<b>Sub-Total: Administration/Office:</b>		<b>\$583,000.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$321,446.57</b>	<b>\$261,553.43</b>	<b>55.14%</b>
Consultants/ Outside Services	Auditor/Accounting	4110	70,000.00	-	-	56,590.68	13,409.32	80.84%
	Engineering-administration	4121	125,000.00	-	-	82,720.00	42,280.00	66.18%
	Engineering-permit I&E	4122	10,000.00	-	-	4,269.50	5,730.50	42.70%
	Engineering-eng. review	4123	60,000.00	-	-	62,564.50	(2,564.50)	104.27%
	Engineering-permit review	4124	55,000.00	-	-	53,117.50	1,882.50	96.58%
	Project Feasibility Studies	4129	410,000.00	-	-	327,412.88	82,587.12	79.86%
	Attorney-permits	4130	10,000.00	-	-	-	10,000.00	0.00%
	Attorney-general	4131	40,000.00	-	-	21,904.70	18,095.30	54.76%
	Outside Consulting Services	4160	20,000.00	-	-	-	20,000.00	0.00%
	<b>Sub-Total: Consultants/Outside Services:</b>		<b>\$800,000.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$608,579.76</b>	<b>\$191,420.24</b>	<b>76.07%</b>
Programs	Educational programming	4370	75,000.00	-	-	44,764.83	30,235.17	59.69%
	Communications & Marketing	4371	50,000.00	-	-	31,822.23	18,177.77	63.64%
	Events	4372	46,000.00	-	-	51,294.59	(5,294.59)	111.51%
	Water QM-Engineering	4520-30	180,000.00	-	-	221,994.70	(41,994.70)	123.33%
	Project operations	4650	200,000.00	-	-	138,924.88	61,075.12	69.46%
	SLMP/TMDL Studies	4661	125,000.00	-	-	43,819.50	81,180.50	35.06%
	Natural Resources/Keller Creek	4670-72	120,000.00	-	-	113,161.47	6,838.53	94.30%
	Outside Prog.Support/Weed Mgmt.	44683	57,000.00	-	-	20,932.99	36,067.01	36.72%
	Research Projects	4695	225,000.00	-	-	156,203.69	68,796.31	69.42%
	Health and Safety Program	4697	3,000.00	-	-	3,663.18	(663.18)	122.11%
	<b>Sub-Total: Programs:</b>		<b>\$1,081,000.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$826,582.06</b>	<b>\$254,417.94</b>	<b>76.46%</b>
<b>GENERAL FUND TOTAL</b>			<b>\$4,230,000.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$3,437,961.23</b>	<b>\$792,038.77</b>	<b>81.28%</b>
CIP's	CIP Project Repair & Maintenance	516	1,500,000.00	-	-	1,103,845.80	396,154.20	73.59%
	Targeted Retrofit Projects	518	1,500,000.00	-	-	831,346.51	668,653.49	55.42%
	Flood Risk Reduction Fund	520	5,200,000.00	-	-	120,614.83	5,079,385.17	2.32%
	Debt Services-96-97 Beltline/MM/Battle Creek	526	394,710.00	-	-	393,040.40	1,669.60	99.58%
	Stewardship Grant Program Fund	529	1,000,000.00	-	-	774,174.49	225,825.51	77.42%
	Wetland Restoration Projects	540	500,000.00	-	-	-	500,000.00	0.00%
<b>CIP BUDGET TOTAL</b>			<b>\$10,094,710.00</b>	<b>-</b>	<b>\$0.00</b>	<b>\$3,223,022.03</b>	<b>\$6,871,687.97</b>	<b>31.93%</b>
<b>TOTAL BUDGET</b>			<b>\$14,324,710.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$6,660,983.26</b>	<b>\$7,663,726.74</b>	<b>46.50%</b>

Current Fund Balances:

Fund:	Beginning Fund Balance @ 12/31/21	Fund Transfers	Year to date Revenue	Current Month Expenses	Year to Date Expense	Unaudited Fund Balance @ 12/31/22
101 - General Fund	\$2,382,780.20	-	3,352,090.42	-	3,437,961.23	2,296,909.39
516 - CIP Project Repair & Maintenance	162,659.00	-	2,158,026.39	-	1,103,845.80	1,216,839.59
518 - Targeted Retrofit Projects	948,555.00	-	31,185.00	-	831,346.51	148,393.49
520 - Flood Damage Reduction Fund	3,415,744.00	-	1,726,802.14	-	120,614.83	5,021,931.31
526 - Debt Services-96-97 Beltline/MM/Beltline-Battle Creek Tunnel Repair	944,949.00	-	-	-	393,040.40	551,908.60
529 - Stewardship Grant Program Fund	854,750.00	-	345,953.70	-	774,174.49	426,529.21
536 - Stormwater Impact Fund	309,837.00	-	49,113.00	-	-	358,950.00
540 - Wetland Restoration Projects	498,036.00	-	-	-	-	498,036.00
580 - Contingency Fund	1,465,487.00	-	-	-	-	1,465,487.00
<b>Total District Fund Balance</b>	<b>\$10,982,797.20</b>	<b>\$0.00</b>	<b>\$ 7,663,170.65</b>	<b>\$ -</b>	<b>\$6,660,983.26</b>	<b>\$11,984,984.59</b>

**Ramsey Washington Metro Watershed Dist.**  
**Check Register**  
**For the Period From Feb 1, 2023 to Feb 28, 2023**

Check #	Date	Payee ID	Invoice #	Payee	Description	Amount
EFT.02.025	02/01/23	met008	Mar 2023	MetLife-Group Benefits	Employee Benefits	1,836.06
EFT.02.024	02/03/23	hea002	4/1/23	HealthPartners	Employee Benefits	11,940.28
EFT.02.026	02/15/23	nsp001	Feb 2023	Xcel Energy	Project Operations/Flood Damage Reduction	94.65
73621	02/07/23	att002	287256653401X01252023	AT & T Mobility - ROC	Project Operations	332.68
73622	02/07/23	aws001	S1335957-020123	AWS Service Center	Janitorial/Trash/Plowing/Sweeping	327.34
73623	02/07/23	bfg001	2226629-00	BFG Supply Co., LLC	Education	51.20
73624	02/07/23	cit001	007734-000; 007734-001	City of Little Canada	Utilities/Building Services Contracts	114.28
73625	02/07/23	ecs001	348741	ECSI System Integrators	Utilities/Building Services Contracts	360.00
73626	02/07/23	gil001	227340; 225875; 227232	Gilbert Mechanical Contractors, Inc.	Building/Site Maintenance	7,298.59
73627	02/07/23	han008	2156	Hanna Enterprises, LLC	Janitorial/Trash/Plowing/Sweeping	1,200.00
73628	02/07/23	hom001	1/27/23	Home Depot Credit Services	Natural Resources Program	144.92
73629	02/07/23	nsp001	Feb 2023	Xcel Energy	Project Operations	1,444.74
73630	02/07/23	pac001	22100398337	Pace Analytical Services, Inc.	Water Quality Monitoring - Staff	1,362.46
73631	02/07/23	pre003	319183962	Premium Waters, Inc.	Utilities/Building Services Contracts	31.00
73632	02/07/23	sai001	3869	Saint Paul Media	Communications and Marketing	50.00
73633	02/07/23	shi001	B16401719	SHI International Corp.	Equipment	187.00
73634	02/07/23	tro002	22-12	Cathy Troendle	Education	8.57
73635	02/07/23	usb005	493282545	US Bank Equipment Finance	Copier Lease	294.00
73636	02/07/23	voy001	8692934232304	US Bank Voyager Fleet Sys.	Vehicle Fuel	157.02
73637	02/07/23	wil002	2023 WaterFest	Wilderness Inquiry	Events	390.00
73638	02/21/23	ada002	3610568	Adam's Pest Control, Inc.	Utilities/Building Services Contracts	94.72
73639	02/21/23	bar001	January 14 to February 10, 2023	Barr Engineering	Feb Engineering Expenses	95,360.36
73640	02/21/23	cad001	19248184	Zayo Group, LLC	Water Quality Monitoring - Staff	139.65
73641	02/21/23	chr002	22-02 CS	Christ Lutheran Church	Stewardship Grant Program	91,000.00
73642	02/21/23	cit022	22-07 CS	City of Maplewood	Stewardship Grant Program	50,000.00
73643	02/21/23	com004	2/12/23	Comcast	Utilities/Building Services Contracts	105.12
73644	02/21/23	don001	Jan-Feb 2023	Matthew Doneux	Employee Benefits, Expenses	245.53
73645	02/21/23	fit002	Feb-23	Mary Fitzgerald	Employee Benefits, Expenses	70.84
73646	02/21/23	gal001	February 16, 2023	Galowitz Olson, PLLC	Attorney General	1,875.00
73647	02/21/23	gil001	227764 and 227621	Gilbert Mechanical Contractors, Inc.	Building/Site Maintenance	9,267.30
73648	02/21/23	inn002	IN4089963	Innovative Office Solutions LLC	Office Supplies	128.54
73649	02/21/23	int001	W23010476	Office of MN, IT Services	Telephone	59.34
73650	02/21/23	kub001	2/23/23	Kyle W. Kubitz	Employee Benefits	44.26
73651	02/21/23	lea003	15-1004	L. Tracy Leavenworth	Education	2,285.44
73652	02/21/23	mel001	January/February 2023	Michelle L. Melser	Employee Benefits, Expenses	74.06
73653	02/21/23	met011	February 20, 2023	Metro Conservation Districts	Education	143.00
73654	02/21/23	met013	1089; 1098	Metro - INET	Roseville IT Services/Web Site/Software/Licenses	7,155.00
73655	02/21/23	mil003	Progress Payment Number 1	Miller Excavating, Inc.	Construction Improvements/Project Maintenance & Repair	287,500.54
73656	02/21/23	nsp001	51-7512877-1	Xcel Energy	Building/Site Maintenance	4,207.43
73657	02/21/23	pas002	Feb-23	Carol Passi	Employee Benefits, Expenses	110.20
73658	02/21/23	pra001	2304513800	Prairie Moon Nursery, Inc.	Construction Improvements/Project Maintenance & Repair	479.00
73659	02/21/23	qwe001	Feb 10, 2023	CenturyLink	Project Operations	286.73
73660	02/21/23	red002	150476104	Redpath & Company	Accounting	3,637.50
73661	02/21/23	red003	20230210043028	Red Wing Business Advantage Account	Employee Benefits	200.00
73662	02/21/23	shi001	B16433849	SHI International Corp.	Equipment	1,189.00
73663	02/21/23	sig001	INV-39239-reissue	Sign-A-Rama	Vehicle Miscellaneous Expense	630.00
73664	02/21/23	sim001	August 2022-reissue, 2/1/2023	Emily Simmons	Employee Benefits, Expenses	163.28
73665	02/21/23	sod001	Feb 2023	Nicole Soderholm	Employee Benefits	7.74
73666	02/21/23	tim002	M27996	Timesaver Off-Site Secretarial, Inc.	Committee/Board Meeting Exp.	272.25
73667	02/21/23	tro002	23-2	Cathy Troendle	Education	105.00
73668	02/21/23	twi001	53247	Twin City Seed Co.	Construction Improvements/Project Maintenance & Repair	26.40
73669	02/21/23	usb002	February 2023 Statement	U.S. Bank	Jan/Feb Credit Card Expense	2,633.68
73670	02/21/23	van001	March 2023	Vanguard Cleaning Systems of Minnesota	Janitorial/Trash/Plowing/Sweeping	594.00
73671	02/21/23	was002	5941	Washington Conservation District	Stewardship Grant Program	1,302.00
<b>Total</b>						<b>\$589,017.70</b>
EFT	02/03/23	myp001	02/03/23	February 3rd Payroll	4110-101-000	68.10
EFT	02/17/23	myp001	02/17/23	February 17th Payroll	4110-101-000	255.10
Dir.Dep.	02/03/23	---	Payroll Expense-Net	February 3rd Payroll	4010-101-000	27,277.13
EFT	02/03/23	int002	Internal Rev.Serv.	February 3rd Federal Withholding	2001-101-000	9,741.97
EFT	02/03/23	mnd001	MN Revenue	February 3rd State Withholding	2003-101-000	1,722.53
EFT	02/03/23	per001	PERA	February 3rd PERA	2011-101-000	6,090.95
EFT	02/03/23	emp002	Empower Retirement	Employee Def. Comp. Contributions	2016-101-000	2,603.00
EFT	02/03/23	emp002	Empower Retirement	Employee IRA Contributions	2018-101-000	857.00
Dir.Dep.	02/17/23	---	Payroll Expense-Net	February 17th Payroll	4010-101-000	33,321.55
EFT	01/20/23	int002	Internal Rev.Serv.	February 17th Federal Withholding	2001-101-000	12,633.03
EFT	01/20/23	mnd001	MN Revenue	February 17th State Withholding	2003-101-000	2,276.17
EFT	01/20/23	per001	PERA	February 17th PERA	2011-101-000	7,349.98
EFT	01/20/23	emp002	Empower Retirement	Employee Def. Comp. Contributions	2016-101-000	2,603.00
EFT	01/20/23	emp002	Empower Retirement	Employee IRA Contributions	2018-101-000	857.00
<b>Payroll/Benefits:</b>						<b>\$107,656.51</b>
<b>Total</b>						<b>\$696,674.21</b>

**Ramsey Washington Metro Watershed Dist.**  
**Cash Disbursements Journal**  
**For the Period From Feb 1, 2023 to Feb 28, 2023**

Date	Check #	Vendor ID	Name	Account ID	Description	Amount	
02/01/23	EFT.02.025	met008	MetLife-Group Benefits	4040-101-000	Employee Benefits	1,836.06	
02/03/23	EFT.02.024	hea002	HealthPartners	4040-101-000	Employee Benefits	11,940.28	
02/15/23	EFT.02.026	nsp001	Xcel Energy	4343-101-000	Building/Site Maintenance	94.65	
02/07/23	73621	att002	AT & T Mobility - ROC	4650-101-000	Project Operations	332.68	
02/07/23	73622	aws001	AWS Service Center	4341-101-000	Janitorial/Trash/Plowing/Sweeping	327.34	
02/07/23	73623	bfg001	BFG Supply Co., LLC	4370-101-000	Education	51.20	
02/07/23	73624	cit001	City of Little Canada	4342-101-000	Utilities/Building Services Contracts	114.28	
02/07/23	73625	ecs001	ECSI System Integrators	4342-101-000	Utilities/Building Services Contracts	360.00	
02/07/23	73626	gil001	Gilbert Mechanical Contractors, Inc.		Building/Site Maintenance	7,298.59	2022
02/07/23	73627	han008	Hanna Enterprises, LLC	4341-101-000	Janitorial/Trash/Plowing/Sweeping	1,200.00	
02/07/23	73628	hom001	Home Depot Credit Services			144.92	
				4670-101-000	Natural Resources Program		129.95
				4530-101-000	Water Quality Monitoring - Staff		14.97
02/07/23	73629	nsp001	Xcel Energy		Project Operations	1,444.74	
02/07/23	73630	pac001	Pace Analytical Services, Inc.	4530-101-000	Water Quality Monitoring - Staff	1,362.46	
02/07/23	73631	pre003	Premium Waters, Inc.	4342-101-000	Utilities/Building Services Contracts	31.00	
02/07/23	73632	sai001	Saint Paul Media	4371-101-000	Communications and Marketing	50.00	
02/07/23	73633	shi001	SHI International Corp.	4703-101-000	Equipment	187.00	
02/07/23	73634	tro002	Cathy Troendle	4370-101-000	Educational Program-General	8.57	2022
02/07/23	73635	usb005	US Bank Equipment Finance	4335-101-000	Copier Lease	294.00	
02/07/23	73636	voy001	US Bank Voyager Fleet Sys.	4830-101-000	Vehicle Fuel	157.02	
02/07/23	73637	wil002	Wilderness Inquiry	4372-101-000	Events	390.00	
02/21/23	73638	ada002	Adam's Pest Control, Inc.	4342-101-000	Utilities/Building Services Contracts	94.72	
02/21/23	73639	bar001	Barr Engineering			95,360.36	
				4129-101--000	Project Feasibility		190.00
				4121-101-000	Engineering Admin		7440.49
				4129-101-000	Project Feasibility		2794.00
				4123-101-000	Engineer Eng. Rev		3588.00
				4129-101-000	Project Feasibility		100.00
				4129-101-000	Project Feasibility		856.00
				4129-101-000	Project Feasibility		3672.00
				4129-101-000	Project Feasibility		100.00
				4129-101-000	Project Feasibility		100.00
				4128-520-000	Engineering-Flood Damage		685.00
				4129-101-000	Project Feasibility		65.00
				4129-101-000	Project Feasibility		4177.87
				4129-101-000	Project Feasibility		3456.00
				4129-101-000	Project Feasibility		856.00
				4129-101-000	Project Feasibility		411.50
				4520-101-000	WQM-Engineering		90.00
				4520-101-000	WQM-Engineering		102.50
				4520-101-000	WQM-Engineering		140.00
				4124-101-000	Eng. Permit Review		8170.00
				4695-101-000	Research Projects		1950.50
				4695-101-000	Research Projects		577.50
				4650-101-000	Project Operations		240.00

**Ramsey Washington Metro Watershed Dist.**  
**Cash Disbursements Journal**  
**For the Period From Feb 1, 2023 to Feb 28, 2023**

Date	Check #	Vendor ID	Name	Account ID	Description	Amount	
				4128-518-000	Engineering -Targeted Retrofit	945.50	
				4128-518-000	Engineering -Targeted Retrofit	5317.00	
				4682-529-000	Stewardship Grant Program	3218.50	
				4128-518-000	Engineering -Targeted Retrofit	15165.00	
				4128-518-000	Engineering -Targeted Retrofit	8355.00	
				4129-537-000	Driveway Fish Creek Tributary	4829.50	
				4128-516-000	Eng. Projects-Maint & Repair	7898.00	
				4128-516-000	Eng. Projects-Maint & Repair	3103.00	
				4128-516-000	Eng. Projects-Maint & Repair	6766.50	
02/21/23	73640	cad001	Zayo Group, LLC	4530-101-000	Water Quality Monitoring - Staff	139.65	
02/21/23	73641	chr002	Christ Lutheran Church	4682-529-000	Stewardship Grant Program	91,000.00	2022
02/21/23	73642	cit022	City of Maplewood	4682-529-000	Stewardship Grant Program	50,000.00	2022
02/21/23	73643	com004	Comcast	4342-101-000	Utilities/Building Services Contracts	105.12	
02/21/23	73644	don001	Matthew Doneux			245.53	
				4040-101-000	Employee Benefits		80.00
				4020-101-000	Employee Expenses		104.34
				4820-101-000	Vehicle Maint.		61.19
02/21/23	73645	fit002	Mary Fitzgerald			70.84	
				4040-101-000	Employee Benefits		58.25
				4020-101-000	Employee Expenses		12.59
02/21/23	73646	gal001	Galowitz Olson, PLLC	4131-101-000	Attorney General	1,875.00	
02/21/23	73647	gil001	Gilbert Mechanical Contractors, Inc.			9,267.30	
				4530-101-000	Water Quality Monitoring - Staff		1268.13
				4343-101-000	Building/Site Maintenance		7999.17
02/21/23	73648	inn002	Innovative Office Solutions LLC	4320-101-000	Office Supplies	128.54	2022
02/21/23	73649	int001	Office of MN, IT Services	4310-101-000	Telephone	59.34	
02/21/23	73650	kub001	Kyle W. Kubitza			44.26	
				4040-101-000	Employee Benefits		40.00
				4530-101-000	Water QM Staff		4.26
02/21/23	73651	lea003	L. Tracy Leavenworth	4370-101-000	Education	2,285.44	
02/21/23	73652	mel001	Michelle L. Melser			74.06	
				4020-101-000	Employee Expenses		34.06
				4040-101-000	Employee Benefits		40.00
02/21/23	73653	met011	Metro Conservation Districts	4370-101-000	Education	143.00	
02/21/23	73654	met013	Metro - INET	4325-101-000	IT Services/Web Site/Software	7,155.00	
02/21/23	73655	mil003	Miller Excavating, Inc.	4630-516-000	Construction Improvements/Project Mainten	287,500.54	
02/21/23	73656	nsp001	Xcel Energy	4343-101-000	Building/Site Maintenance	4,207.43	
02/21/23	73657	pas002	Carol Passi			110.20	
				4040-101-000	Employee Benefits		40.00
				4020-101-000	Employee Expenses		70.20
02/21/23	73658	pra001	Prairie Moon Nursery, Inc.	4630-516-000	Construction Improvements/Project Mainten	479.00	
02/21/23	73659	qwe001	CenturyLink	4650-101-000	Project Operations	286.73	

**Ramsey Washington Metro Watershed Dist.**  
**Cash Disbursements Journal**  
**For the Period From Feb 1, 2023 to Feb 28, 2023**

Date	Check #	Vendor ID	Name	Account ID	Description	Amount	
02/21/23	73660	red002	Redpath & Company	4110-101-000	Accounting	3,637.50	
02/21/23	73661	red003	Red Wing Business Advantage Account	4040-101-000	Employee Benefits	200.00	
02/21/23	73662	shi001	SHI International Corp.	4703-101-000	Equipment	1,189.00	2022
02/21/23	73663	sig001	Sign-A-Rama	4840-101-000	Vehicle Miscellaneous Expense	630.00	
02/21/23	73664	sim001	Emily Simmons			163.28	
				4040-101-000	Employee Expenses		83.28 2022
				4040-101-000	Employee Benefits		40.00 2022
				4040-101-000	Employee Benefits		40.00
02/21/23	73665	sod001	Nicole Soderholm	4040-101-000	Employee Benefits	7.74	
02/21/23	73666	tim002	Timesaver Off-Site Secretarial, Inc.	4365-101-000	Committee/Board Meeting Exp.	272.25	
02/21/23	73667	tro002	Cathy Troendle	4370-101-000	Education	105.00	
02/21/23	73668	twi001	Twin City Seed Co.	4630-516-000	Construction Improvements/Project Mainten	26.40	
02/21/23	73669	usb002	U.S. Bank			2,633.68	
				4530-101-000	Water QM Staff		141.74
				4372-101-000	Events		145.00
				4372-101-000	Events		29.00
				4840-101-000	Vehicle Miscellaneous Expense		61.19
				4350-101-000	Training & Educ.		91.25
				4320-101-000	Office Supplies		13.18
				4040-101-000	Employee Benefits		192.80
				4320-101-000	Office Supplies		97.00
				4040-101-000	Employee Benefits		74.85
				4371-101-000	Communications & Marketing		315.14
				4697-101-000	Health & Safety Program		29.15
				4530-101-000	Water QM Staff		13.49
				4365-101-000	Committee/Board Meeting Exp.		115.20
				4371-101-000	Communications & Marketing		194.95
				4343-101-000	Bldg./Site Maintenance		44.78
				4350-101-000	Training & Educ.		138.77
				4670-101-000	Natural Resources Project		10.22
				4320-101-000	Office Supplies		50.00
				4365-101-000	Committee/Board Meeting Exp.		127.72
				4530-101-000	Water QM Staff		99.90
				4343-101-000	Bldg./Site Maintenance		19.49
				4371-101-000	Communications & Marketing		39.50
				4320-101-000	Office Supplies		113.84
				4670-101-000	Natural Resources Project		257.74
				4350-101-000	Training & Educ.		115.00
				4320-101-000	Office Supplies		1.94
				4320-101-000	Office Supplies		9.99
				4670-101-000	Natural Resources Project		10.22
				4670-101-000	Natural Resources Project		10.22
				4372-101-000	Events		24.99
				4372-101-000	Events		38.98
				4372-101-000	Events		6.44



**Ramsey Washington Metro Watershed Dist.**  
**Cash Disbursements Journal**  
**For the Period From Feb 1, 2023 to Feb 28, 2023**

Date	Check #	Vendor ID	Name	Account ID	Description	Amount
02/21/23	73670	van001	Vanguard Cleaning Systems of Minnesota	4341-101-000	Janitorial/Trash/Plowing/Sweeping	594.00
02/21/23	73671	was002	Washington Conservation District	4682-529-000	Stewardship Grant Program	1,302.00
<b>Total</b>						<b><u>\$589,017.70</u></b>
02/03/23	EFT	myp001	February 3rd Payroll	4110-101-000	February 3rd Payroll	68.10
02/17/23	EFT	myp001	February 17th Payroll	4110-101-000	February 17th Payroll	255.10
02/03/23	Dir.Dep.	---	February 3rd Payroll	4010-101-000	February 3rd Payroll	27,277.13
02/03/23	EFT	int002	February 3rd Federal Withholding	2001-101-000	February 3rd Federal Withholding	9,741.97
02/03/23	EFT	mnd001	February 3rd State Withholding	2003-101-000	February 3rd State Withholding	1,722.53
02/03/23	EFT	per001	February 3rd PERA	2011-101-000	February 3rd PERA	6,090.95
02/03/23	EFT	emp002	Employee Def. Comp. Contributions	2016-101-000	Employee Def. Comp. Contributions	2,603.00
02/03/23	EFT	emp002	Employee IRA Contributions	2018-101-000	Employee IRA Contributions	857.00
02/17/23	Dir.Dep.	---	February 17th Payroll	4010-101-000	February 17th Payroll	33,321.55
01/20/23	EFT	int002	February 17th Federal Withholding	2001-101-000	February 17th Federal Withholding	12,633.03
01/20/23	EFT	mnd001	February 17th State Withholding	2003-101-000	February 17th State Withholding	2,276.17
01/20/23	EFT	per001	February 17th PERA	2011-101-000	February 17th PERA	7,349.98
01/20/23	EFT	emp002	Employee Def. Comp. Contributions	2016-101-000	Employee Def. Comp. Contributions	2,603.00
01/20/23	EFT	emp002	Employee IRA Contributions	2018-101-000	Employee IRA Contributions	857.00
<b>Payroll/Benefits:</b>						<b><u>\$107,656.51</u></b>
<b>Total</b>						<b><u>Accounts Payable/Payroll/Benefits: \$696,674.21</u></b>




**Summary of Professional Engineering Services During the Period  
January 14, 2023 through February 10, 2023**

	Total Engineering Budget (2023)	Total Fees to Date (2023)	Budget Balance (2023)	Fees During Period	District Accounting Code	Plan Implementation Task Number
<b>Engineering Administration</b>						
General Engineering Administration	\$87,000.00	\$10,955.49	\$76,044.51	\$7,440.49	4121-101	DW-13
RWMWD Health and Safety/ERTK Program	\$2,000.00	\$0.00	\$2,000.00	\$0.00	4697-101	DW-13
Educational Program/Educational Forum Assistance	\$20,000.00	\$702.50	\$19,297.50	\$190.00	4129-101	DW-11
Topical Workshop, Education, and Planning	\$25,000.00	\$2,794.00	\$22,206.00	\$2,794.00	4129-101	DW-13
<b>Engineering Review</b>						
Engineering Review	\$70,000.00	\$5,262.00	\$64,738.00	\$3,588.00	4123-101	DW-13
<b>Project Feasibility Studies</b>						
Emergency Response Plans (communication with cities from 2021 and 2022 efforts)	\$15,000.00	\$920.00	\$14,080.00	\$100.00	4129-101	DW-19
Kohiman Creek flood damage reduction feasibility study	\$75,000.00	\$856.00	\$74,144.00	\$856.00	4129-101	DW-9, KC-2, BELT-3
Kohiman Creek- Wakefield Lake Diversion Planning and Design	\$111,600.00	\$5,293.50	\$106,306.50	\$3,672.00	4129-101	DW-9, KC-2, BELT-3
Improvements to County Ditch 17	\$5,000.00	\$100.00	\$4,900.00	\$100.00	4129-101	DW-9, BELT-3
Improvements to Phalen Village	\$5,000.00	\$100.00	\$4,900.00	\$100.00	4129-101	DW-9, BELT-3
Ames Lake Technical Assistance and Project Planning with St. Paul	\$40,000.00	\$0.00	\$40,000.00	\$0.00	4129-101	DW-9, BELT-3
Resiliency Study for non-Beltline tributary areas (pre-planning study and evaluation of existing data)	\$150,000.00	\$752.50	\$149,247.50	\$685.00	4128-520	DW-9
Evaluate compliance with South Metro Mississippi River TSS TMDL	\$5,000.00	\$65.00	\$4,935.00	\$65.00	4129-101	MR-2
Owasso Basin area/North Star Estates improvements (with City of Little Canada)	\$30,000.00	\$10,960.87	\$19,039.13	\$4,177.87	4129-101	GC-3
Street Sweeping	\$20,000.00	\$5,206.50	\$14,793.50	\$3,456.00	4129-101	DW-6, DW-15
Retrofit Inventory	\$20,000.00	\$1,153.50	\$18,846.50	\$856.00	4129-101	DW-17, DW-20
Wetland Restoration Workshop, Education, and Planning	\$5,000.00	\$1,828.00	\$3,172.00	\$411.50	4129-101	DW-8, DW-13
Contingency*	\$30,000.00				4129-101	
<b>GIS Maintenance</b>						
GIS Maintenance	\$5,000.00	\$0.00	\$5,000.00	\$0.00	4170-101	DW-13
<b>Monitoring Water Quality/Project Monitoring</b>						
Lake Water Quality Monitoring (Misc QA/QC)	\$10,000.00	\$90.00	\$9,910.00	\$90.00	4520-101	DW-2
Annual WQ Report Assistance	\$12,000.00	\$102.50	\$11,897.50	\$102.50	4520-101	DW-2
Special Project BMP Monitoring	\$25,000.00	\$382.50	\$24,617.50	\$140.00	4520-101	DW-12
Grass Lake Berm Wetland Monitoring	\$12,000.00	\$150.00	\$11,850.00	\$0.00	4520-101	DW-5, DW-8
Battle Creek Monitoring to address TMDL	\$15,000.00	\$0.00	\$15,000.00	\$0.00	4520-101	DW-1, DW-2
<b>Permit Processing, Inspection and Enforcement</b>						
Permit Application Inspection and Enforcement	\$10,000.00	\$0.00	\$10,000.00	\$0.00	4122-101	DW-7
Permit Application Review	\$59,000.00	\$1,779.00	\$57,221.00	\$8,170.00	4124-101	DW-7
<b>Lake Studies/TMDL Reports</b>						
West Vadnais Lake Incorporation	\$15,000.00	\$0.00	\$15,000.00	\$0.00	4661-101	DW-2
2023 Grant Applications	\$40,000.00	\$0.00	\$40,000.00	\$0.00	4661-101	DW-13
WMP Updates - Including Implementation Plan Updates if needed	\$20,000.00	\$0.00	\$20,000.00	\$0.00	4661-101	DW-13
Prioritization of water quality projects from subwatershed feasibility studies	\$5,000.00	\$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		
<b>Research Projects</b>						
New Technology Mini Case Studies (average 6 per year)	\$15,000.00	\$1,950.50	\$13,049.50	\$1,950.50	4695-101	DW-12
Kohiman Permeable Weir Test System - Implement Monitoring Plan	\$5,000.00	\$150.00	\$4,850.00	\$0.00	4695-101	DW-12
Shallow Lake Aeration Study	\$40,000.00	\$577.50	\$39,422.50	\$577.50	4695-101	DW-12
<b>Project Operations</b>						
2023 Tanners Alum Facility Monitoring	\$17,000.00	\$240.00	\$16,760.00	\$240.00	4650-101	TaL-3
Phalen/Keller and Twin Operations Support & Communications	\$5,000.00	\$0.00	\$5,000.00	\$0.00	4650-101	DW-5, DW-13
Lake Level Station Operation and Maintenance (add rain gauges?)	\$50,000.00	\$0.00	\$50,000.00	\$0.00	4650-101	DW-5
<b>Capital Improvements</b>						
Tanners Outlet	\$5,000.00	\$0.00	\$5,000.00	\$0.00	4128-520	DW-9
Woodbury Target	\$180,000.00	\$20,866.50	\$159,133.50	\$945.50	4128-518	DW-6
Targeted Retrofit Projects 2023	\$150,000.00	\$6,814.00	\$143,186.00	\$5,317.00	4128-518	DW-6
Stewardship Grant Program	\$75,000.00	\$4,679.00	\$70,321.00	\$3,218.50	4682-529	DW-6
West Industrial Park Berm and associated improvements	\$300,000.00	\$0.00	\$300,000.00	\$0.00	4128-520	GC-3
Lake Emily Subwatershed BMP	\$160,000.00	\$80,295.76	\$79,704.24	\$15,165.00	4128-518	LE-3
Pioneer Park Stormwater Reuse	\$151,200.00	\$20,136.04	\$131,063.96	\$8,355.00	4128-518	DW-6
Double Driveway and Fish Creek Tributary Improvements	\$112,200.00	\$6,313.00	\$105,887.00	\$4,829.50	4129-537	FC-2
<b>CIP Project Repair &amp; Maintenance</b>						
Routine CIP Inspection and Unplanned Maintenance Identification	\$125,000.00	\$9,540.50	\$115,459.50	\$7,898.00	4128-516	DW-5
Beltline 5-year Inspection	\$15,000.00	\$3,103.00	\$11,897.00	\$3,103.00	4128-516	BELT-2
2023 CIP Maintenance and Repairs	\$165,000.00	\$47,639.90	\$117,360.10	\$6,766.50	4128-516	DW-5

**\$95,360.36**

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


  
Bradley J. Lindaman, Vice President

**2023 Capitol Improvemet Project (CIP) Progress Payment Number 1**


1.0	Total Completed Through This Period:	<u>\$302,632.15</u>	
2.0	Total Completed Previously Completed:	<u>\$0.00</u>	
3.0	Total Completed This Period:		<u>\$302,632.15</u>
4.0	Amount Previously Retained:	<u>\$0.00</u>	
5.0	Amount Retained This Period (See Note 1):		<u>\$15,131.61</u>
6.0	Total Amount Retained (See Note 1):	<u>\$15,131.61</u>	
7.0	Retainage Released Through This Period:		<u>\$0.00</u>
8.0	Total Retainage Remaining:	<u>\$15,131.61</u>	
9.0	Amounts Previously Paid:	<u>\$0.00</u>	
10.0	Amount Due This Estimate:		<u><u>\$287,500.54</u></u>

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

SUBMITTED BY:

Name: Steve St. Claire Date: 2/16/23  
Title: President  
Contractor: Miller Excavating, Inc.  
Signature: 

RECOMMENDED BY:

Name: Brad Lindaman Date: 2/22/2023  
Title: District Engineer  
Engineer: Barr Engineering Company  
Signature: 

APPROVED BY:

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

**2023 Capital Improvement Project (CIP)**  
**Ramsey-Washington Metro Watershed District**  
**Summary of Work Completed Through February 14, 2023 for Progress Payment Number 1**

						(1) Total Completed Through This Period		(2) Total Completed Previous Period		(3) Total Completed This Period	
Item	Description	Unit	Estimated Quantity	Unit Price	Extension	Quantity	Amount	Quantity	Amount	Quantity	Amount
General											
A	Mobilization/Demobilization	L.S.	1	\$32,668.83	\$32,668.83	0.50	\$16,334.42	0.00	\$0.00	0.50	\$16,334.42
B	Control of Water	L.S.	1	\$11,998.46	\$11,998.46	0.50	\$5,999.23	0.00	\$0.00	0.50	\$5,999.23
C	Traffic Control	L.S.	1	\$5,833.16	\$5,833.16	0.50	\$2,916.58	0.00	\$0.00	0.50	\$2,916.58
Site 1 - Tamarack Swamp, Woodbury (PFS Basins Cleaning/Sweeping)											
D	Sediment/Muck Cleanout Excavation, Loading, Hauling and Disposal of Regulated Material (SRV Level 2 and 3)	Ton	92	\$141.58	\$13,025.36	0	\$0.00	0	\$0.00	0	\$0.00
E	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	100	\$9.68	\$968.00	0	\$0.00	0	\$0.00	0	\$0.00
F	Sediment Log (9-Inch Diameter)	L.F.	60	\$6.61	\$396.60	0	\$0.00	0	\$0.00	0	\$0.00
G	Paver Sweeping	S.Y.	1,400	\$3.34	\$4,676.00	0	\$0.00	0	\$0.00	0	\$0.00
Site 2 - Tanners Wetland, Oakdale (Wetland Weir Maintenance)											
D	Sediment/Muck Cleanout Excavation, Loading, Hauling and Disposal of Regulated Material (SRV Level 2 and 3)	Ton	250	\$136.94	\$34,235.00	0	\$0.00	0	\$0.00	0	\$0.00
E	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	210	\$13.32	\$2,797.20	0	\$0.00	0	\$0.00	0	\$0.00
J	Permeable Weir Maintenance (Reopening Drainage Slots and Remove all Brush and Debris)	L.F.	580	\$14.04	\$8,143.20	0	\$0.00	0	\$0.00	0	\$0.00
M	Construction Entrance	Each	1	\$1,316.48	\$1,316.48	0	\$0.00	0	\$0.00	0	\$0.00
Site 3 - 5th Street Wetland, Oakdale (Wetland Weir Maintenance)											
E	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	210	\$13.32	\$2,797.20	1,213	\$16,157.16	0	\$0.00	1,213	\$16,157.16
J	Permeable Weir Maintenance (Reopening Drainage Slots and Remove all Brush and Debris)	L.F.	65	\$37.72	\$2,451.80	0	\$0.00	0	\$0.00	0	\$0.00
W	Sediment/Muck Cleanout Excavation with On-Site Disposal	L.S.	1	\$6,213.07	\$6,213.07	1	\$6,213.07	0	\$0.00	1	\$6,213.07
Site 4 - Gervais Mill Park, Little Canada (Mill Pond Filter Maintenance)											
E	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	400	\$9.69	\$3,876.00	0	\$0.00	0	\$0.00	0	\$0.00
H	Remove Existing 1 ½" to 2" Filter Rock	L.S.	1	\$2,470.52	\$2,470.52	0	\$0.00	0	\$0.00	0	\$0.00
I	Clear Washed Filter Rock	Ton	50	\$89.51	\$4,475.50	0	\$0.00	0	\$0.00	0	\$0.00
L	Flotation Silt Curtain	L.F.	45	\$33.84	\$1,522.80	0	\$0.00	0	\$0.00	0	\$0.00
O	Composite Mud Mats	S.Y.	100	\$47.24	\$4,724.00	0	\$0.00	0	\$0.00	0	\$0.00
Site 4 - Gervais Mill Park, Little Canada (Steep Slope Repair)											
E	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	150	\$23.83	\$3,574.50	0	\$0.00	0	\$0.00	0	\$0.00
F	Sediment Log (9-Inch Diameter)	L.F.	40	\$13.51	\$540.40	0	\$0.00	0	\$0.00	0	\$0.00
M	Construction Entrance	Each	1	\$1,316.48	\$1,316.48	0	\$0.00	0	\$0.00	0	\$0.00
P	Clearing and Grubbing	L.S.	1	\$2,767.48	\$2,767.48	0	\$0.00	0	\$0.00	0	\$0.00
V	Repair Slope with Imported Soils and Grading	L.S.	1	\$8,277.21	\$8,277.21	0	\$0.00	0	\$0.00	0	\$0.00
X	Pressure Clean Drainage Pipe System	L.S.	1	\$2,987.71	\$2,987.71	0	\$0.00	0	\$0.00	0	\$0.00
Y	Furnish and Install Cone Grate	Each	2	\$285.91	\$571.82	0	\$0.00	0	\$0.00	0	\$0.00
Z	MN/DOT Class II Riprap (Field Stone) with Geotextile Filter Fabric	Ton	30.0	\$99.69	\$2,990.70	0.0	\$0.00	0.0	\$0.00	0.0	\$0.00

**2023 Capital Improvement Project (CIP)**  
**Ramsey-Washington Metro Watershed District**  
**Summary of Work Completed Through February 14, 2023 for Progress Payment Number 1**

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

**2023 Capital Improvement Project (CIP)**  
**Ramsey-Washington Metro Watershed District**  
**Summary of Work Completed Through February 14, 2023 for Progress Payment Number 1**

						(1) Total Completed Through This Period		(2) Total Completed Previous Period		(3) Total Completed This Period	
Item	Description	Unit	Estimated Quantity	Unit Price	Extension	Quantity	Amount	Quantity	Amount	Quantity	Amount
Site 9 - Century Ave. South, Woodbury (SC275)											
D	Sediment/Muck Cleanout Excavation, Loading, Hauling and Disposal of Regulated Material (SRV Level 2 and 3)	Ton	400	\$70.88	\$28,352.00	446	\$31,612.48	0	\$0.00	446	\$31,612.48
E	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	170	\$16.17	\$2,748.90	690	\$11,157.30	0	\$0.00	690	\$11,157.30
F	Sediment Log (9-Inch Diameter)	L.F.	20	\$11.34	\$226.80	0	\$0.00	0	\$0.00	0	\$0.00
K	Remove Select Tree	Each	2	\$1,193.99	\$2,387.98	2	\$2,387.98	0	\$0.00	2	\$2,387.98
L	Flotation Silt Curtain	L.F.	70	\$17.41	\$1,218.70	0	\$0.00	0	\$0.00	0	\$0.00
O	Composite Mud Mats	S.Y.	30	\$48.47	\$1,454.10	30	\$1,454.10	0	\$0.00	30	\$1,454.10
P	Clearing and Grubbing	L.S.	1	\$3,700.33	\$3,700.33	1	\$3,700.33	0	\$0.00	1	\$3,700.33
Z	MN/DOT Class III Riprap (Field Stone) with Geotextile Filter Fabric	Ton	30.0	\$101.37	\$3,041.10	17.0	\$1,723.29	0.0	\$0.00	17.0	\$1,723.29
Site 10 - Aspen Circle, Little Canada (Aspen Pond)											
D	Sediment/Muck Cleanout Excavation, Loading, Hauling and Disposal of Regulated Material (SRV Level 2 and 3)	Ton	1770	\$71.50	\$126,555.00	1,842	\$131,703.00	0	\$0.00	1,842	\$131,703.00
E	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	300	\$12.51	\$3,753.00	300	\$3,753.00	0	\$0.00	300	\$3,753.00
N	Temporary Rock Filter Dike	Ton	10	\$114.21	\$1,142.10	0	\$0.00	0	\$0.00	0	\$0.00
O	Composite Mud Mats	S.Y.	30	\$48.47	\$1,454.10	30	\$1,454.10	0	\$0.00	30	\$1,454.10
Z	MN/DOT Class III Riprap (Field Stone) with Geotextile Filter Fabric	Ton	30.0	\$89.61	\$2,688.30	18.5	\$1,657.79	0.0	\$0.00	18.5	\$1,657.79
Contract Base Extensions =					\$517,633.33	\$296,197.70		\$0.00		\$296,197.70	
Change Order 1											
C.O.1.A	Site 10 Storm Pipe Extension	L.S.	1	\$4,247.45	\$4,247.45	1	\$4,247.45	0	\$0.00	1	\$4,247.45
C.O.1.B	Sediment Log (6-Inch Diameter)	L.F.	243	\$9.00	\$2,187.00	243	\$2,187.00	0	\$0.00	243	\$2,187.00
Change Order Extensions =					\$6,434.45	\$6,434.45		\$0.00		\$6,434.45	
Contract Grand Total =					\$524,067.78	\$302,632.15		\$0.00		\$302,632.15	

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

Page: 1  
February 16, 2023  
File No: 9M

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

	Balance
General Account	<u>\$1,875.00</u>

# Permit Application Coversheet

Date March 01, 2023

Project Name White Bear Lake High School South Baseball Fi Project Number 23-07

Applicant Name Kevin Fernandez, ISD 624- White Bear Lake Area Schools

Type of Development Institutional

## Property Description

This project is located at the existing White Bear Lake High School South Campus off McKnight Road North in the City of White Bear Lake. The applicant is proposing to construct a baseball field and trail. The total site area is 3.8 acres. The applicant is proposing to utilize extra stormwater treatment provided during previous phases of the campus redevelopment (Permits #20-23, 21-08) to meet permit requirements. The previously issued permits remain open and active. RWMWD Permit staff will ensure at project close-out that the constructed BMPs are built per plan and functioning properly such that all phases of construction meet treatment requirements.

## Watershed District Policies or Standards Involved:

- ☐ *Wetlands* ☒ *Erosion and Sediment Control*  
☒ *Stormwater Management* ☐ *Floodplain*

## Water Quantity Considerations

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

## Water Quality Considerations

### *Short Term*

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

### *Long Term*

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

## Staff Recommendation

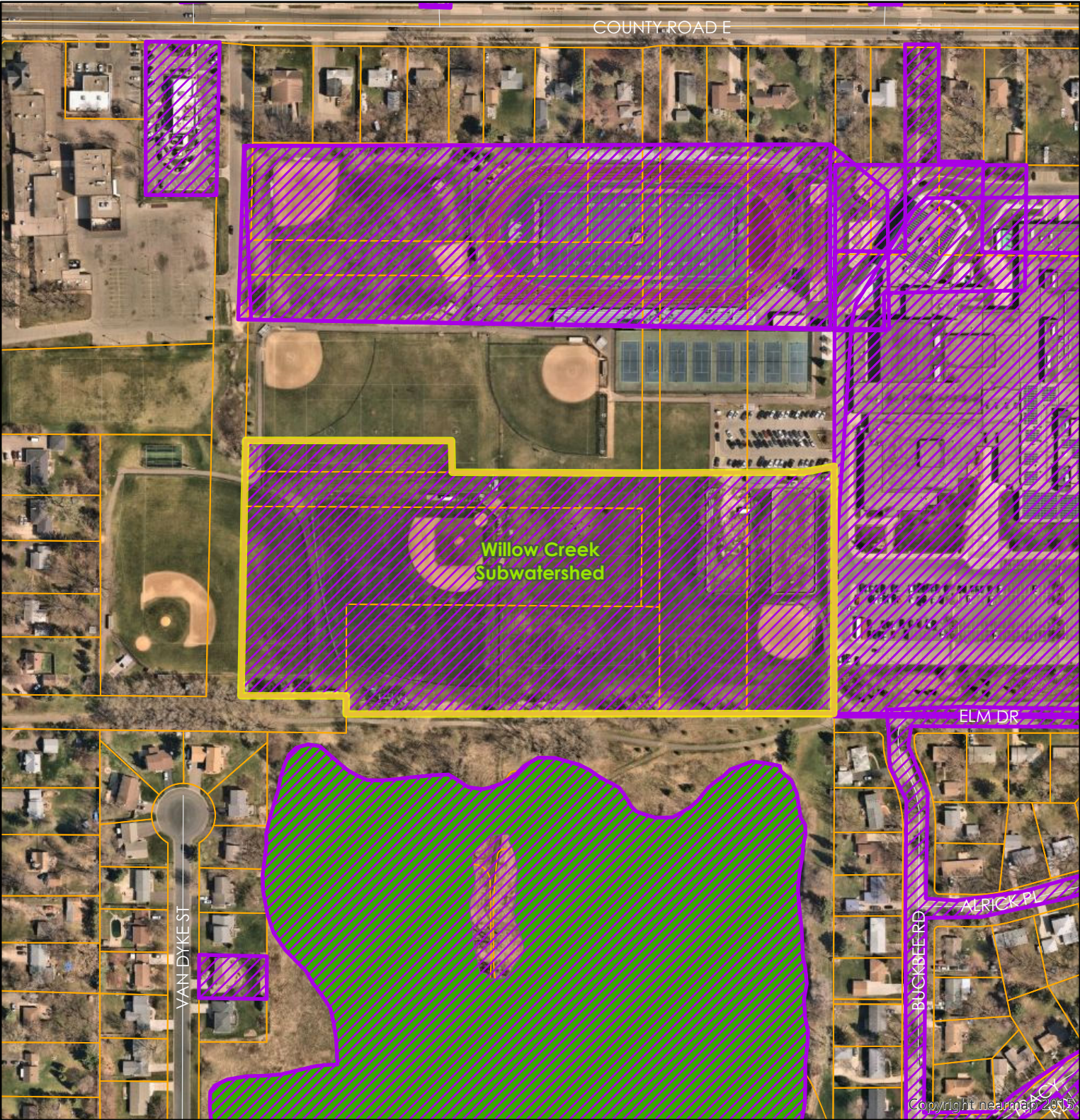
Staff recommends approval of this permit with the special provisions.

## Attachments:

- ☒ Project Location Map  
☒ Project Grading Plan



# #23-07 White Bear Lake High School South Baseball Field



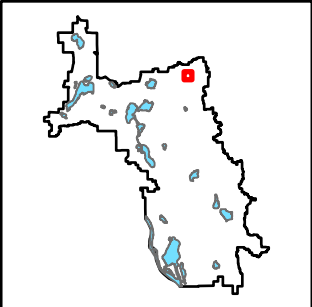
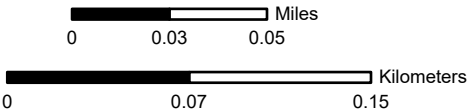
**Wetlands**

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

**Roads**

- Permits
- Cities
- Subwatersheds
- ParcelsRamsey
- RWMWD Boundary

Highlighted Areas  
Represent Active Permit



### Special Provisions

1. The applicant shall submit a site-specific Stormwater Pollution Prevention Plan (SWPPP) that meets NPDES permit requirements.
2. The applicant shall add notes to the plans:
  - A. Notify Nicole Soderholm, Ramsey-Washington Metro Watershed District, at 651-792-7976 prior to beginning construction activity in order to schedule an initial SWPPP inspection.
  - B. The proposed erosion and sediment control practices are the minimum. Additional practices may be required during the course of construction.
3. The applicant shall submit the final, signed plans set.
4. The applicant shall submit record drawings including grading and utility as-builts for stormwater BMPs that have been constructed and are proposed to meet this project's rate and volume requirements.
5. The applicant shall submit contact information for the trained erosion control coordinator responsible for implementing the SWPPP.
6. The applicant shall submit a copy of the approved Minnesota Pollution Control Agency's NPDES Construction Permit coverage for the project.





# Permit Application Coversheet

Date June 03, 2020

Project Name White Bear Lake High School South Gym

Project Number 20-23

Applicant Name Tim Wald, ISD 624

Type of Development Institutional

## Property Description

This project is located at the existing White Bear Lake High School South campus off McKnight Road. The applicant is proposing to construct a new gym addition, reroute an existing access road, and associated stormwater and utilities improvements. The total site area is 1.1 acres. An infiltration basin is proposed to meet stormwater treatment requirements. Pretreatment will include a Rain Guardian inlet.

## 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

# Permit Application Coversheet

Date April 07, 2021

Project Name White Bear Lake High School South Phase 2 Project Number 21-08

Applicant Name Tim Wald, ISD 624

Type of Development Institutional

## Property Description

This project is located at White Bear Lake High School South, at County Road E East and McKnight Road North in the City of White Bear Lake. This is the second phase of proposed improvements to the school (Phase 1 Permit #20-23). This phase consists of two building additions, parent drop-off lane, and parking reconfiguration. Stormwater treatment requirements will be met through construction of a filtration and infiltration basin. The proposed filtration basin is an existing BMP that will be expanded to account for additional impervious area. Pretreatment includes Rain Guardian sumped inlets.

## Watershed District Policies or Standards Involved:

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

## Water Quantity Considerations

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

## Water Quality Considerations

### *Short Term*

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

### *Long Term*

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

## Staff Recommendation

Staff recommends approval of this permit with the special provisions.

## Attachments:

- ☒ Project Location Map
- ☒ Project Grading Plan

## Stewardship Grant Application Summary

**Project Name:** DeLong

**Application Number** 23-04 CS

**Board Meeting Date:** 3/1/2023

**Applicant Name:** Zachary DeLong

**Residential** ☒

**Commercial/Government** ☐

### Project Overview:

This project is located off Jansa Drive and Galtier Street in the City of Shoreview. The applicant is proposing to install a curb cut rain garden to capture runoff from Jansa Drive. The rain garden is eligible for 75% grant coverage with the curb cut costs being eligible for 100% coverage. The applicant is also proposing to remove the turf grass from about 1/3 of their front yard (1,170 sq ft) and replace with native plantings. This portion is eligible for 50% coverage. The maximum dollar amount this project is eligible for is \$15,000.

### BMP type(s):

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

### Grant Request:

\$10,000.00

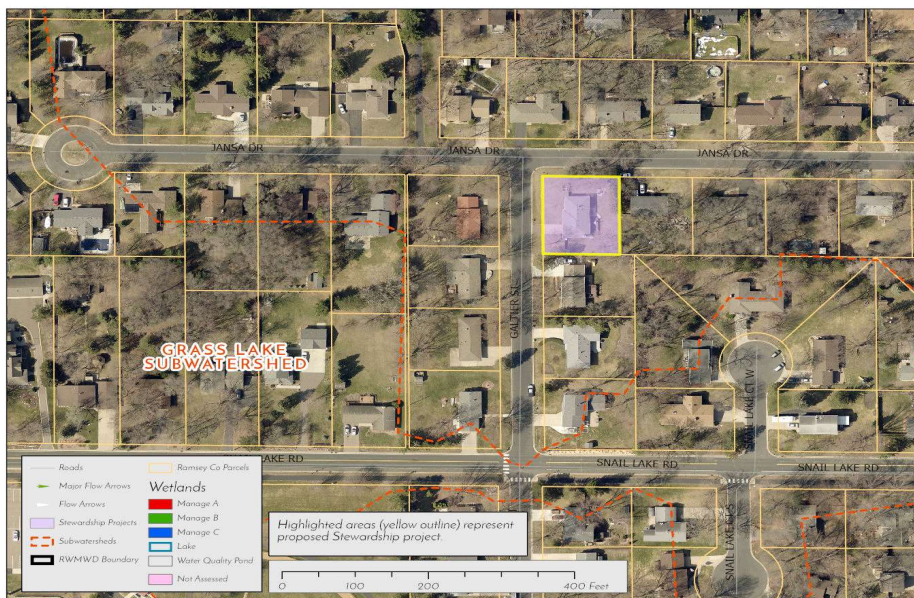
### Recommendation:

Staff recommends approval of this application.

### Subwatershed:

Outside Subwatershed

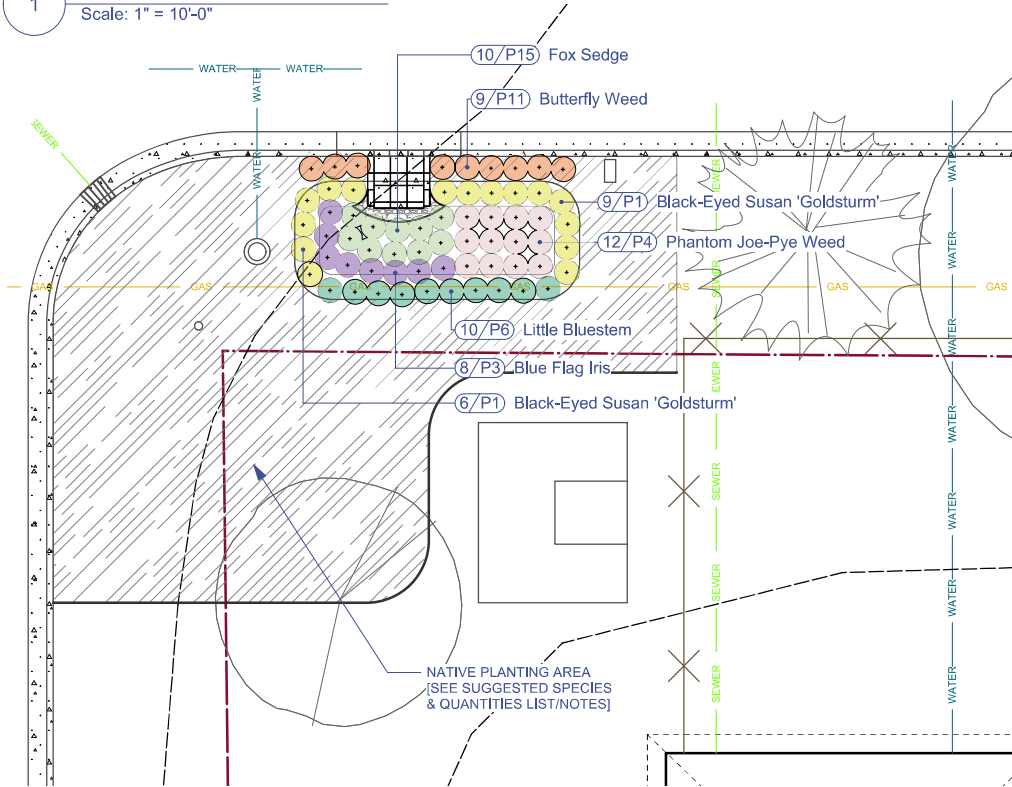
### Location Maps:



1

## RAINGARDEN PLANTING PLAN

Scale: 1" = 10'-0"



## RAINGARDEN PLANT SCHEDULE

ID	Qty	Latin Name	Common Name	Size	Spacing
P1	15	Rudbeckia hirta 'Goldsturm'	Black-Eyed Susan 'Goldsturm'	4" Pot	24" O.C.
P3	8	Iris versicolor	Blue Flag Iris	4" Pot	24" O.C.
P4	12	Eupatorium 'Phantom'	Phantom Joe-Pye Weed	4" Pot	24" O.C.
P6	10	Schizachyrium scoparium	Little Bluestem	4" Pot	24" O.C.
P11	9	Asclepias tuberosa	Butterfly Weed	4" Pot	24" O.C.
P15	10	Carex vulpinoidea	Fox Sedge	4" Pot	24" O.C.
	0				
	64	TOTAL PLANTS			

## NATIVE PLANTING SUGGESTED SPECIES &amp; QUANTITIES LIST:

- SUGGESTED NATIVE PLANTING QUANTITIES:
  - NATIVE PERENNIALS: 250 QTY - 2" PLUGS OR EQUIVALENT
  - NATIVE SHRUBS: 7 QTY - 2 GALLON OR EQUIVALENT
- SUGGESTED SPECIES LIST PROVIDED BELOW. RECOMMENDATION IS TO SELECT LOW SPECIES DIVERSITY FOR EASY IDENTIFICATION AND MAINTENANCE. PROVIDE FINAL SPECIES LIST FOR NATIVE PLANTING AREA PRIOR TO PURCHASE AND INSTALLATION FOR APPROVAL.

## Grasses/Sedges/Groundcovers

Latin Name	Common Name
<i>Andropogon gerardii</i>	Big Bluestem
<i>Carex pennsylvanica</i>	Pennsylvania Sedge
<i>Carex sprengei</i>	Sprengel's Sedge
<i>Juncus tenuis</i>	Path Rush
<i>Schizachyrium scoparium</i>	Little Bluestem
<i>Sporobolus heterolepis</i>	Prairie Dropseed

## Forbs

Latin Name	Common Name
<i>Amorpha canescens</i>	Leadplant
<i>Asclepias tuberosa</i>	Butterfly Milkweed
<i>Aster oblongifolius</i>	Aromatic Aster
<i>Aster oolentangiensis</i>	Sky-blue Aster
<i>Coreopsis palmata</i>	Prairie Coreopsis
<i>Dalea purpurea</i>	Purple Prairie Clover
<i>Dicentra spectabilis</i>	Bleeding Heart
<i>Echinacea purpurea</i>	Purple Coneflower
<i>Fragaria virginiana</i>	Wild Strawberry
<i>Geum triflorum</i>	Prairie Smoke
<i>Lupinus perennis</i>	Wild Blue Lupine
<i>Penstemon grandiflorus</i>	Large Beard-tongue
<i>Pulsatilla patens</i>	Pasque Flower
<i>Rudbeckia hirta</i>	Black-Eyed Susan
<i>Spirea alba</i>	Meadowsweet
<i>Viola pubescens</i>	Downy Yellow Violet

## Shrubs

<i>Diervilla lonicera</i>	Dwarf Bush Honeysuckle
<i>Rhus aromatica 'Gro-Low'</i>	Gro-Low Sumac



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

PROJECT:  
DELONG RESIDENCE

LOCATION:  
4414 GALTIER STREET  
SHOREVIEW, MN 55126

WATERSHED DISTRICT:



DESIGNER: BRIAN T. OLSEN

DATE: 11/1/2022

PAST REVISION:

PAST REVISION:

PAST REVISION:

CHECKED BY:

TAA:

## NOTES:

- CALL GOPHER ONE TO MARK UTILITIES BEFORE DIGGING
- SEE PLANT SCHEDULE FOR SPACING [PLANT LOCATION MAY VARY]
- PLANT SUBSTITUTIONS MUST BE APPROVED BY RCD STAFF
- ORIGINAL SHEET SIZE: 11"x17"

SCALE: 1"=10'-0"



PLANTING PLAN

L200

# Consent Agenda Action Item

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**Board Meeting Date:** March 1, 2023

**Agenda Item No:** 5E

**Preparer:** Tina Carstens, Administrator

---

**Item Description:** Change Order No. 1 for the 2023 CIP Maintenance & Repair Project

---

## **Background:**

Change order 1 for the 2023 CIP Maintenance and Repair Project is attached. This change order will increase the contract price by \$6,434.45, but of that, \$4,247.45 will be reimbursed to us by the City of Little Canada as part of their pond clean-out portion of the project. This contract price change is available in this project's contingency budget.

---

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

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

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

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

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

---

## **Staff Recommendation:**

Approve Change Order No. 1.

---

## **Financial Implications:**

This change order increases this contract price by \$6,434.45, which is available in the contingency budget for this project. \$4,247.45 will ultimately be reimbursed to the District from the City of Little Canada.

---

## **Board Action Requested:**

Approve Change Order No. 1.



**Change Order No. 1**  
**Ramsey-Washington Metro Watershed District**  
**2023 Capital Improvement Project (CIP)**

**DATE OF ISSUANCE:** February 22, 2023

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

**Contractor:** Miller Excavating, Inc.  
3741 Stagecoach Trail N  
Stillwater, MN 55082  
Attn: Steve St. Claire

**Engineer:** Barr Engineering Company  
4300 MarketPointe Drive, Suite 200  
Minneapolis, MN 55435  
Attn: Brad Lindaman

**C.O.1.A Site 10 Storm Pipe Extension**

Description of Change:

The City of Little Canada requested a quote from the contractor to extend the existing 18" RCP storm sewer located on the north side of Aspen Pond. A written quote with scope and cost was provided to the city and signed. The work was performed during mobilization at the site and observed by district field staff. All work was completed in good faith, except for a bituminous patch to be done in the spring of 2023.

Measurement and Payment:

Method of Measurement: "Site 10 Storm Pipe Extension" work will be measured on the basis of a single lump sum (L.S.) unit to complete the work as specified.

Basis of Payment: Contractor will be paid a lump sum (L.S.) price for Site 10 Storm Pipe Extension, all complete as specified. This unit price shall be payment in full for the costs of all supervision, labor, materials, equipment, overhead and profit, and performing all operations as are necessary to sawcut and remove asphalt trail, remove, salvage, and reinstall existing flared end section, install 8-LF of RCP pipe with ties, and to install compacted base material for trail ready for paving during the spring of 2023, all complete as specified. No additional compensation will be granted for mobilization or for performing all work required to replace the bituminous pavement and adjacent turf restoration and stabilization, all complete as specified.

Change in Contract Time:

None

Impact on Contract Price:

Change Order Item C.O.1.A will increase the total contract price in the amount of \$4,247.45

Attachments:

- Contractor's quote signed by the City of Little Canada on February 9, 2023.

**C.O.1.B Sediment Log (6-Inch Diameter)**

Description of Change:

In accordance with the work involved at Site 3-5<sup>th</sup> Street Wetland, excavation of pond muck with on-site disposal was required. During this work effort, it was determined that perimeter erosion control would be necessary to limit the spoil-piles to upland areas. At that time, the Owner's site representative in the field requested the contractor to furnish and install the sediment log. The contractor completed this work in good faith.

Measurement and Payment:

Method of Measurement: "Sediment Log" work will be measured on the basis of length in lineal feet (L.F.) as measured in the field by actual horizontal survey or other measurements conducted by the Engineer and rounded to the nearest linear foot. Measurement will be for a single row, end to end for the size as indicated on the Bid Form, with no allowance for overlapping.

Basis of Payment: Contractor will be paid a unit price per lineal foot (L.F.) for single rows of sediment log furnished, installed, maintained, and removed and properly disposed of, as directed and as specified. This unit price 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, install, and maintain or repair, if required by Engineer, during the contract time, for the duration of the Work and removal and disposal, and restoration of the areas disturbed by removal, at completion of the Work, all complete as specified.

Change in Contract Time:

None

Impact on Contract Price:

Change Order Item C.O.1.B will increase the total contract price in the amount of \$2,187.00

Attachments:

- Contractor's unit price quote and material data sheet.

**Total Impact on Contract Price from Change Order No. 1 is \$6,434.45.**

This Change Order No. 1 is:

Submitted By:  
(ENGINEER)



Bradley J. Lindaman, Project Engineer  
Barr Engineering Company

Date: February 22, 2023

Authorized By:  
(OWNER)

Ramsey-Washington Metro Watershed District

Date: \_\_\_\_\_

Approved By:  
(CONTRACTOR)



Steve St. Claire, President  
Miller Excavating, Inc.

Date: 2/23/23

**From:** [Bill Dircks](#)  
**To:** [Dave Vlasin](#)  
**Cc:** [Greg Nelson](#); [Gareth W. Becker](#)  
**Subject:** RE: Ramsey- Washington Watershed Site 10 Pipe Extension  
**Date:** Thursday, February 9, 2023 4:07:08 PM  
**Attachments:** [image001.png](#)  
[Ramsey-Washington Watershed Site 10 Pipe Extension.pdf](#)

---

**CAUTION: This email originated from outside of your organization.**

Dave,

Attached is a signed copy of the work order. Thank you for working with us on this.

**Bill Dircks | City of Little Canada**  
**Public Works Director**

515 Little Canada Road E., Little Canada, MN 55117

Office: 651-766-4049

[bill.dircks@littlecanadamn.org](mailto:bill.dircks@littlecanadamn.org)

[www.littlecanadamn.org](http://www.littlecanadamn.org)



---

**From:** David Vlasin  
**Sent:** Thursday, February 9, 2023 11:11 AM  
**To:** Bill Dircks <[bill.dircks@littlecanadamn.org](mailto:bill.dircks@littlecanadamn.org)>  
**Cc:** Greg Nelson (GGN@barr.com) <[GGN@barr.com](mailto:GGN@barr.com)>; Gareth W. Becker <[GBecker@barr.com](mailto:GBecker@barr.com)>;  
David Vlasin <[david.vlasin@rwmwd.org](mailto:david.vlasin@rwmwd.org)>  
**Subject:** Fwd: Ramsey- Washington Watershed Site 10 Pipe Extension

See attached

Sent from my Mobile Device

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**From:** Jared Richert <[jared.richert@millerexc.com](mailto:jared.richert@millerexc.com)>  
**Sent:** Thursday, February 9, 2023 10:57:06 AM  
**To:** David Vlasin <[david.vlasin@rwmwd.org](mailto:david.vlasin@rwmwd.org)>  
**Subject:** Ramsey- Washington Watershed Site 10 Pipe Extension

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

David

Attached is the proposal you requested for the 18" rcp pipe extension at site 10. Asphalt patch in

trail 8'x10'x3" to be done in spring. Call me with any questions.

Thanks

The content of this email is the confidential property of Miller Excavating, Inc. and should not be copied, modified, retransmitted, or used for any purpose except with Miller Excavating, Inc's written authorization. If you are not the intended recipient, please delete all copies and notify us immediately.



## MILLER EXCAVATING, INC.

3741 Stagecoach Trail North

Stillwater, MN 55082

Estimator: Jared Richert

Phone / Fax: 651-439-1637 / 651-351-7210

Email: office@millerexc.com

Quote To: Ramsey-Washington Watershed

Job Name: Site 10 Storm Pipe Extension

Job Address: Aspen Circle

Job Location: Little Canada, MN

Attn: David Vlasin

Phone: 651-792-7972

Email: david.vlasin@rwmwd.org

Date: Feb 9, 2023

Estimate #: 2230XX (PSM)

ITEM	DESCRIPTION	QUANTITY	UNIT		AMOUNT
100	MOBILIZATION	1.00	LS		
130	SAWCUT / REMOVE ASPHALT TRAIL @ NORTH STORM FES	1.00	LS		
140	REMOVE EXISTING 18" FES AND SALVAGE	1.00	LS		
150	INSTALL 8 LF OF 18" RCP W/TIES	1.00	LS		
160	REINSTALL SALVAGED FES	1.00	LS		
170	BACKFILL AND PLACE GRAVEL FOR TRAIL SECTION	1.00	LS		
180	PATCH ASPHALT IN SPRING 8'X10'X3"	1.00	LS		
<b>GRAND TOTAL</b>					<b>\$4,247.45</b>

### NOTES:

Quote valid for 10 days.

Due to current global supply chain issues, PVC pipe, geotextile fabric, and HDPE Pipe pricing is subject to change based on the current price at the time of shipment, and availability is not guaranteed.

Proposal based on ONE (1) mobilization(s) to complete the work. Additional mobilizations to be charged at \$600.00 each.

Retainage as withheld by Owner. Retainage not to exceed 5% of contract amount and must be reduced/released as Miller Exc. work is approved.

Sales taxes included (if applicable)

No bond included. If required, cannot deduct for one without prior approval of MEI.

Payment due within 30 days of initial invoice. Past due accounts will accrue 1.5% per month, 18% per year service charge.

Standard insurance included.

Gopher State One Call locates included 4 business days prior to start of work.

Miller Exc. is not responsible for weather, utility conflicts, other contractors, strikes, lockouts, material shortages, acts of god, or other circumstances beyond our control that may delay the completion of the work.

All items listed above are tied, unless arrangements are made PRIOR to bid opening.

The information in this proposal is considered confidential between the two parties listed.

All excess clean earthwork materials from the project are the property of Miller Exc.

Water, sanitary sewer, and storm utilities to be stubbed within 5' outside the building.

Aggregate base ADD option includes gravel under sidewalk, curbs, asphalt, concrete paving, and building floor

All work to be completed during normal business hours. (Monday thru Friday 700 am to 500 pm) Additional charges may apply

for nights, weekend, or holiday work.

Subcontract language is subject to approval by MEI and must be in accordance with AIA or AGC standard agreements. This proposal shall be attached as an exhibit to such subcontract.

Owner/Developer agrees that NPDES permit will be transferred to Owner/Developer/New Contractor/Homeowner once Miller Exc. work is completed.

#### THIS PROPOSAL HAS BEEN PREPARED ACCORDING TO THE FOLLOWING DOCUMENTS:

PLANS:

SPECS:

GEOTECHNICAL:

ADDENDA:

#### THE FOLLOWING ITEMS ARE EXCLUDED FROM OUR PROPOSAL:

Permits, fees, or escrow accounts.(building, plumbing, demolition, dewatering, public waters, grading, utilities, right-of-way, zoning, SAC, WAC, etc.)

State or local agency plumbing plan submittals or review documents

Surveying, staking, blue tops, project layout, or as-builds

Special insurance (i.e. waiver of subrogation, pollution liability, railroad, etc.)

Repair of damage to existing streets, driveways, sidewalks, landscaping, or yards during the normal course of work.

Backcharges. Any potential corrective items must be notified to MEI in writing and allow fifteen (15) days to review, correct, or negotiate settlement, before any other party completes such work MEI shall be allowed to review estimated costs for the corrective work.

Private utility locating, relocation, or repair (site lighting, irrigation, dog fence, private electric/gas, private water/sewer/storm, etc.)

Public utility locating, relocation, or installation

Temporary utilities (electric, gas, water, sewer, phone, internet, etc.)

Soil testing (infiltration, vibration, densities, onsite gradations, visual inspection, etc.) Gradations for imported materials available upon request.

Installation, maintenance, and/or removal of temporary & semi-permanent access roads for job trailer, crane pads, equipment deliveries, resident access, etc.

Sheeting, shoring, underpinning, piling, etc. Trench boxes may be used for site utilities installation.

Engineering design for overdepth excavation systems

SWPPP design, permit, inspections, and maintenance

Any temporary or permanent erosion control BMP's not specifically listed in the proposal items above. Additional quantities of BMP's needed above base bid quantities for SWPPP compliance will be charged on a time and materials basis.

Removal of silt fence

Winter conditions (frost ripping, frost blankets, road restrictions, snow plowing, ground thawing, sand backfill, etc.)

Road restriction hauling or mobilization (roads less than 9 ton/axle)

Vapor barrier, foundation insulation, foundation drain tile, or waterproofing

Trench drain concrete or castings

Pre-demolition survey, samples, testing, reports, or removal of regulated wastes and HVAC systems

Buried or hidden debris, contaminated material testing, excavation, abatement, remediation

Traffic control

Sweeping required

Final tolerance of sand or aggregate base prior to concrete, pavers, and/or asphalt

Sod, seed, hydro seeding, straw mulch, temporary seeding, or erosion blanket

Bollards, signs, posts, monuments, jersey barrier, or other site direction items

Trees, shrubs, planting plugs, mulch, edging, or other landscaping items

Hand raking, rock removal, final tolerance prior to seeding and/or sod

Soil correction (other than that stated specifically in the project soils report AND outlined in bid items above.)

Import or export of soils to balance the cut/fill of the site. Excess soils to be stockpiled or spread adjacent to work areas into berms or through grade adjustments.

Dewatering of site (pumping, sumps, well points, etc.)

Prevailing wages

Targeted business or disadvantaged business goals

Concrete washout area

Manhole/catch basin castings, adjusting rings, or Infishields

Manhole/catch basin structure or pipe; lining, sealing, or special treatments.

Manhole, catch basin, or gate valve adjustments  
Rock excavation or haul out  
Retaining wall excavation, construction, or backfill  
Other site structure excavation, import/export, and backfill (i.e. fuel island, pump house, tower etc.)  
Fence including salvage, removal, or reinstallation  
ROW degradation fees. Based on repair of existing water or sewer service.  
Downspout connections  
Concrete equipment or clean out pads  
Landscape lighting or irrigation locating, relocation, installation, and/or repair  
Tree trimming, removal, grubbing, or transplanting  
Electrical, communication, or irrigation conduit installation  
Wall or under footing sleeves, link seals, or casing for mechanical piping into the structure footprint  
Interior piping installation or connection  
Well or septic design, install, removal, or abandonment  
Concrete  
Striping removal, installation, or repair  
Sawcutting or core drilling  
MEI is not responsible for removal/hauling/disposal of any excess soil displacement material generated onsite due to the installation of pipe and structures.  
If soil material is needed to backfill due to utility removals, it should be provided by the Prime contractor, at no charge, for MEI to place & compact.

#### PROPOSAL ACCEPTANCE

We hereby accept the proposal for the work as outlined above and agree to the terms and conditions as listed. Any alteration or deviation from the work as specified above will become extra work over the estimate and will be paid as a change order to the original contract. Miller Excavating, Inc. is authorized to proceed with the work. Payment will be made according to the terms outlined above.

Signed: Bill Dircks

Print: Bill Dircks

Title: Public Works Director

Date: 2/9/23

#### MINNESOTA PRE\_LIEN NOTICE

You have entered into a contract with Miller Excavating, Inc to perform excavating, grading, utility, and/or trucking work on your property. We are authorized to provide you with this notice.

(a) Any person or company supplying labor or materials for this improvement to your property may file a lien against your property if that person or company is not paid for the contributions.

(b) Under Minnesota law, you have the right to pay persons who supplied labor or materials for this improvement directly and deduct this amount from our contract price, or withhold the amounts due them from us until 120 days after completion of the improvement unless we give you a lien waiver signed by persons who supplied any labor or material for the improvement and who gave you timely notice.



**From:** [David Vlasin](#)  
**To:** [Greg Nelson](#); [Gareth W. Becker](#)  
**Subject:** Fwd: Sediment Control Logs  
**Date:** Wednesday, February 15, 2023 2:13:38 PM  
**Attachments:** [EG Tube Sock Contractor MATERIALS DATA SHEET \(2020 MNDOT\).pdf](#)

---

**CAUTION: This email originated from outside of your organization.**

Attached and below for biolog

Sent from my Mobile Device

---

**From:** Jared Richert <jared.richert@millerexc.com>  
**Sent:** Wednesday, February 15, 2023 2:08:13 PM  
**To:** David Vlasin <david.vlasin@rwmwd.org>  
**Subject:** Sediment Control Logs

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

Dave

I contacted my supplier about the sediment control logs. These are the product we use. Use \$9 per LF.

The content of this email is the confidential property of Miller Excavating, Inc. and should not be copied, modified, retransmitted, or used for any purpose except with Miller Excavating, Inc's written authorization. If you are not the intended recipient, please delete all copies and notify us immediately.

# ERO-GUARD

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## MATERIALS DATA SHEET:

**Product Name:** EG-Tube Sock (Contractor)

**Manufacturer:** Ero-Guard, Inc.

**Contact:** Brian Dingels (612) 382-2783

**Statement:** The above referenced material is manufactured to meet or exceed the specifications as specified for Sediment Control Logs Type C (Wood Chip) MNDOT Specifications and Standards 2020: Spec 3897.2.

### Physical Description:

Composition: EG Tube Socks consist of wood chips ground to a 2" minus size (100% passing through a 4" sieve) of which not more than 20% of the weight is material passing through a .1" sieve (MNDOT Type 6 Mulch).

Netting: Black knitted fabric, tubular netting.

Configuration: Cylindrical with closed ends that are either hog ringed, zip tied or hand tied to ensure the integrity of the log.

Packaging: EG Tube Socks layered on pallets, and then wrapped in shrink wrap.

Sock Diameter	Length	Weight*	Density*
8"	20 ft	81 lbs	9.42 lbs/ft3

\*Weight and density are typical values

**Recommended Applications:** EG Tube Socks are designed for perimeter control, inlet/outlet protection, slope interruption. They reduce hydraulic energy and filter sediment out of water, even when just laid on impervious surfaces without staking. These logs are flexible and conform to the ground which they are laid on and can be ordered in custom lengths if a job requires.

---

**Your Leader In Erosion Control Blankets**

412 Hwy 22 South · Mapleton, MN · 56065

\* \* \* \* \*

# Permit Program

\* \* \* \* \*

## MEMORANDUM

**Date:** March 1, 2023  
**To:** RWMWD Board of Managers  
**From:** Nicole Soderholm, Permit Coordinator  
**Subject:** Little Canada Twin Lake Blvd Wetland Replacement Plan

The City of Little Canada submitted a grading permit application with associated wetland replacement plan on 1/11/23. The proposed project involves roadway rehabilitation of Twin Lake Boulevard at Vadnais Boulevard in the cities of Little Canada and Vadnais Heights. The scope of work includes a partial reconstruction/partial pavement rehabilitation and will include the narrowing of the road from 32' to 26'. Proposed improvements also include installation of curb and gutter, watermain/sanitary sewer, and construction of an 8' sidewalk/trail on the north side of Twin Lake Blvd.

The trail is described as a critical safety component to the project in order to provide pedestrian access to Rice Street businesses.

An existing wetland to the north of Twin Lake Boulevard was delineated with a boundary approved by the District in September 2022.

The Wetland Conservation Act (WCA) wetland replacement plan submitted by the applicant is proposing 0.03 acre (1,307 square ft) of permanent wetland impact to accommodate the trail construction and associated stormwater infrastructure. The WCA application was noticed to the Technical Evaluation Panel (TEP) on 1/25/23, which includes the DNR, Board of Water & Soil Resources (BWSR), and Ramsey County. TEP comments were prepared following review of the application, dated 2/14/23.

The full wetland application and TEP comments are included in this month's packet for board review and comment. No board action is being requested this month, however it is helpful to understand if there are any questions or concerns now before the permit is included on a future board meeting agenda (tentatively April).

## Minnesota Wetland Conservation Act Notice of Application

<b>Local Government Unit:</b> Ramsey-Washington Metro Watershed District	<b>County:</b> Ramsey
<b>Applicant Name:</b> Bill Dircks (City of Little Canada) <b>Applicant Representative:</b> Chad Ponce (Bolton & Menk, Inc.)	
<b>Project Name:</b> Twin Lake Blvd Replacement Plan <b>LGU Project No. (if any):</b> 23-03 WCA	
<b>Date Complete Application Received by LGU:</b> 1/11/2023	
<b>Date this Notice was Sent by LGU:</b> 1/25/2023	
<b>Date that Comments on this Application Must Be Received By LGU<sup>1</sup>:</b> 2/15/2023	

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

### WCA Decision Type - check all that apply

<input type="checkbox"/> Wetland Boundary/Type <input type="checkbox"/> Sequencing <input checked="" 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)	
<b>Part:</b> <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> G <input type="checkbox"/> H	<b>Subpart:</b> <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9

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

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

### Application Materials

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

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

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

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


### Notice Distribution (include name)

*Required on all notices:*

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

### Optional or As Applicable:

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

<b>Signature:</b> 	<b>Date:</b> 1/25/2023
--	------------------------

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



# Twin Lake Blvd. Improvements

## Replacement Plan

City of Little Canada  
January 9, 2023

**Submitted by:**

Bolton & Menk, Inc.  
1960 Premier Drive  
Mankato, MN 56001  
P: (507) 625-4171  
F: (507) 625-4177



**BOLTON  
& MENK**

Real People. Real Solutions.



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## Appendix

EXHIBIT 1 – LOCATION MAP  
EXHIBIT 2 – APPROVED WETLANDS  
EXHIBIT 3 - PROJECT LAYOUT MAP  
EXHIBITS 4A & 4B - PROPOSED WETLAND IMPACTS MAP

STREET PLAN AND PROFILE  
EROSION CONTROL PLAN  
STORM WATER PLAN  
CROSS SECTIONS



## PART ONE: Applicant Information

If applicant is an entity (company, government entity, partnership, etc.), an authorized contact person must be identified. If the applicant is using an agent (consultant, lawyer, or other third party) and has authorized them to act on their behalf, the agent's contact information must also be provided.

<b>Applicant/Landowner Name:</b>	Bill Dircks   Public Works Director   City of Little Canada		
<b>Mailing Address:</b>	515 Little Canada Rd. E   Little Canada, MN 55117		
<b>Phone:</b>	(651) 766-4049		
<b>E-mail Address:</b>	Bill.dircks@littlecanadamn.org		

**Authorized Contact (do not complete if same as above):**

**Mailing Address:**

**Phone:**

**E-mail Address:**

<b>Agent Name:</b>	Chad Ponce   Natural Resources Specialist   Bolton & Menk, Inc.		
<b>Mailing Address:</b>	116 N. Markley St., Suite 101   Greenville, SC   29601		
<b>Phone:</b>	(843) 286-3631		
<b>E-mail Address:</b>	chad.ponce@bolton-menk.com		

## PART TWO: Site Location Information

**County:** Ramsey County

**City/Township:** Little Canada and Vadnais Heights

**Parcel ID and/or Address:** See Location Map

**Legal Description (Section, Township, Range):** Sec 31, T30N, R22W

**Lat/Long (decimal degrees):**

**Attach a map showing the location of the site in relation to local streets, roads, highways.**

**Approximate size of site (acres) or if a linear project, length (feet):** ~5,000 feet in length

If you know that your proposal will require an individual Permit from the U.S. Army Corps of Engineers, you must provide the names and addresses of all property owners adjacent to the project site. This information may be provided by attaching a list to your application or by using block 25 of the Application for Department of the Army permit which can be obtained at:

[http://www.mvp.usace.army.mil/Portals/57/docs/regulatory/RegulatoryDocs/engform\\_4345\\_2012oct.pdf](http://www.mvp.usace.army.mil/Portals/57/docs/regulatory/RegulatoryDocs/engform_4345_2012oct.pdf)

## PART THREE: General Project/Site Information

If this application is related to a delineation approval, exemption determination, jurisdictional determination, or other correspondence submitted **prior to** this application then describe that here and provide the Corps of Engineers project number.

*A type and boundary application requesting a delineation concurrence was submitted for the site on August 1, 2022. The US Army Corps provided concurrence on August 25, 2022 (MVP-2022-01411-JST). The delineation was Approved with Conditions by a WCA Notice of Decision dated August 31, 2022. The LGU decision required the inclusion of a previously approved boundary for offsite Wetland 2. The updated wetland boundary exhibit was provided on August 25, 2022 (attached **Exhibit 2**).*

Describe the project that is being proposed, the project purpose and need, and schedule for implementation and completion. The project description must fully describe the nature and scope of the proposed activity including a description of all project elements that effect aquatic resources (wetland, lake, tributary, etc.) and must also include plans and cross section or profile drawings showing the location, character, and dimensions of all proposed activities and aquatic resource impacts.

*Twin Lake Boulevard is a shared road that is located within the City of Little Canada and the City of Vadnais Heights (**Exhibit 1**). The cities are planning to improve Twin Lake Boulevard during the 2023 construction season, in accordance with the Capital Improvement Plan (Little Canada) and 2022 Approved Annual Budget (Vadnais Heights). The City of Little Canada is planning a full depth reclamation along the 4600-feet of Twin Lakes Boulevard. The existing road corridor is 32-feet wide, composed of 12-foot lanes and 4-foot shoulders. The proposed corridor has been reduced to 26-feet wide to minimize impacts to wetlands and protected species. The project will also include the addition of a 6-foot wide paved trail on the north side of the road and improvements to the storm sewer, sanitary sewer, and watermain.*

*Historical aerials show the eastern half of Twin Lake Boulevard in its current alignment as early as 1937. The western half of Twin Lake Boulevard was realigned with the construction of I-694 during the 1960's. The roadway was last improved by means of roadway reclamation and paving in 1992. Since then, the street and underground utilities have been routinely maintained with pavement patching becoming a very routine need over the last several years.*

*In 2022, the City of Little Canada approved a development plan that will bring two high-density multi-family residential housing developments to vacant property that was previously owned by the City of Little Canada. Two sixty-unit buildings will be constructed in phases with phase one (eastern parcel) beginning during the fall of 2022 with phase two (western parcel) anticipated to begin during the fall of 2023.*

*In coordination with Ramsey County staff, City of Little Canada and City of Vadnais Heights staff have scoped a proposed realignment of Twin Lake Boulevard at it approaches Vadnais Boulevard near the east end of the project. The realignment would provide better sight lines and a safer intersection for traffic. Selective clearing of brush and trees is also proposed and would further improve sightlines.*

*The Twin Lake Boulevard project involves the construction of a six-foot wide paved trail along the north side of Twin Lake Boulevard between Vadnais Boulevard which results in impacts to wetlands at the site and is the focus of this report. The proposed sidewalk provides safer access and connections to existing neighborhoods and the planned high-density multi-family residential housing development discussed previously. The trail also provides a connection to Snail Lakes Regional Park, and to the commercial node located at Rice Street and Grass Lake Place. This pedestrian amenity also connects to a future regional trail that is being planned by Ramsey County. Impacts at the site are related to the development of this trail and stormwater improvements including extension of culverts below the trail, associated rip rap, and installation of a new stormwater outfall at the western end of the trail. See the Site Layout Map included as **Exhibit 3**.*

*Permanent impacts are proposed for the construction of the above activities. Total WCA permanent impacts are 0.03-acres (Wetland1) (**Exhibits 4A and 4B**).*

*Based on RWMWD Rule E 2 (a)(2), wetland replacement, where permitted, shall be in accordance with the following prioritization for the location of the replacement wetland:*

- i. Onsite replacement is most preferred*
- ii. Within the same subwatershed*
- iii. Within the District*
- iv. Outside the District is the least preferred*

*Proposed permanent wetland impacts (0.03 acres) will be mitigated through a federal and state approved wetland bank with approved credits available at a ratio of 2:1 for a total of 0.06 credits. The following siting was used to determine the bank:*

- On-site mitigation was not a viable option due to spatial constraints. The project area is a linear corridor with all areas within the site being accounted for through lots, roads, utility easements, and stormwater management, therefore it would not be a feasible location for a wetland restoration.*
- Wetland mitigation credits are not available within the subwatershed or the District.*
- Bank #1762 is in the same major watershed (20) and is in the same Bank Service Area (BSA 7) as the wetland impacts. The needed wetland credits (0.06) will be drawn from this bank at the required 2:1 ratio.*

*8420.0515 Special Considerations*

*Subpart 1. Scope.*

*Subp. 2. Endangered and Threatened Species*

*An NHIS request form recently submitted. No response received yet. Blanding's turtle may occur near the site. See the BMPs which will be used to protect this species below.*

*Subp. 3. Rare natural communities*

*An NHIS request form recently submitted. No response received yet.*

*Subp. 4. Special fish and wildlife resources*

*Activities at the site will not have a significant adverse effect on special or locally significant fish and wildlife resources.*

*Subp. 5. Archaeological, historic, or cultural resources sites*

*An archeological survey has not been performed at this study area for this project.*

*Subp. 6. Groundwater sensitivity*

*Activities at the site will not have an adverse effect on groundwater quality.*

*Subp. 7. Sensitive surface waters*

*Vadnais Lake is broken into two main water bodies, East and West Vadnais Lakes, separated by Sucker Lake Road. West Vadnais Lake includes a small impoundment which is separated from the main section of West Vadnais Lake by Vadnais Blvd. West Vadnais Lake, north of Vadnais Blvd., is listed as impaired for nutrient pollution. East Vadnais Lake is impaired for mercury in fish tissue.*

*Subp. 8. Education or research use*

*Not applicable.*

*Subp. 9. Waste disposal sites.*

*None on site.*

*Subp. 10. Consistency with other plans*

*The contents of this replacement plan are consistent with the Capital Improvement Plan (Little Canada) and 2022 Approved Annual Budget (Vadnais Heights).*

*Based on a review of potential threatened and/or endangered species occurrence, we found that Blanding's turtle may occur within one mile of the study area. We plan to incorporate the following BMPs to protect the Blanding's turtle:*

- 1. Installation of silt fence along the entire length of the wetland, to prevent turtles from entering the construction zone*
- 2. Reduction of the street width (32 feet to 26 feet) to reduce the crossing distance for turtles*
- 3. Use of 1:3 slopes or flatter wherever possible (1:2 immediately adjacent to wetland to reduce wetland impacts)*
- 4. Curb reduction to half-height (3") in three locations along the wetland to provide gaps in the barrier curb for turtles to get back to the wetland if they end up in the road*

*Tree removal activities at the site will take place within the study area/construction limits. Approximately 190 trees will be cleared. Tree removal is planned for early March to avoid impacts to potential bat habitat during active season.*

## PART FOUR: Aquatic Resource Impact<sup>1</sup> Summary

If your proposed project involves a direct or indirect impact to an aquatic resource (wetland, lake, tributary, etc.) identify each impact in the table below. Include all anticipated impacts, including those expected to be temporary. Attach an overhead view map, aerial photo, and/or drawing showing all of the aquatic resources in the project area and the location(s) of the proposed impacts. Label each aquatic resource on the map with a reference number or letter and identify the impacts in the following table.

<b>Aquatic Resource ID</b> (as noted on overhead view)	<b>Aquatic Resource Type</b> (wetland, lake, tributary etc.)	<b>Type of Impact</b> (fill, excavate, drain, or remove vegetation)	<b>Duration of Impact</b> Permanent (P) or Temporary (T) <sup>1</sup>	<b>Size of Impact</b> <sup>2</sup>	<b>Overall Size of Aquatic Resource</b> <sup>3</sup>	<b>Existing Plant Community Type(s) in Impact Area</b> <sup>4</sup>	<b>County, Major Watershed #, and Bank Service Area # of Impact Area</b> <sup>5</sup>
Wetland 1	Wetland	Fill	P	0.03 ac	N/A	Shallow Marsh	Ramsey, 20, 7

<sup>1</sup>If impacts are temporary; enter the duration of the impacts in days next to the "T". For example, a project with a temporary access fill that would be removed after 220 days would be entered "T (220)".

<sup>2</sup>Impacts less than 0.01 acre should be reported in square feet. Impacts 0.01 acre or greater should be reported as acres and rounded to the nearest 0.01 acre. Tributary impacts must be reported in linear feet of impact and an area of impact by indicating first the linear feet of impact along the flowline of the stream followed by the area impact in parentheses). For example, a project that impacts 50 feet of a stream that is 6 feet wide would be reported as 50 ft (300 square feet).

<sup>3</sup>This is generally only applicable if you are applying for a de minimis exemption under MN Rules 8420.0420 Subp. 8, otherwise enter "N/A".

<sup>4</sup>Use *Wetland Plants and Plant Community Types of Minnesota and Wisconsin* 3<sup>rd</sup> Ed. as modified in MN Rules 8420.0405 Subp. 2.

<sup>5</sup>Refer to Major Watershed and Bank Service Area maps in MN Rules 8420.0522 Subp. 7.

If any of the above identified impacts have already occurred, identify which impacts they are and the circumstances associated with each:

N/A

<sup>1</sup> The term "impact" as used in this joint application form is a generic term used for disclosure purposes to identify activities that may require approval from one or more regulatory agencies. For purposes of this form it is not meant to indicate whether or not those activities may require mitigation/replacement.

## PART FIVE: Applicant Signature

☐ Check here if you are requesting a pre-application consultation with the Corps and LGU based on the information you have provided. Regulatory entities will not initiate a formal application review if this box is checked.

By signature below, I attest that the information in this application is complete and accurate. I further attest that I possess the authority to undertake the work described herein.

Signature: Bill Dircks Date: January 11, 2023

I hereby authorize Bolton & Menk to act on my behalf as my agent in the processing of this application and to furnish, upon request, supplemental information in support of this application.

## Attachment C

### Avoidance and Minimization

**Project Purpose, Need, and Requirements.** Clearly state the purpose of your project and need for your project. Also include a description of any specific requirements of the project as they relate to project location, project footprint, water management, and any other applicable requirements. Attach an overhead plan sheet showing all relevant features of the project (buildings, roads, etc.), aquatic resource features (impact areas noted) and construction details (grading plans, storm water management plans, etc.), referencing these as necessary:

*Twin Lake Boulevard is a shared road that is located within the City of Little Canada and the City of Vadnais Heights. The cities are planning to improve Twin Lake Boulevard during the 2023 construction season, in accordance with the Capital Improvement Plan (Little Canada) and 2022 Approved Annual Budget (Vadnais Heights). The City of Little Canada is planning a full depth reclamation along the 4600-feet of Twin Lakes Boulevard. The existing road corridor is 32-foot wide, composed of 12-foot lanes and 4-foot shoulders. The proposed corridor is 36.66-foot wide, comprised of 12-foot lanes, 2-foot shoulders, a 2-foot concrete sidewalk buffer, a 6-foot sidewalk, and B618 curb on the north side of the road. The proposed corridor has been reduced to 26-foot wide to minimize impacts to wetlands and protected species. The project will also include the addition of a 6-foot wide trail on the north side of the road and improvements to the storm sewer, sanitary sewer, and watermain.*

*The Twin Lake Boulevard project involves the construction of a six-foot wide concrete sidewalk along the north side of Twin Lake Boulevard between Vadnais Boulevard. Impacts at the site are related to the development of this trail, extension of culverts below the trail, and installation of a new stormwater outfall at the western end of the trail. The proposed sidewalk provides safer access and connections to existing neighborhoods. The sidewalk also provides a connection to Snail Lakes Regional Park, and to the commercial node located at Rice Street and Grass Lake Place. This trail also connects to a future regional trail that is being planned by Ramsey County.*

*Applicable USACE permit for impacts: Transportation Regional General Permit – Category 3: New Construction – Linear Transportation.*

**Avoidance.** Both the CWA and the WCA require that impacts to aquatic resources be avoided if practicable alternatives exist. Clearly describe all on-site measures considered to avoid impacts to aquatic resources and discuss at least two project alternatives that avoid all impacts to aquatic resources on the site. These alternatives may include alternative site plans, alternate sites, and/or not doing the project. Alternatives should be feasible and prudent (see MN Rules 8420.0520 Subp. 2 C). Applicants are encouraged to attach drawings and plans to support their analysis:

- 1. No build alternative: If the trail along the north side of Twin Lake Blvd is not completed, pedestrian safety would not be improved as there is no sidewalk or other trail along this road. The City of Little Canada has approved a zone map amendment and comprehensive plan amendment to rezone two parcels of land along the north side of Twin Lake Blvd. to allow a multi-family housing development (approximately 120 units). The trail is important to protect pedestrian safety for the increase in pedestrian traffic from this development. If the trail is not built, a safe connection for pedestrians from Twin Lake Blvd. to Vadnais Blvd. is not provided.*
- 2. Boardwalk alternative: A wetland boardwalk crossing was considered at the terminal end of the trail to avoid all impacts to wetlands. This option was not chosen because: a) it was not financially feasible to install a wetland boardwalk over the very small area that will be impacted (0.03 acres), b) concerns about the long-term maintenance and safety were raised by the City. Boardwalk surfaces need to be inspected frequently to ensure deck boards are not in need of replacement. Issues with the boardwalk surface can hinder pedestrian and bicyclist operations, which is especially a concern for ADA users.*
- 3. Alternative 3. We considered termination of the trail prior to the wetland impacts. This option leaves no safe access from the trail to pedestrian destinations along Vadnais Blvd.*

**Minimization.** Both the CWA and the WCA require that all unavoidable impacts to aquatic resources be minimized to the greatest extent practicable. Discuss all features of the proposed project that have been modified to minimize the impacts to water resources (see MN Rules 8420.0520 Subp. 4):

*Minimization of impacts has been implemented throughout the design process. The proposed corridor has been reduced to 26-foot wide to minimize impacts to wetlands and protected species. Slopes have been increased to 2:1 along the wetland to*

*reduce impacts. We plan to use minimum amount of rip rap sufficient to prevent scour and erosion at the stormwater outfalls. Culvert outfalls are outside of wetlands across the site with the exception of 3 outfalls on the west side of the corridor. Culverts and pipes have been appropriately sized to avoid unnecessary impacts but convey expected stormwater flows. BMPs are implemented to avoid impacts to native plants and animals. BMPs include the use of clean fill materials, staging outside of jurisdictional areas, erosion and sediment control procedures, and protections for the Blanding's turtle.*

**Off-Site Alternatives.** An off-site alternatives analysis is not required for all permit applications. If you know that your proposal will require an individual permit (standard permit or letter of permission) from the U.S. Army Corps of Engineers, you may be required to provide an off-site alternatives analysis. The alternatives analysis is not required for a complete application but must be provided during the review process in order for the Corps to complete the evaluation of your application and reach a final decision. Applicants with questions about when an off-site alternatives analysis is required should contact their Corps Project Manager.

*Off-site alternatives are not applicable to this linear transportation project.*

## Attachment D

### Replacement/Compensatory Mitigation

Complete this part **if** your application involves wetland replacement/compensatory mitigation not associated with the local road wetland replacement program. Applicants should consult Corps mitigation guidelines and WCA rules for requirements.

**Replacement/Compensatory Mitigation via Wetland Banking.** Complete this section if you are proposing to use credits from an existing wetland bank (with an account number in the State wetland banking system) for all or part of your replacement/compensatory mitigation requirements.

Wetland Bank Account #	County	Major Watershed #	Bank Service Area #	Credit Type (if applicable)	Number of Credits
1762	Anoka	20	7	SWC	0.06

Applicants should attach documentation indicating that they have contacted the wetland bank account owner and reached at least a tentative agreement to utilize the identified credits for the project. This documentation could be a signed purchase agreement, signed application for withdrawal of credits or some other correspondence indicating an agreement between the applicant and the bank owner. *However, applicants are advised not to enter into a binding agreement to purchase credits until the mitigation plan is approved by the Corps and LGU.*

**Project-Specific Replacement/Permittee Responsible Mitigation.** Complete this section if you are proposing to pursue actions (restoration, creation, preservation, etc.) to generate wetland replacement/compensatory mitigation credits for this proposed project.

WCA Action Eligible for Credit <sup>1</sup>	Corps Mitigation Compensation Technique <sup>2</sup>	Acres	Credit % Requested	Credits Anticipated <sup>3</sup>	County	Major Watershed #	Bank Service Area #

<sup>1</sup>Refer to the name and subpart number in MN Rule 8420.0526.

<sup>2</sup>Refer to the technique listed in *St. Paul District Policy for Wetland Compensatory Mitigation in Minnesota*.

<sup>3</sup>If WCA and Corps crediting differs, then enter both numbers and distinguish which is Corps and which is WCA.

Explain how each proposed action or technique will be completed (e.g. wetland hydrology will be restored by breaking the tile.....) and how the proposal meets the crediting criteria associated with it. Applicants should refer to the Corps mitigation policy language, WCA rule language, and all associated Corps and WCA guidance related to the action or technique:

N/A

Attach a site location map, soils map, recent aerial photograph, and any other maps to show the location and other relevant features of each wetland replacement/mitigation site. Discuss in detail existing vegetation, existing landscape features, land use (on and surrounding the site), existing soils, drainage systems (if present), and water sources and movement. Include a topographic map showing key features related to hydrology and water flow (inlets, outlets, ditches, pumps, etc.):

N/A



Attach a map of the existing aquatic resources, associated delineation report, and any documentation of regulatory review or approval. Discuss as necessary:

N/A

For actions involving construction activities, attach construction plans and specifications with all relevant details. Discuss and provide documentation of a hydrologic and hydraulic analysis of the site to define existing conditions, predict project outcomes, identify specific project performance standards and avoid adverse offsite impacts. Plans and specifications should be prepared by a licensed engineer following standard engineering practices. Discuss anticipated construction sequence and timing:

N/A

For projects involving vegetation restoration, provide a vegetation establishment plan that includes information on site preparation, seed mixes and plant materials, seeding/planting plan (attach seeding/planting zone map), planting/seeding methods, vegetation maintenance, and an anticipated schedule of activities:

N/A

For projects involving construction or vegetation restoration, identify and discuss goals and specific outcomes that can be determined for credit allocation. Provide a proposed credit allocation table tied to outcomes:

N/A

Provide a five-year monitoring plan to address project outcomes and credit allocation:

N/A

Discuss and provide evidence of ownership or rights to conduct wetland replacement/mitigation on each site:

N/A

Quantify all proposed wetland credits and compare to wetland impacts to identify a proposed wetland replacement ratio. Discuss how this replacement ratio is consistent with Corps and WCA requirements:

N/A

By signature below, the applicant attests to the following (only required if application involves project-specific/permittee responsible replacement):

- All proposed replacement wetlands were not:
  - Previously restored or created under a prior approved replacement plan or permit
  - Drained or filled under an exemption during the previous 10 years
  - Restored with financial assistance from public conservation programs
  - Restored using private funds, other than landowner funds, unless the funds are paid back with interest to the individual or organization that funded the restoration and the individual or organization notifies the local government unit in writing that the restored wetland may be considered for replacement.
- The wetland will be replaced before or concurrent with the actual draining or filling of a wetland.
- An irrevocable bank letter of credit, performance bond, or other acceptable security will be provided to guarantee successful completion of the wetland replacement.
- Within 30 days of either receiving approval of this application or beginning work on the project, I will record the Declaration of Restrictions and Covenants on the deed for the property on which the replacement wetland(s) will be located and submit proof of such recording to the LGU and the Corps.

Applicant or Representative:

N/A

Title:

Signature: N/A

Date:

# Transaction Form to Withdraw Credits

## Minnesota Wetland Bank Program

If the layout of this form looks incorrect, click on [View, Edit Document](#), then save it to your computer.

<b>1. Credit User</b>		<i>This space for BWSR use only.</i>
<b>Name:</b> Bill Dircks Public Works Director	<b>Organization:</b> City of Little Canada	
<b>Address:</b> 515 Little Canada Rd. Little Canada, MN 55117	<b>Email:</b> Bill.dircks@littlecanadamn.org	
<b>Phone:</b> (651) 766-4049	<b>LGU File #:</b> 22-08 WCA	
<b>Consultant:</b> Chad Ponce, Bolton & Menk, Inc., chad.ponce@bolton-menk.com		
<b>2. Wetland Impact Information</b>		
To be completed for the project impacting wetlands and with which this withdrawal is intended to replace.		
<b>Project Name:</b> Twin Lake Blvd. Improvements	<b>Impact Size (acres):</b> 0.03 ac	
<b>Impact County:</b> Ramsey	<b>Impact Wetland type:</b> Type 3	
<b>Impact Major Watershed/BSA:</b> 20 / 7	<b>Replacement Ratio:</b> 2:1	
<b>Sec/Twp/Range:</b> Sec 31, T30N, R22W		
*Projects with multiple locations should use the most central location in relation to the project as a whole.		
<b>Are Federally authorized credits required for this impact?</b> Yes No		
<b>Corps Regulatory File Number:</b> MVP-2022-01411-JST		
<b>Comments:</b>		

<b>3. Credits to be Withdrawn</b> To be completed by the seller of the credits (account holder)				
<b>Account Information</b>				
<b>Account:</b> 1762		<b>County:</b> Anoka		<b>Bank Service Area:</b> 7
<b>Credit Subgroup</b>	<b>Wetland Type/Plant Community Type</b>	<b>Federally Approved?</b>	<b>Cost per Credit</b>	<b>Credit Amounts</b>
B	3 – Shallow Marsh	Yes	\$130,680	0.06
<b>Per Credit Withdrawal Fee by BSA</b>		<b>Enter the Withdrawal Fee for the BSA of the account:</b>	<b>Total Credits:</b>	0.06
BSA 1 \$520	BSA 6 \$1,083	<b>\$1,992</b>	<b>Withdrawal Fee:</b>	\$119.52
BSA 2 \$371	BSA 7 \$1,992		(Withdrawal Fee x total credits)	
BSA 3 \$725	BSA 8 \$2,577	<b>Easement Stewardship Fee:</b>	(Easement Stewardship fee x total credits)	
BSA 4 \$1,412	BSA 9 \$2,628	<b>\$302</b>	<b>Stewardship Fee:</b>	\$18.12
BSA 5 \$685	BSA 10 \$3,099		<b>Total Fees:</b>	\$137.64

Please make checks payable to the Minnesota Board of Water and Soil Resources. BWSR does not accept cash.

BWSR fee policy: [http://www.bwsr.state.mn.us/wetlands/wetlandbanking/fee\\_and\\_sales\\_data/Wetland\\_Banking\\_Fee\\_Policy\\_Effective\\_June1\\_2017.pdf](http://www.bwsr.state.mn.us/wetlands/wetlandbanking/fee_and_sales_data/Wetland_Banking_Fee_Policy_Effective_June1_2017.pdf)

**Disclaimer:** All transactions in the Wetland Bank system are public information

If the layout of this form looks incorrect, click on [View, Edit Document](#), then save it to your computer.

**Project Name:** Twin Lake Blvd. Improvements

Confirmation email will be emailed to the user, seller, and regulatory representative when the transaction is complete. If anyone else should be notified please indicated their emails below:

#### 4. Regulatory Authorization

By signing below, the identified agency and authorized representative hereby certifies that they have: **a)** verified that the subject wetland credits are deposited in the account of the owner/seller, **b)** approved a wetland replacement plan or similar agreement under their jurisdiction, and **c)** approve the proposed use of the wetland bank credit described above.

WCA LGU/Agency:

LGU Representative:

Email Address:

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

For NRCS, DNR, etc. as applicable

Agency Name and Location:

Representative:

Email Address:

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

#### 5. Credit User Signature

By signing below the proposed credit user attests that he/she owns or has purchased the credits identified in this form and has received approval from the regulatory authority(ies).

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

#### 6. Account Holder Signature

By signing below I, the seller and holder of the aforementioned account in the State of Minnesota Wetland Mitigation Bank, certify that:

- 1) The credits described in this transaction form have been sold to the credit user or will be used for my own project;
- 2) I have received payment in full from the buyer (if applicable);
- 3) The credits described in this transaction form have not been sold or used in any way to mitigate wetland losses other than for the project and location identified in the wetland impact information block on the previous page;
- 4) The credits described in this application should be withdrawn from my account; and
- 5) I will not have a negative balance of credits after the subject credits are debited from my account.

Name/Representative:

Email Address:

Signature \_\_\_\_\_

Date \_\_\_\_\_

**Send complete forms and fee payments to:  
Wetland Bank Administration  
Minnesota Board of Water and Soil  
Resources  
520 Lafayette Road North  
Saint Paul, MN 55155**

**Disclaimer: All transactions in the Wetland Bank system are public information**

**Butterfly Marsh Wetland Bank**  
**West Rondeau Lake Drive LLC – Account 1762**

**PURCHASE AGREEMENT  
FOR  
WETLAND BANKING CREDITS**

THIS AGREEMENT is made this 5th\_ day of \_January\_, 2023\_ between  
West Rondeau Lake Drive LLC (Seller) and City of Little Canada – Bill Dircks, Public Works  
Director (Buyer).

1. Seller agrees to sell to Buyer, and Buyer agrees to buy from Seller, the wetland banking credits  
(Credits) listed below:

Credits to be Sold											
Credit Subgroup	Credit Type SWC or AGC		Wetland Type/Plant Community Type			Cost per Credit		Credit Amounts			
B	SWC		Shallow Marsh			\$130,680		0.06			
Per Credit Withdrawal Fee by BSA*						Enter the Withdrawal Fee for the BSA of the account:	Total Cost:	\$7,840.80	Total Credits	0.06	
	SWC	AGC		SWC	AGC		Withdrawal Fee x total credits = fee				
BSA 1	\$520	\$270	BSA 6	\$1,083	\$586	\$1,992	Withdrawal Fee:		\$119.52		
BSA 2	\$371	\$191	BSA 7	\$1,992	\$1,060						
BSA 3	\$725	\$389	BSA 8	\$2,577	\$1,348	Easement Stewardship Fee:					
						Easement Stewardship fee x total credits = fee					
BSA 4	\$1,412	\$724	BSA 9	\$2,628	\$1,332	\$302	Stewardship Fee:		\$18.12		
BSA 5	\$685	\$367	BSA 10	\$3,099	\$1,580		Total Fees:		\$137.64		
								Grand Total:		\$7,978.44	

\*AGC is for Ag bank credits and SWC is for standard bank credits.

2. Seller represents and warrants as follows:
- The Credits are deposited in an account in the Minnesota Wetland Bank administered by the Minnesota Board of Water and Soil Resources (BWSR) pursuant to Minn. Rules Chapter 8420.0700-.0760.
  - Seller owns the Credits and has the right to sell the Credits to Buyer.

3. Buyer will pay Seller a total of \$7,840.80 for the Credits, as follows:


- a) \$ 1,000 as earnest money, to be paid when this Agreement is signed; and
- b) The balance of \$ 6,840.80 to be paid on the Closing Date listed below.

4. ☒ Buyer, ☐ Seller agrees to pay to a withdrawal fee of \$119.52 to the State of Minnesota based on the per credit fee of \$1,992 for Bank Service Area 7 and a stewardship fee of \$18.12 based on the per credit fee of \$ 302. At the Closing Date, ☒ Buyer, ☐ Seller will execute a check made out for this amount, payable to the Board of Water and Soil Resources.

5. The closing of the purchase and sale shall occur on April 14, 2023 (Closing Date) or within three weeks of agency approvals whichever is sooner. The Closing Date and location may be changed by written consent of both parties. Upon payment of the balance of the purchase price, Seller will sign a fully executed Transaction Form to Withdraw Credits provided by BWSR, provide a copy of the Transaction Form to Withdraw Credits to the Buyer and forward the same to the BWSR along with the check for the withdrawal fee and stewardship fee.

6. Buyer has applied or will apply to Ramsey-Washington Metro WD (Local Government Unit (LGU) or other regulatory authority) for approval of a replacement plan utilizing the Credits as the means of replacing impacted wetlands. If the LGU has not approved the Buyer's application for a replacement plan utilizing the Credits by the Closing Date, and no postponement of the Closing Date has been agreed to by Buyer and Seller in writing, then either Buyer or Seller may cancel this Agreement by giving written notice to the other. In this case, Seller shall return Buyer's earnest money, and neither Buyer nor Seller shall have any further obligations under this Agreement. If the LGU has approved the replacement plan and the Seller is ready to proceed with the sale on the Closing Date, but Buyer fails to proceed, then the Seller may retain the earnest money as liquidated damages.

West Runder Lake Drive, LLC

  
(Signature of Seller) (Date)  
Chief manager 1/20/2023

Bill Dircks January 11, 2023  
(Signature of Buyer) (Date)

Page 2 of 2





# Landowner Statement and Contractor Responsibility For Work in Wetlands or Public Waters



MN Statutes Sections 103G.2212 and 103G.241 stipulate that an agent or employee of another may not:

- 1) drain, excavate, or fill a wetland, wholly or partially; or
- 2) construct, reconstruct, remove, or make any change in any reservoir, dam, or the course, current, or cross-section of any public water;

unless the agent or employee has obtained a signed statement from the property owner stating that any permit or wetland replacement plan required for the work has been obtained, or that a permit or replacement plan is not required; **AND** this statement is mailed to the appropriate office with jurisdiction over the wetland or public water prior to initiating the work (see next page for information on where to send this notification).

**This form is a notification only and is not an application or authorization for any activities described in it.**

## 1. PROJECT INFORMATION

Project will affect (check all that apply):

☐ Lake, Watercourse, or Public Waters Wetland    ☒ Non-Public Waters Wetland    ☐ Wetland of Unknown Jurisdiction

Address or description of project location (attach map if necessary):

Legal address

**See the attached Site Location Map. Twin Lake Blvd.**

County	Gov't Lot(s)	Quarter Section(s)	Section(s)	Township(s)	Range(s)	Lot, Block, Subd.
<b>Ramsey</b>			<b>31</b>	<b>30</b>	<b>22</b>	

Description of proposed work (include sketch and/or attach additional pages if needed):

*Twin Lake Boulevard is a shared road that is located within the City of Little Canada and the City of Vadnais Heights (Exhibit 1). The cities are planning to improve Twin Lake Boulevard during the 2023 construction season, in accordance with the Capital Improvement Plan (Little Canada) and 2022 Approved Annual Budget (Vadnais Heights). The City of Little Canada is planning a full depth reclamation along the 4600-feet of Twin Lakes Boulevard. The existing road corridor is 32-foot wide, composed of 12-foot lanes and 4-foot shoulders. The proposed corridor is 36.66-feet wide, comprised of 12-foot lanes, 2-foot shoulders, a 2-foot concrete sidewalk buffer, a 6-foot sidewalk, and B618 curb on the north side of the road. The project will also include improvements to the storm sewer, sanitary sewer, and watermain.*

## 2. LANDOWNER STATEMENT

I certify that, as the owner of the property listed on this form (check one):

- ☐ I have obtained all permits or approvals required to perform the work described above.  
☐ No permits or approvals are required for this work.

Property Owner (Print Name) <b>Bill Dircks Public Works Director</b>	Address <b>515 Little Canada Rd. E Little Canada, MN 55117</b>	
Signature <i>Bill Dircks</i>	Date <b>1-11-2023</b>	Phone Number and E-mail Address (Optional) <b>(651) 766-4049 Bill.dircks@littlecanadamn.org</b>

### 3. CONTRACTOR VERIFICATION

By signing below, I verify that I have received a signed copy of this form and will be performing the indicated work as described above.

Company and Individual Performing Proposed Work (Print)	Address	
Signature	Date	Phone Number and E-mail Address (Optional)

Note: The contractor is responsible for ensuring this form is mailed to the appropriate office when complete.

**This statement is invalid if any of the above information is not supplied or is inaccurate. Work in violation of this notification requirement is a separate and independent offense from other violations of Minnesota Statutes chapter § 103G and is a misdemeanor punishable by fines up to \$1,000 and/or 90 days in jail. The State Department of Natural Resources (DNR) Commissioner also has the authority to require restoration of any work done without the necessary permits or approvals or work that is beyond what was authorized.**

### 4. INFORMATION AND RESOURCES

A Wetland Conservation Act (WCA) replacement plan is required for any wetland draining, excavation, or filling activity that is not exempt under Minnesota Rules Chapter 8420.0420. A DNR Waters permit is required for any work in public waters.

National wetland inventory maps are available for review at the County Soil and Water Conservation District (SWCD) office and online at <http://www.fws.gov/wetlands/Data/Mapper.html>. Many wetlands are not identified on the maps but are still restricted from draining, excavating, or filling. If you are unsure the proposed work will affect a wetland, contact your local government unit (LGU) or SWCD for assistance.

Public Waters of the State of Minnesota include the channel to the top of the channel bank for watercourses and the basin from the ordinary high water level waterward for public waters (i.e. lakes) and public waters wetlands. Public waters inventory maps are available for review at the County Auditor's office, DNR Division of Waters regional offices, and online at [http://www.dnr.state.mn.us/waters/watermgmt\\_section/pwi/download.html](http://www.dnr.state.mn.us/waters/watermgmt_section/pwi/download.html).

General information about public waters, wetlands, and related regulations are available on the DNR website at <http://mndnr.gov> and the MN Board of Water and Soil Resources (BWSR) website at <http://www.bwsr.state.mn.us>.

### 5. WHERE TO SEND THIS NOTIFICATION

- For work in public waters (lake, watercourse, or public waters wetland), send this completed form to the DNR Regional Enforcement Office serving the project's area. See below for DNR regional office information. A map of DNR regions can be found on the DNR website at: [http://files.dnr.state.mn.us/aboutdnr/dnr\\_regions.pdf](http://files.dnr.state.mn.us/aboutdnr/dnr_regions.pdf)
- For work in any wetland that is not a public waters wetland, send this completed form to the WCA LGU with jurisdiction over the project area. The LGU is usually the County or SWCD, except in urban areas the City is often the LGU. Contact any of these local governments or BWSR for assistance. BWSR also maintains a list of LGUs on its website at: <http://www.bwsr.state.mn.us/directories/WCA.pdf>.
- If it is not known if the wetland is a public waters wetland, send the completed form to both the DNR Regional Enforcement Office and the WCA LGU.

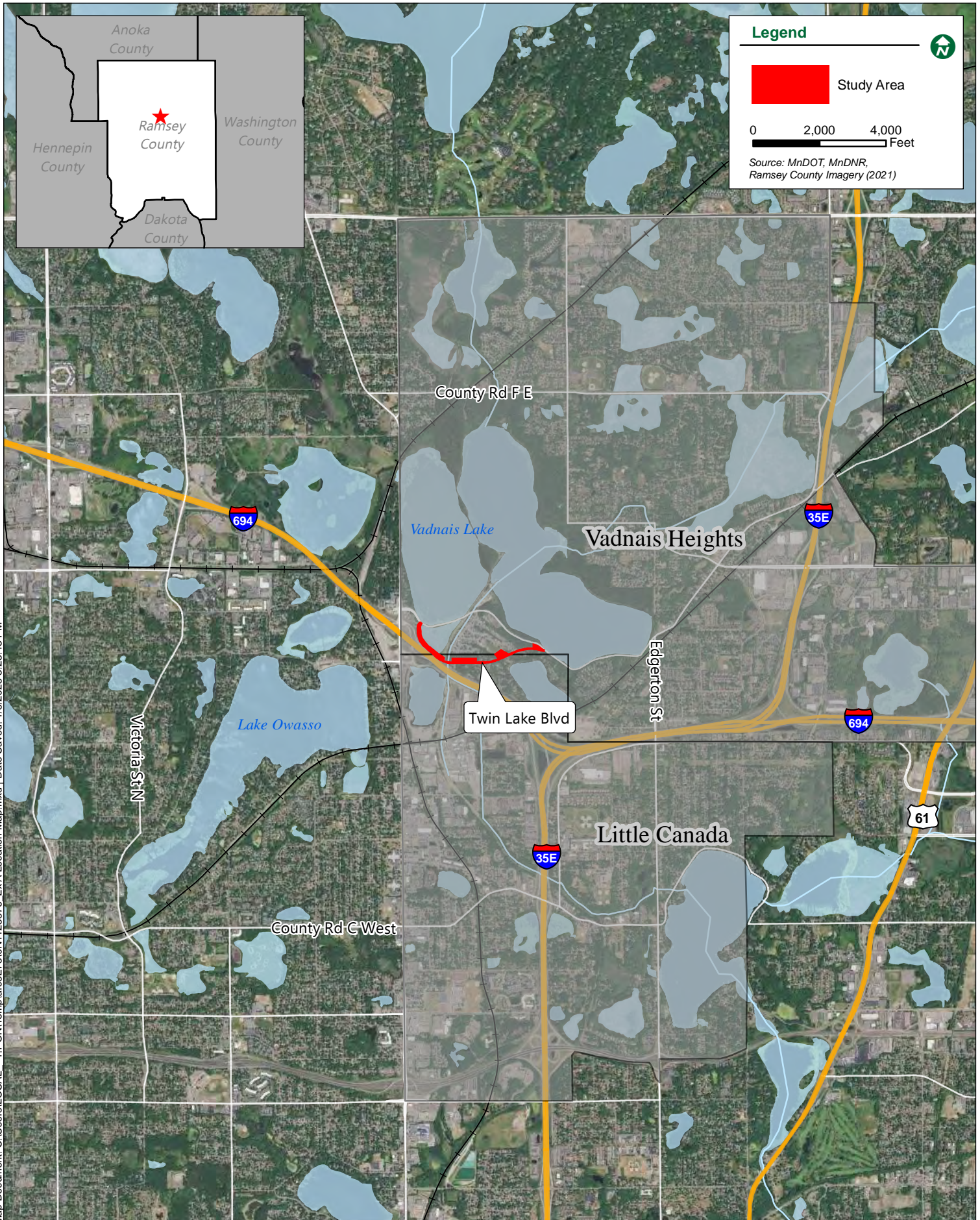
#### Department of Natural Resources Regional Offices

<u>Northwest Region:</u> 2115 Birchmont Beach Rd. NE Bemidji, MN 56601 Phone: 218-308-2700	<u>Northeast Region:</u> 1201 E. Hwy. 2 Grand Rapids, MN 55744 Phone: 218-327-4455	<u>Central Region:</u> 1200 Warner Road St. Paul, MN 55106 Phone: 651-259-5800	<u>Southern Region:</u> 261 Hwy. 15 South New Ulm, MN 56073 Phone: 507-359-6000
---	---	---	--

Keep a copy of this form for your records!

# Appendix













## Twin Lake Blvd Improvements

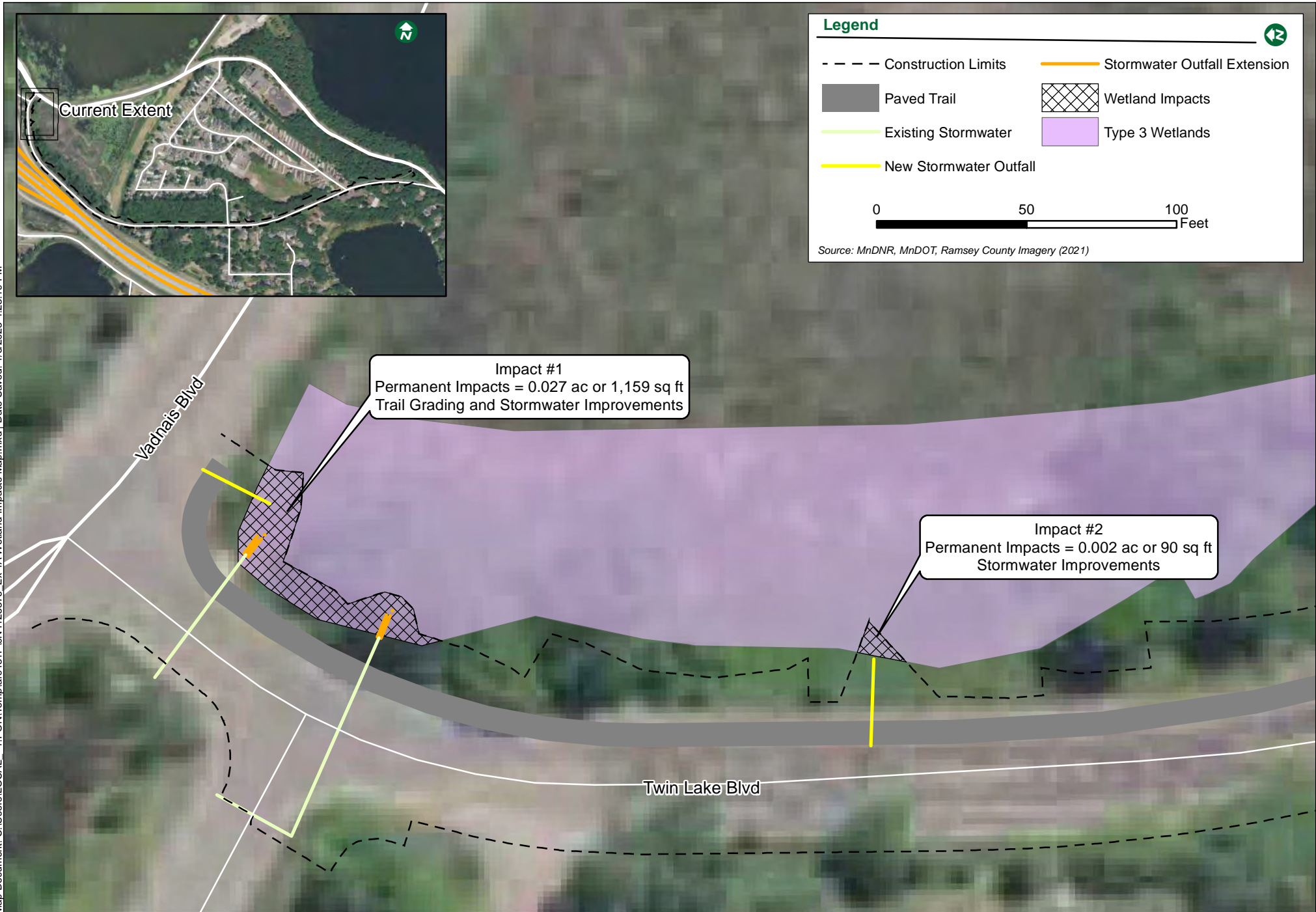
Vadnais Heights and Little Canada, Ramsey County, MN

### Exhibit 3: Site Layout Map

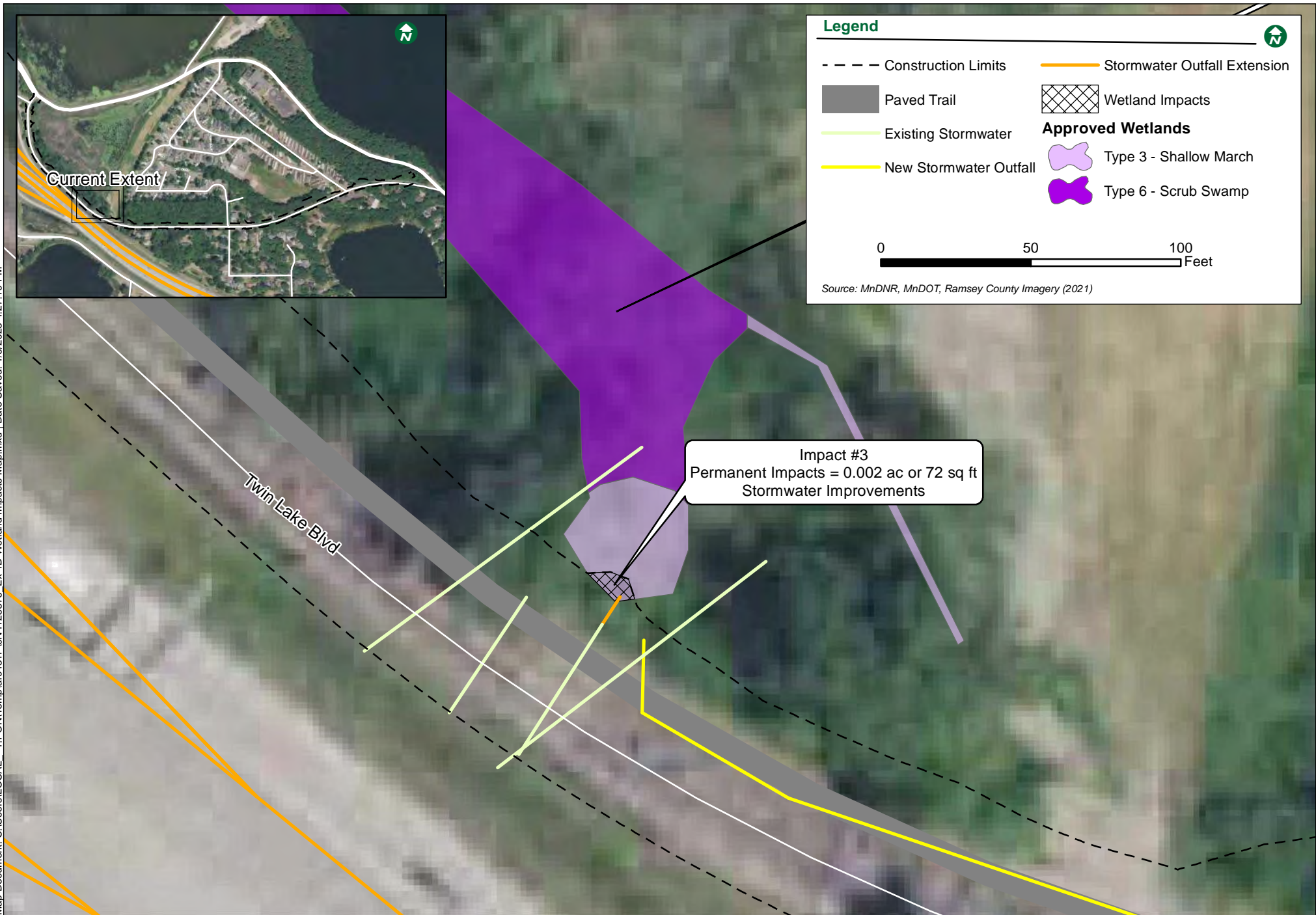
January 2023











DESIGN DESIGNATION

STA. 0+00.00 TO STA. 45+66.63

FUNTIONAL CLASSIFICATION	LOCAL STREET
R-VALUE	15
ΣN-18	87,000
NO. & WIDTH OF TRAFFIC LANES	2 & 12 ft
NO. & WIDTH OF PARKING LANES	0 & N/A
ADT (PRESENT YEAR) 2023	560
ADT (PROJECTED YEAR) 2043	940
HCA DT (PROJECTED YEAR) 2043	3.85%
DESIGN SPEED	35 mph
DESIGN LOAD	10 ton

DESIGN SPEED NOT ACHIEVED AT: N/A

N/A

DESIGN SPEED FOR ROADWAY BASED ON

ON STOPPING SIGHT DISTANCE:

HEIGHT OF EYE = 3.5 FT

HEIGHT OF OBJECT = 2.0 FT

# MINNESOTA DEPARTMENT OF TRANSPORTATION

## CITY OF LITTLE CANADA AND CITY OF VADNAIS HEIGHTS

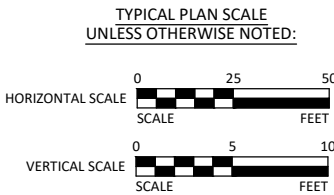
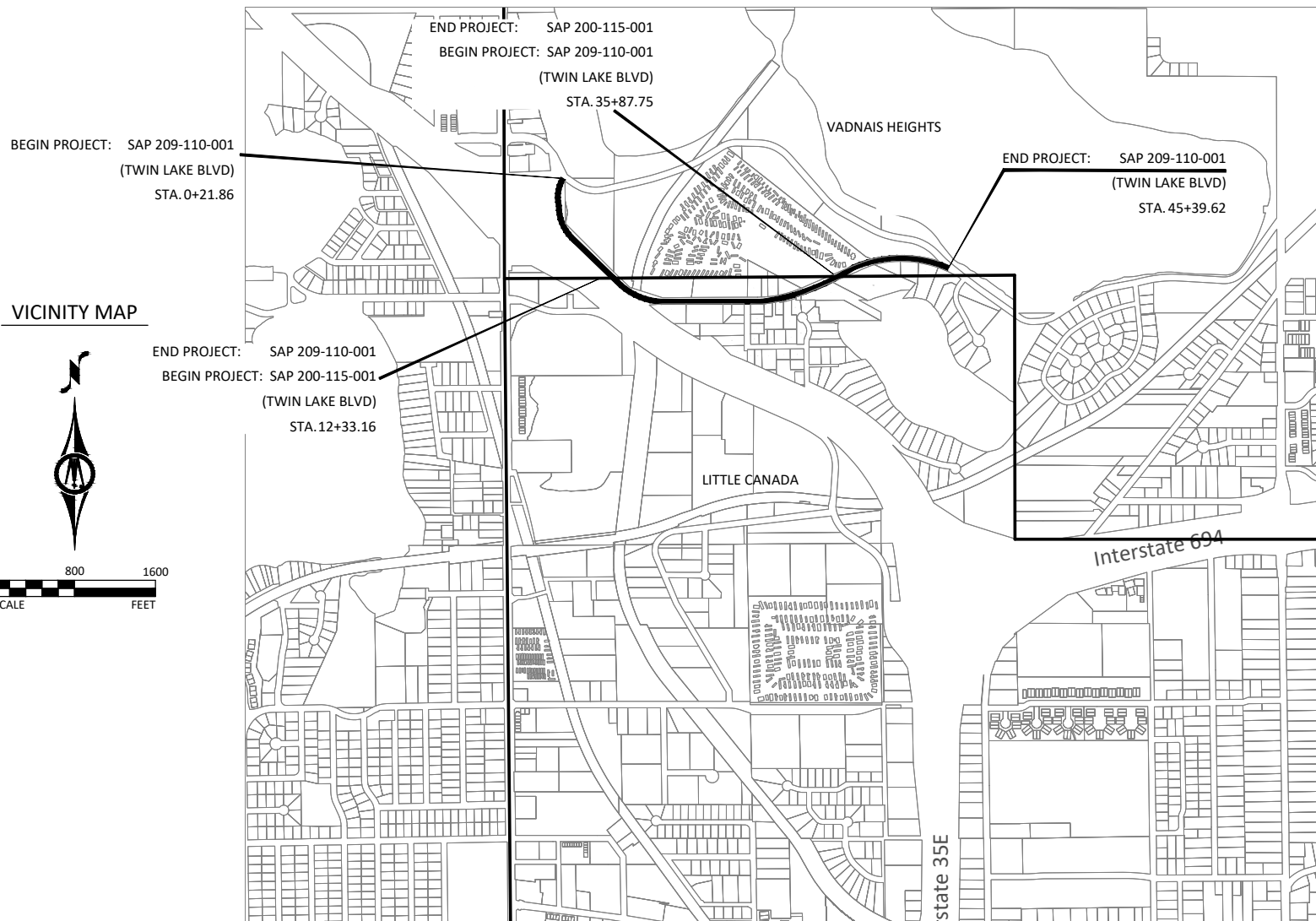
### TWIN LAKE BOULEVARD IMPROVEMENTS

CONSTRUCTION PLAN FOR:		AGGREGATE BASE, PLANT MIXED BITUMINOUS PAVEMENT, CONCRETE CURB AND GUTTER, ADA IMPROVEMENTS, STORM SEWER, SANITARY SEWER, WATER MAIN, TRAIL			
SAP 612-629-747 & 200-115-001 LOCATED ON	TWIN LAKE BLVD	FROM	EAST INTERSECTION OF CSAH 16 AND TWIN LAKE BLVD	TO	WEST INTERSECTION OF CSAH 16 AND TWIN LAKE BLVD (GEOGRAPHICAL DESCRIPTION)
		FROM	S31 T30N 22W	TO	S31 T30N 22W (LEGAL DESCRIPTION)

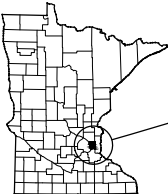
SAP 209-110-001 (VADNAIS HEIGHTS)				SAP 200-115-001 (LITTLE CANADA)			
GROSS LENGTH	2163.17	FEET	0.41	MILES	GROSS LENGTH	2354.59	FEET 0.45 MILES
BRIDGE LENGTH		FEET		MILES	BRIDGE LENGTH		FEET MILES
EXCEPTION LENGTH		FEET		MILES	EXCEPTION LENGTH		FEET MILES
NET LENGTH	2163.17	FEET	0.41	MILES	NET LENGTH	2354.59	FEET 0.45 MILES

LENGTH AND DESCRIPTION  
STA 0+21.86 TO 12+33.16 AND STA 35+87.75 TO 45+39.62  
[TOTAL LENGTH = 2163.17FT]

LENGTH AND DESCRIPTION  
STA 12+33.16 TO 35+87.75 [TOTAL LENGTH = 2354.59 FT]



PROJECT LOCATION



LITTLE  
CANADA/VANDAI  
S HEIGHTS  
CITY: \_\_\_\_\_  
COUNTY: RAMSEY  
DISTRICT: METRO

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D UNLESS OTHERWISE NOTED. THIS UTILITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."

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.

**DRAFT SET**

ERIC J. SEABURG  
LIC. NO. 53712 DATE 01/25/2023



DESIGNED	MAJ	NO.	ISSUED FOR	DATE
DRAWN	JKB			
CHECKED	EJS			
CLIENT PROJ. NO.	0N1.125376			

RECORD DRAWING INFORMATION	
OBSERVER:	
CONTRACTOR:	
DATE:	

PROJECT DATUM:  
HORIZONTAL: Ramsey County (86 ADJ)  
VERTICAL: NAVD 88

MINN. PROJ. NO. SAP 200-115-001 & 209-110-001

--- GOVERNING SPECIFICATIONS ---  
THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATION FOR CONSTRUCTION", INCLUDING THE 2022 SUPPLEMENTAL SPECIFICATIONS, SHALL GOVERN.  
ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM AND BE INSTALLED IN ACCORDANCE WITH THE LATEST "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MN MUTCD) AND PART VI, THE LATEST "FIELD MANUAL" FOR TEMPORARY TRAFFIC CONTROL DEVICES.

SHEET ID	SHEET TITLE
GENERAL	
G0.01	TITLE SHEET
G0.02	LEGEND
G0.03	LOCATION PLAN
G1.01 - G1.0X	STATEMENT OF ESTIMATED QUANTITIES
G2.01 - G2.0X	GENERAL LAYOUT
CIVIL	
C0.01 - C0.02	EXISTING CONDITIONS AND REMOVALS
C1.01 - C1.0X	TABULATIONS
C1.01 - C1.11	TYPICAL SECTIONS, CITY STANDARD DETAILS, & PED RAMP STANDARD DETAILS
C2.01 - C2.0X	STORMWATER POLLUTION PREVENTION PLAN
C3.01 - C3.0X	GRADING PLAN
C4.01 - C4.05	SANITARY SEWER & WATERMAIN PLAN & PROFILE
C5.01 - C5.02	STORM SEWER PLAN & PROFILE
C6.01 - C6.07	STREET PLAN & PROFILE
C6.15 - C6.19	INTERSECTION DETAILS
C7.01 - C7.04	TRAFFIC CONTROL PLAN AND SIGNAGE & STRIPING
C8.01 - C8.14	CROSS SECTIONS

ERIC J. SEABURG  
Design Engineer: 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.

Date 01/25/2023 License Number 53712

Approved: LITTLE CANADA CITY ENGINEER Date \_\_\_\_\_

Approved: VADNAIS HEIGHTS CITY ENGINEER Date \_\_\_\_\_

District State Aid Engineer:  
Reviewed for compliance with State Aid Rules/Policy Date \_\_\_\_\_

Approved for State Aid Funding: State Aid Engineer Date \_\_\_\_\_

LITTLE CANADA, MINNESOTA	SHEET
TWIN LAKE BOULEVARD IMPROVEMENTS	G0.01
STATE AID PROJECT NO. <u>200-115-001 &amp; 209-110-001</u>	



EXISTING TOPOGRAPHIC SYMBOLS

	ACCESS GRATE		REGULATION STATION GAS
	AIR CONDITION UNIT		SATELLITE DISH
	ANTENNA		SIGN NON TRAFFIC
	AUTO SPRINKLER CONNECTION		SIGN TRAFFIC
	BARRICADE PERMANENT		SIGNAL CONTROL CABINET
	BASKETBALL POST		SOIL BORING
	BENCH		SIREN
	BIRD FEEDER		TELEPHONE BOOTH
	BOLLARD		TILE INLET
	BUSH		TILE OUTLET
	CATCH BASIN RECTANGULAR CASTING		TILE RISER
	CATCH BASIN CIRCULAR CASTING		TRANSFORMER-ELECTRIC
	CURB STOP		TREE-CONIFEROUS
	CLEAN OUT		TREE-DEAD
	CULVERT END		TREE-DECIDUOUS
	DRINKING FOUNTAIN		TREE STUMP
	DOWN SPOUT		TRAFFIC ARM BARRIER
	FILL PIPE		TRAFFIC SIGNAL
	FIRE HYDRANT		TRASH CAN
	FLAG POLE		UTILITY MARKER
	FLARED END / APRON		VALVE
	FUEL PUMP		VALVE POST INDICATOR
	GRILL		VALVE VAULT
	GUY WIRE ANCHOR		VAULT
	HANDHOLE		VENT PIPE
	HANDICAP SPACE		WATER SPIGOT
	IRRIGATION SPRINKLER HEAD		WELL
	IRRIGATION VALVE BOX		WETLAND DELINEATED MARKER
	LIFT STATION CONTROL PANEL		WETLAND
	LIFT STATION		WET WELL
	LIGHT ON POLE		YARD HYDRANT
	LIGHT-GROUND		
	MAILBOX		

PROPOSED TOPOGRAPHIC SYMBOLS

	CLEANOUT
	MANHOLE
	LIFT STATION
	STORM SEWER CIRCULAR CASTING
	STORM SEWER RECTANGULAR CASTING
	STORM SEWER FLARED END / APRON
	STORM SEWER OUTLET STRUCTURE
	STORM SEWER OVERFLOW STRUCTURE
	CURB BOX
	FIRE HYDRANT
	WATER VALVE
	WATER REDUCER
	WATER BEND
	WATER TEE
	WATER CROSS
	WATER SLEEVE
	WATER CAP / PLUG
	RIP RAP
	DRAINAGE FLOW
	TRAFFIC SIGNS

SURVEY SYMBOLS

	BENCHMARK LOCATION		CAST IRON MONUMENT
	CONTROL POINT		STONE MONUMENT
	MONUMENT FOUND		

EXISTING TOPOGRAPHIC LINES

	RETAINING WALL
	FENCE
	FENCE-DECORATIVE
	GUARD RAIL
	TREE LINE
	BUSH LINE

SURVEY LINES

	CONTROLLED ACCESS
	BOUNDARY
	CENTERLINE
	EXISTING EASEMENT LINE
	PROPOSED EASEMENT LINE
	EXISTING LOT LINE
	PROPOSED LOT LINE
	EXISTING RIGHT-OF-WAY
	PROPOSED RIGHT-OF-WAY
	SETBACK LINE
	SECTION LINE
	QUARTER LINE
	SIXTEENTH LINE
	TEMPORARY EASEMENT

EXISTING UTILITY LINES

	FORCEMAIN
	SANITARY SEWER
	SANITARY SERVICE
	STORM SEWER
	STORM SEWER DRAIN TILE
	WATERMAIN
	WATER SERVICE

PROPOSED UTILITY LINES

	FORCEMAIN
	SANITARY SEWER
	SANITARY SERVICE
	STORM SEWER
	STORM SEWER DRAIN TILE
	WATERMAIN
	WATER SERVICE
	PIPE CASING
	TRENCHLESS PIPE (PLAN VIEW)
	TRENCHLESS PIPE (PROFILE VIEW)

GRADING INFORMATION

	EXISTING CONTOUR MINOR
	EXISTING CONTOUR MAJOR
	PROPOSED CONTOUR MINOR
	PROPOSED CONTOUR MAJOR
	PROPOSED GRADING LIMITS / SLOPE LIMITS
	PROJECT LIMITS
	PROPOSED SPOT ELEVATION
	RISE:RUN (SLOPE)

HATCH PATTERNS

	BITUMINOUS		GRAVEL		BRICK
	CONCRETE		BITUMINOUS DRIVEWAY		

EXISTING PRIVATE UTILITY LINES

NOTE:  
EXISTING UTILITY INFORMATION SHOWN ON THIS PLAN HAS BEEN PROVIDED BY THE UTILITY OWNER. THE CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS PRIOR TO COMMENCING CONSTRUCTION AS REQUIRED BY STATE LAW. NOTIFY GOPHER STATE ONE CALL, 1-800-252-1166 OR 651-454-0002.

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D UNLESS OTHERWISE NOTED. THIS UTILITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA"

	UNDERGROUND FIBER OPTIC
	UNDERGROUND ELECTRIC
	UNDERGROUND GAS
	UNDERGROUND COMMUNICATION
	OVERHEAD ELECTRIC
	OVERHEAD COMMUNICATION
	OVERHEAD UTILITY

UTILITIES IDENTIFIED WITH A QUALITY LEVEL :

LINE TYPES FOLLOW THE FORMAT: UTILITY TYPE - QUALITY LEVEL  
EXAMPLE: G-A G-A UNDERGROUND GAS, QUALITY LEVEL A  
UTILITY QUALITY LEVEL (A,B,C,D) DEFINITIONS CAN BE FOUND IN CI/ASCE 38-02.

UTILITY QUALITY LEVELS:

QUALITY LEVEL D: PROVIDES THE MOST BASIC LEVEL OF INFORMATION. IT INVOLVES COLLECTING DATA FROM EXISTING UTILITY RECORDS. RECORDS MAY INCLUDE AS-BUILT DRAWINGS, DISTRIBUTION AND SERVICES MAPS, EXISTING GEOGRAPHIC INFORMATION SYSTEM DATABASES, CONSTRUCTION PLANS, ETC.

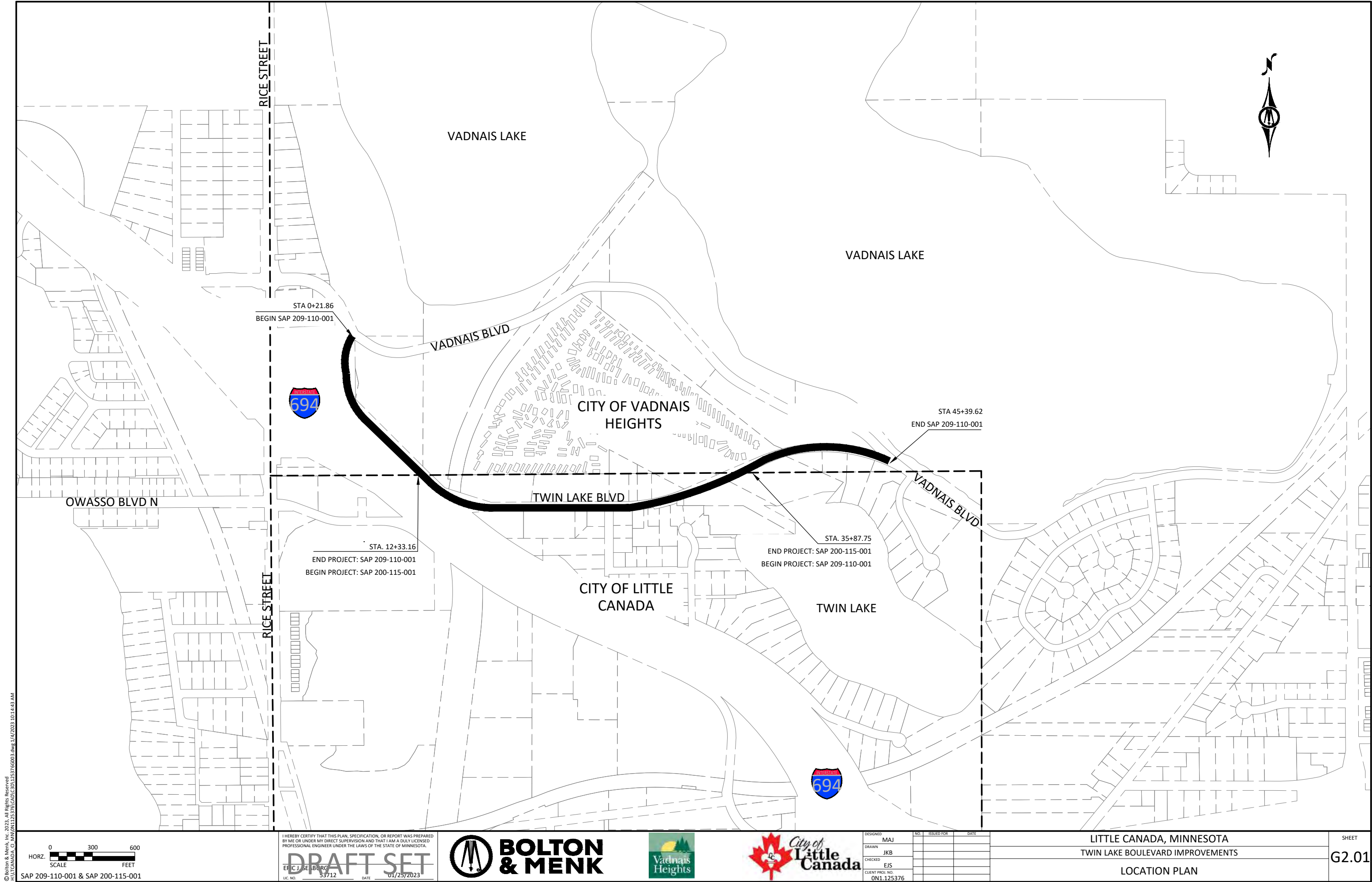
QUALITY LEVEL C: INVOLVES SURVEYING VISIBLE SUBSURFACE UTILITY STRUCTURES SUCH AS MANHOLES, HAND-HOLES, UTILITY VALVES AND METERS, FIRE HYDRANTS, PEDESTALS AND UTILITY MARKERS, AND THEN CORRELATING THE INFORMATION WITH EXISTING UTILITY RECORDS TO CREATE COMPOSITE DRAWINGS. INCLUDES QUALITY LEVEL D ACTIVITIES.

QUALITY LEVEL B: INVOLVES DESIGNATING THE HORIZONTAL POSITION OF SUBSURFACE UTILITIES THROUGH SURFACE DETECTION METHODS AND COLLECTING THE INFORMATION THROUGH A SURVEY METHOD. INCLUDES QUALITY LEVEL C AND D TASKS.

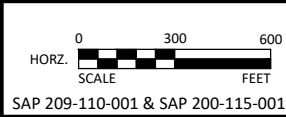
QUALITY LEVEL A: PROVIDES THE HIGHEST LEVEL OF ACCURACY. IT INVOLVES LOCATING OR POTHOLING UTILITIES AS WELL AS ACTIVITIES IN QUALITY LEVELS B, C, AND D. THE LOCATED FACILITY INFORMATION IS SURVEYED AND MAPPED AND THE DATA PROVIDES PRECISE PLAN AND PROFILE INFORMATION.

ABBREVIATIONS

A	ALGEBRAIC DIFFERENCE	GRAV	GRAVEL	RSC	RIGID STEEL CONDUIT
ADJ	ADJUST	GU	GUTTER	RT	RIGHT
ALT	ALTERNATE	GV	GATE VALVE	SAN	SANITARY SEWER
B-B	BACK TO BACK	HDPE	HIGH DENSITY POLYETHYLENE	SCH	SCHEDULE
BIT	BITUMINOUS	HH	HANDHOLE	SERV	SERVICE
BLDG	BUILDING	HP	HIGH POINT	SHLD	SHOULDER
BMP	BEST MANAGEMENT PRACTICE	HWL	HIGH WATER LEVEL	STA	STATION
BR	BEGIN RADIUS	HYD	HYDRANT	STD	STANDARD
BV	BUTTERFLY VALVE	I	INVERT	STM	STORM SEWER
CB	CATCH BASIN	K	CURVE COEFFICIENT	TC	TOP OF CURB
C&G	CURB AND GUTTER	L	LENGTH	TE	TEMPORARY EASEMENT
CIP	CAST IRON PIPE	LO	LOWEST OPENING	TEMP	TEMPORARY
CIPP	CURED-IN-PLACE PIPE	LP	LOW POINT	TNH	TOP NUT HYDRANT
CL	CENTER LINE	LT	LEFT	TP	TOP OF PIPE
CL	CLASS	MAX	MAXIMUM	TYP	TYPICAL
CLVT	CULVERT	MH	MANHOLE	VCP	VITRIFIED CLAY PIPE
CMP	CORRUGATED METAL PIPE	MIN	MINIMUM	VERT	VERTICAL
C.O.	CHANGE ORDER	MR	MID RADIUS	VPC	VERTICAL POINT OF CURVE
COMM	COMMUNICATION	NIC	NOT IN CONTRACT	VPI	VERTICAL POINT OF INTERSECTION
CON	CONCRETE	NMC	NON-METALLIC CONDUIT	VPT	VERTICAL POINT OF TANGENT
CSP	CORRUGATED STEEL PIPE	NTS	NOT TO SCALE	WM	WATERMAIN
DIA	DIAMETER	NWL	NORMAL WATER LEVEL		
DIP	DUCTILE IRON PIPE	OHW	ORDINARY HIGH WATER LEVEL		
DWY	DRIVEWAY	PC	POINT OF CURVE	AC	ACRES
E	EXTERNAL CURVE DISTANCE	PCC	POINT OF COMPOUND CURVE	CF	CUBIC FEET
ELEC	ELECTRIC	PE	PERMANENT EASEMENT	CV	COMPACTED VOLUME
ELEV	ELEVATION	PED	PEDESTRIAN, PEDESTAL	CY	CUBIC YARD
EOF	EMERGENCY OVERFLOW	PERF	PERFORATED PIPE	EA	EACH
ER	END RADIUS	PERM	PERMANENT	EV	EXCAVATED VOLUME
ESMT	EASEMENT	PI	POINT OF INTERSECTION	LB	POUND
EX	EXISTING	PL	PROPERTY LINE	LF	LINEAR FEET
FES	FLARED END SECTION	PRC	POINT OF REVERSE CURVE	LS	LUMP SUM
F-F	FACE TO FACE	PT	POINT OF TANGENT	LV	LOOSE VOLUME
FF	FINISHED FLOOR	PVC	POLYVINYL CHLORIDE PIPE	SF	SQUARE FEET
F&I	FURNISH AND INSTALL	PVMT	PAVEMENT	SV	STOCKPILE VOLUME
FM	FORCEMAIN	R	RADIUS	SY	SQUARE YARD
FO	FIBER OPTIC	R/W	RIGHT-OF-WAY		
F.O.	FIELD ORDER	RCP	REINFORCED CONCRETE PIPE		
GRAN	GRANULAR	RET	RETAINING		



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C:\Users\jburg\OneDrive\Documents\125376\CAD\CDN\125376003.dwg 1/4/2023 10:14:43 AM



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.

**DRAFT SET**

ERIC J. SEIBURG  
LIC. NO. 53712 DATE 01/25/2023

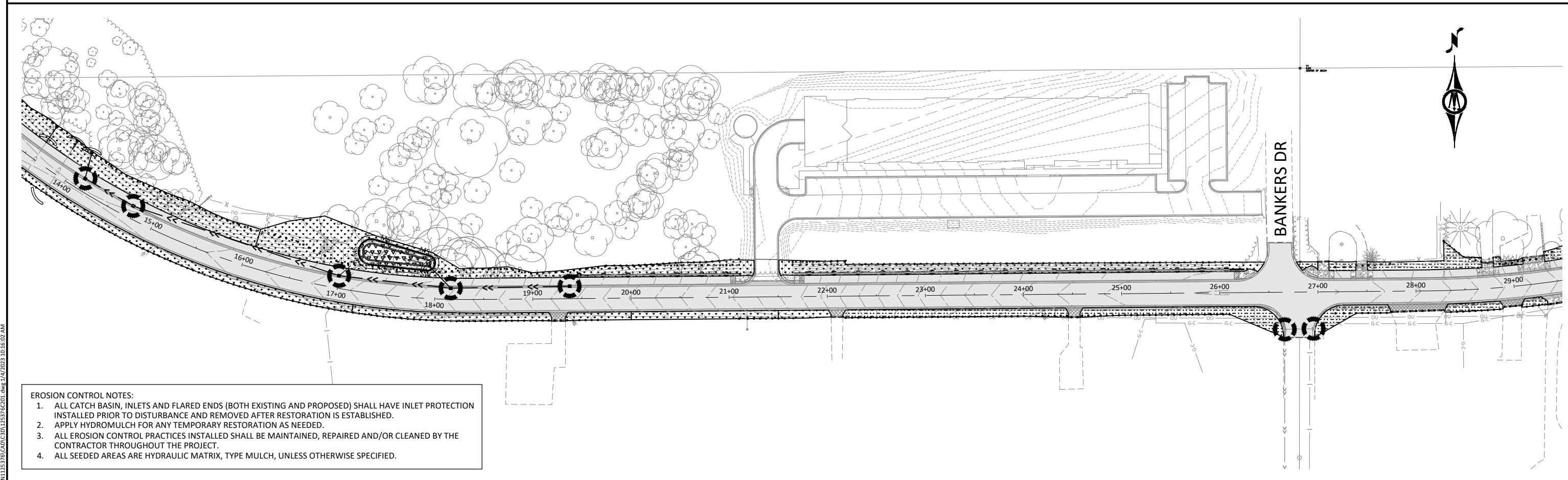
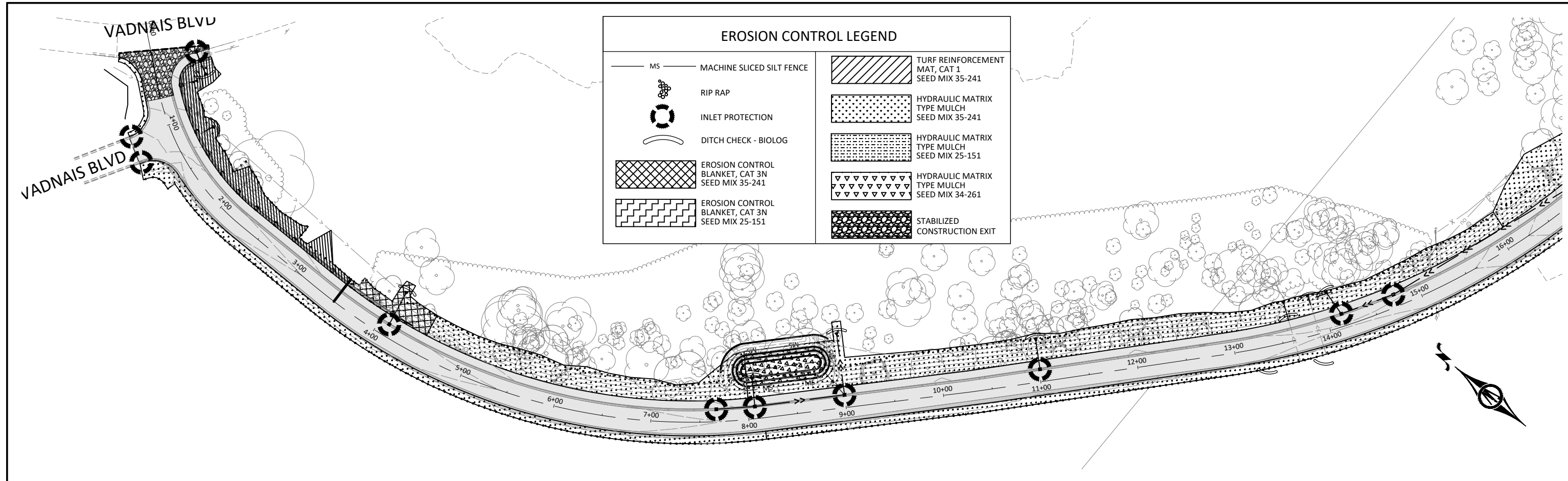


DESIGNED	MAJ	NO.	ISSUED FOR	DATE
DRAWN	JKB			
CHECKED	EJS			
CLIENT PROJ. NO.	0N1.125376			

LITTLE CANADA, MINNESOTA
TWIN LAKE BOULEVARD IMPROVEMENTS
LOCATION PLAN

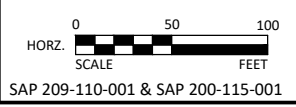
SHEET  
**G2.01**





- EROSION CONTROL NOTES:**
1. ALL CATCH BASIN, INLETS AND FLARED ENDS (BOTH EXISTING AND PROPOSED) SHALL HAVE INLET PROTECTION INSTALLED PRIOR TO DISTURBANCE AND REMOVED AFTER RESTORATION IS ESTABLISHED.
  2. APPLY HYDROMULCH FOR ANY TEMPORARY RESTORATION AS NEEDED.
  3. ALL EROSION CONTROL PRACTICES INSTALLED SHALL BE MAINTAINED, REPAIRED AND/OR CLEANED BY THE CONTRACTOR THROUGHOUT THE PROJECT.
  4. ALL SEEDED AREAS ARE HYDRAULIC MATRIX, TYPE MULCH, UNLESS OTHERWISE SPECIFIED.

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LITTLE CANADA, MINNESOTA 01/25/2023 10:16:02 AM



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.

**DRAFT SET**

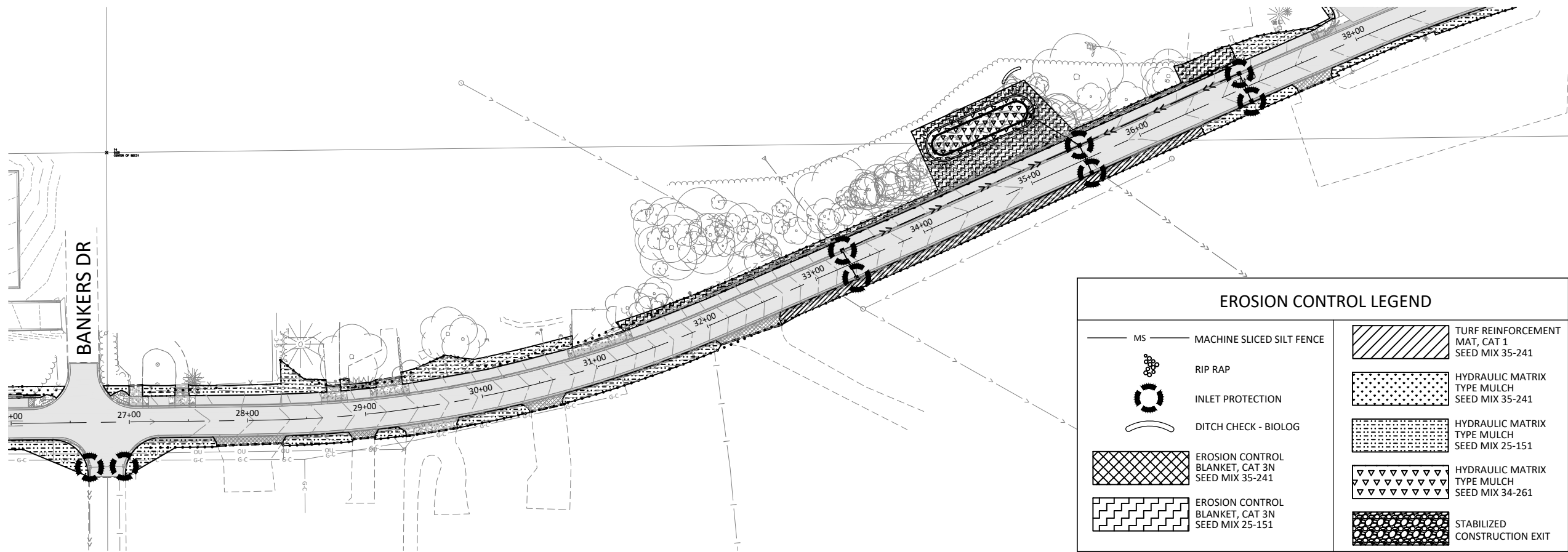
ERIC J. SEIBURG  
LIC. NO. 53712 DATE 01/25/2023



DESIGNED	MAJ	NO.	ISSUED FOR	DATE
DRAWN	JKB			
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CLIENT PROJ. NO.	0N1.125376			

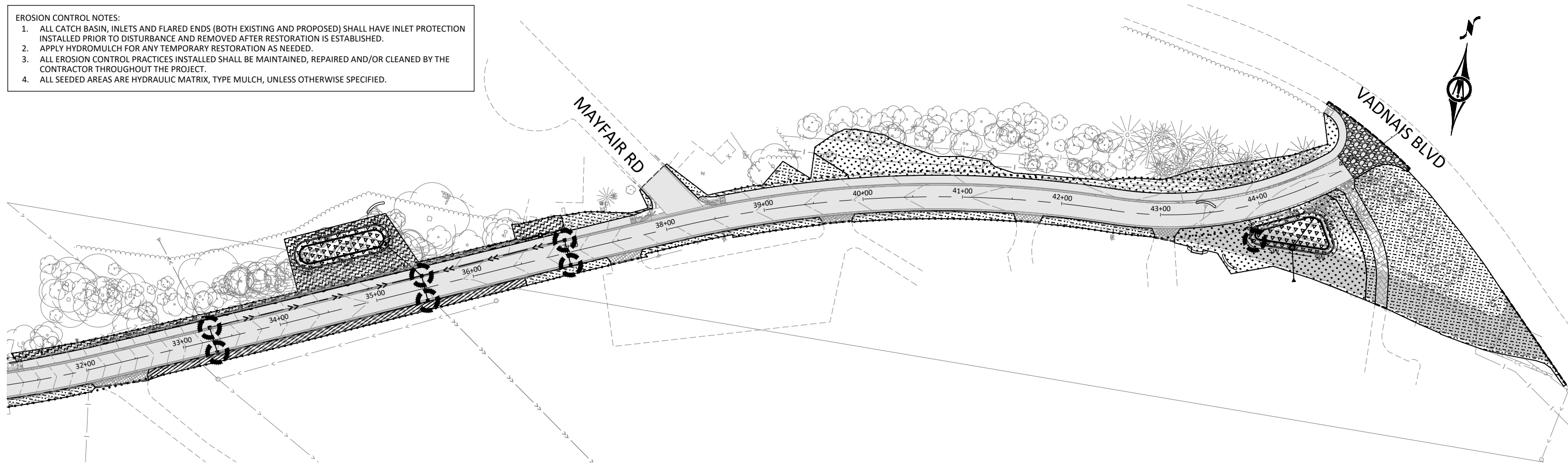
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C2 - EROSION CONTROL

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EROSION CONTROL LEGEND			
MS	MACHINE SLICED SILT FENCE		TURF REINFORCEMENT MAT, CAT 1 SEED MIX 35-241
	RIP RAP		HYDRAULIC MATRIX TYPE MULCH SEED MIX 35-241
	INLET PROTECTION		HYDRAULIC MATRIX TYPE MULCH SEED MIX 25-151
	DITCH CHECK - BIOLOG		HYDRAULIC MATRIX TYPE MULCH SEED MIX 34-261
	EROSION CONTROL BLANKET, CAT 3N SEED MIX 35-241		STABILIZED CONSTRUCTION EXIT
	EROSION CONTROL BLANKET, CAT 3N SEED MIX 25-151		

- EROSION CONTROL NOTES:
1. ALL CATCH BASIN, INLETS AND FLARED ENDS (BOTH EXISTING AND PROPOSED) SHALL HAVE INLET PROTECTION INSTALLED PRIOR TO DISTURBANCE AND REMOVED AFTER RESTORATION IS ESTABLISHED.
  2. APPLY HYDROMULCH FOR ANY TEMPORARY RESTORATION AS NEEDED.
  3. ALL EROSION CONTROL PRACTICES INSTALLED SHALL BE MAINTAINED, REPAIRED AND/OR CLEANED BY THE CONTRACTOR THROUGHOUT THE PROJECT.
  4. ALL SEEDED AREAS ARE HYDRAULIC MATRIX, TYPE MULCH, UNLESS OTHERWISE SPECIFIED.



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SAP 209-110-001 & SAP 200-115-001

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ERIC J. SEBORG  
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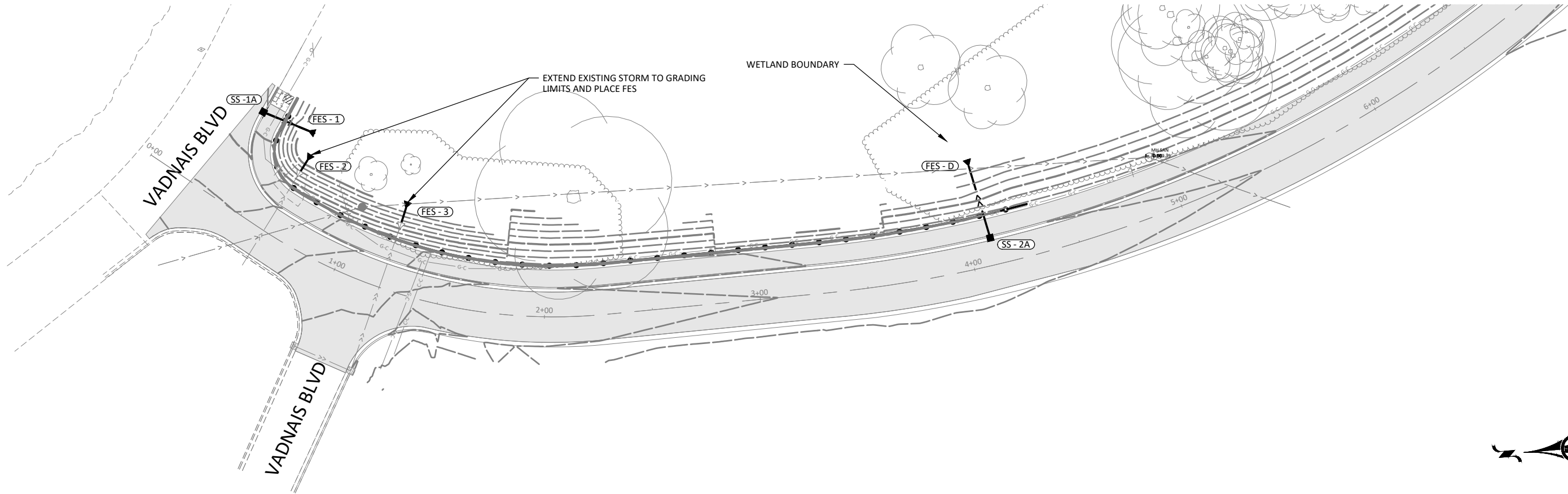


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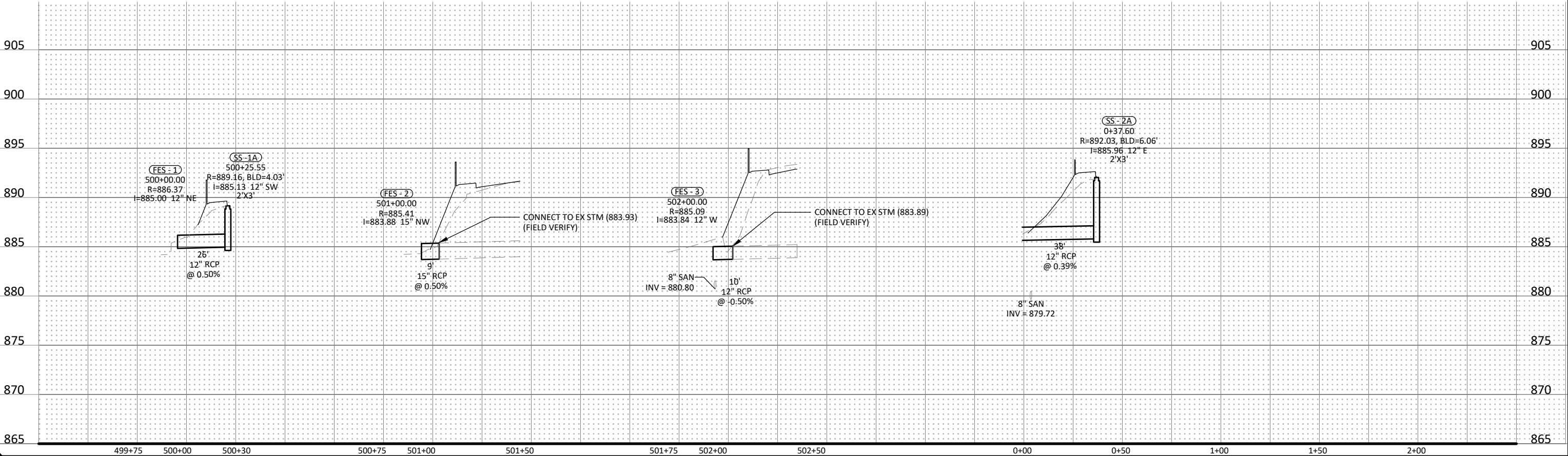
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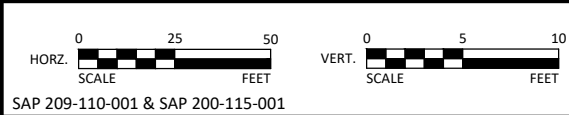




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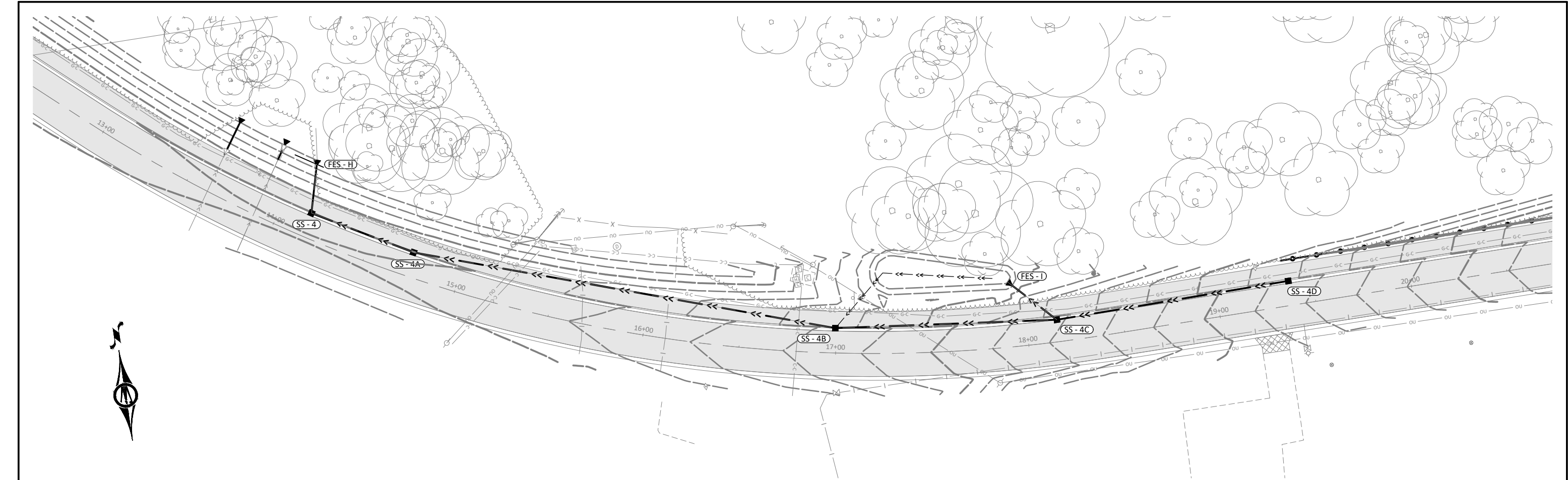


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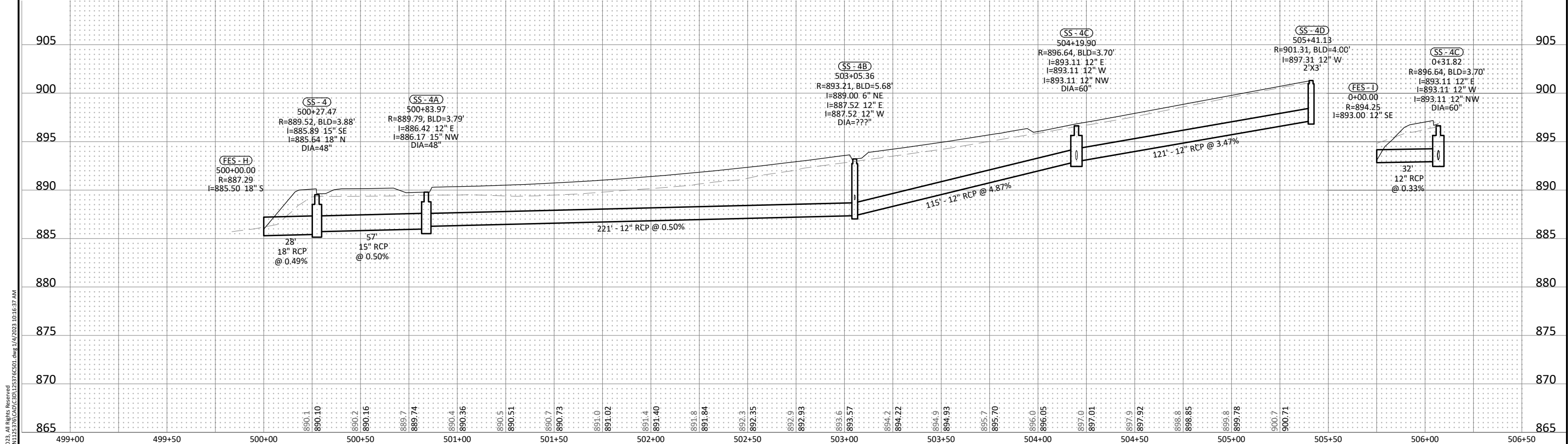


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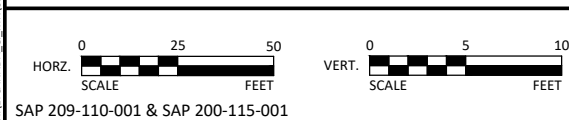
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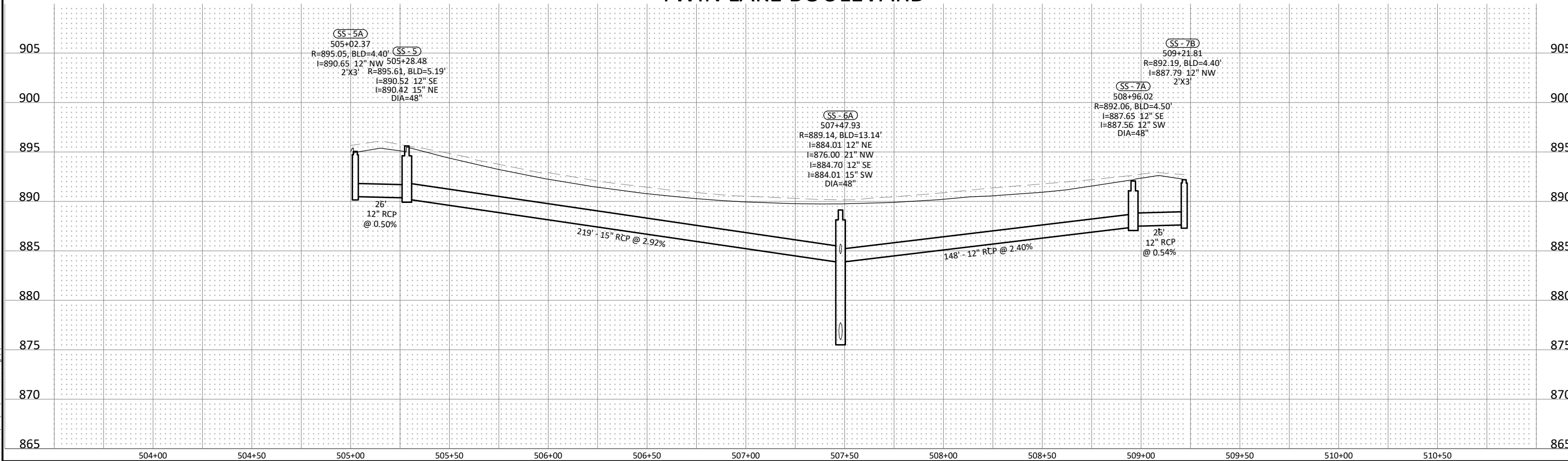
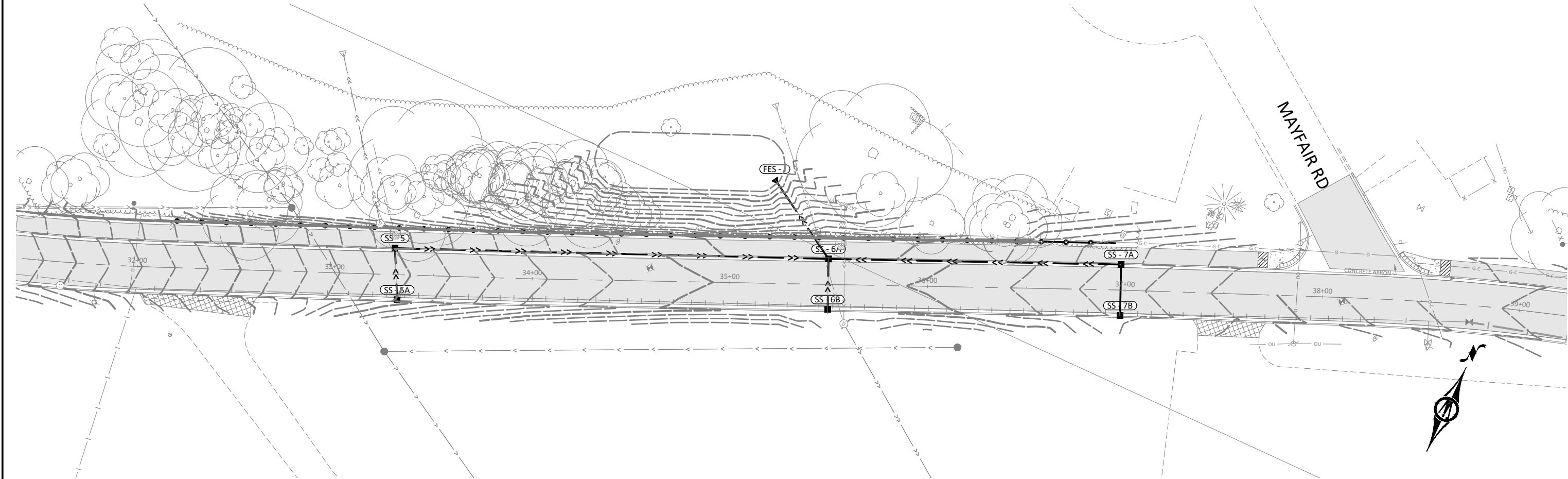
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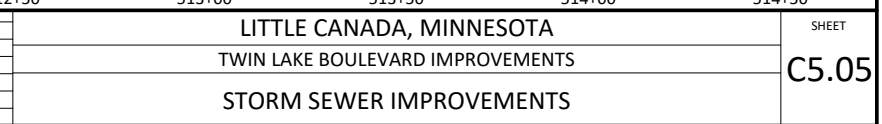
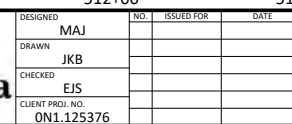
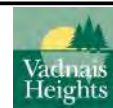
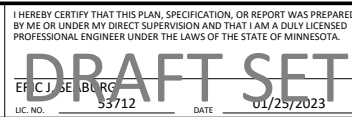
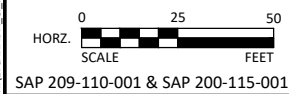
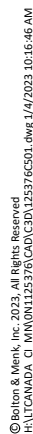
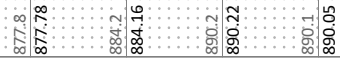
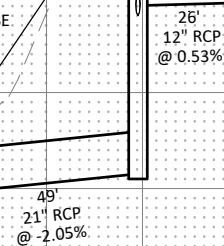
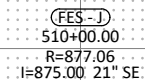
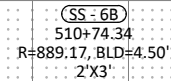
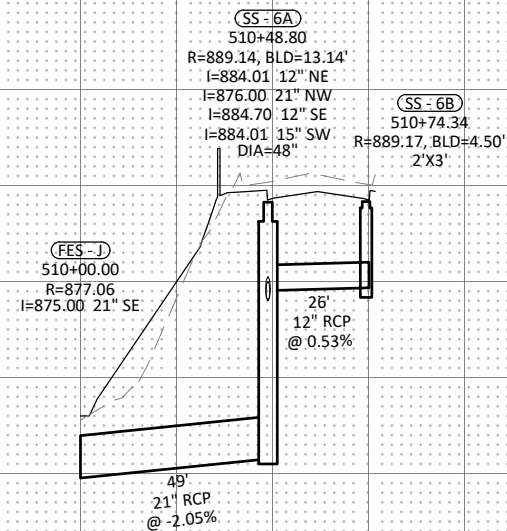
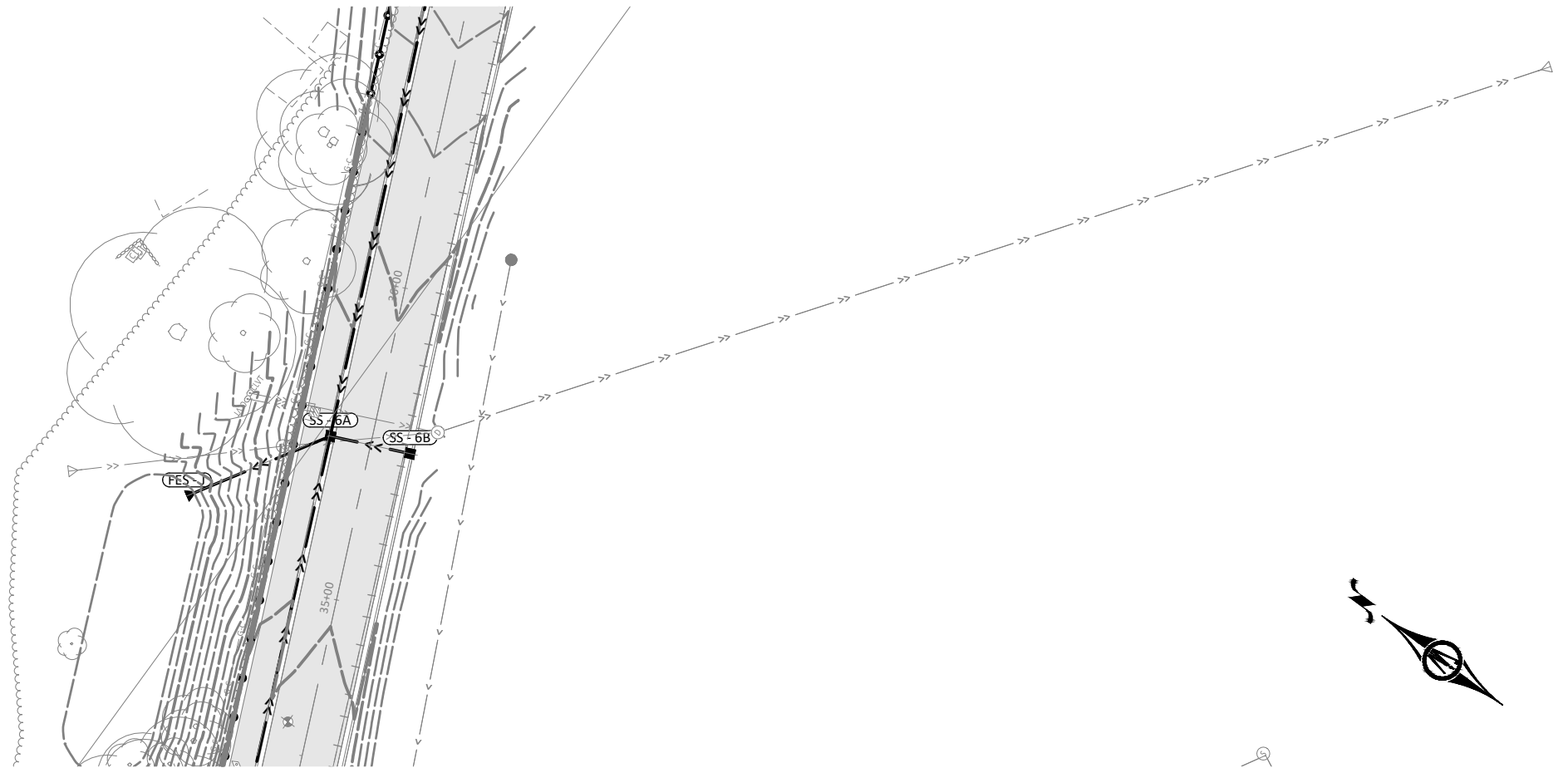


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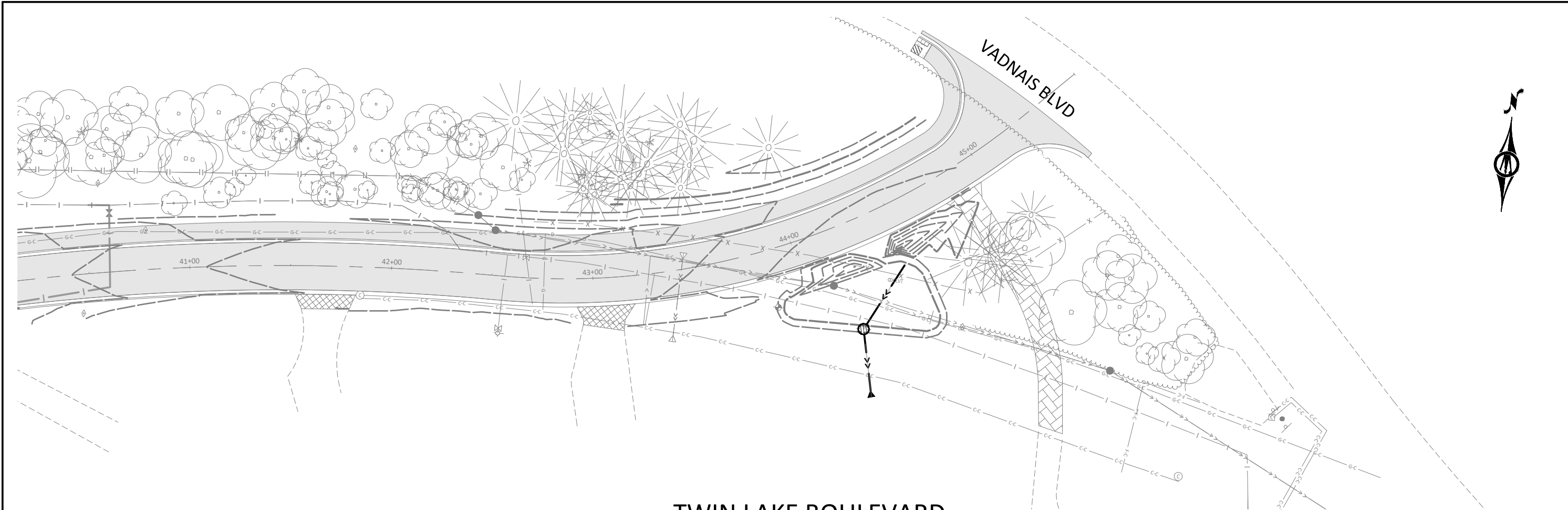
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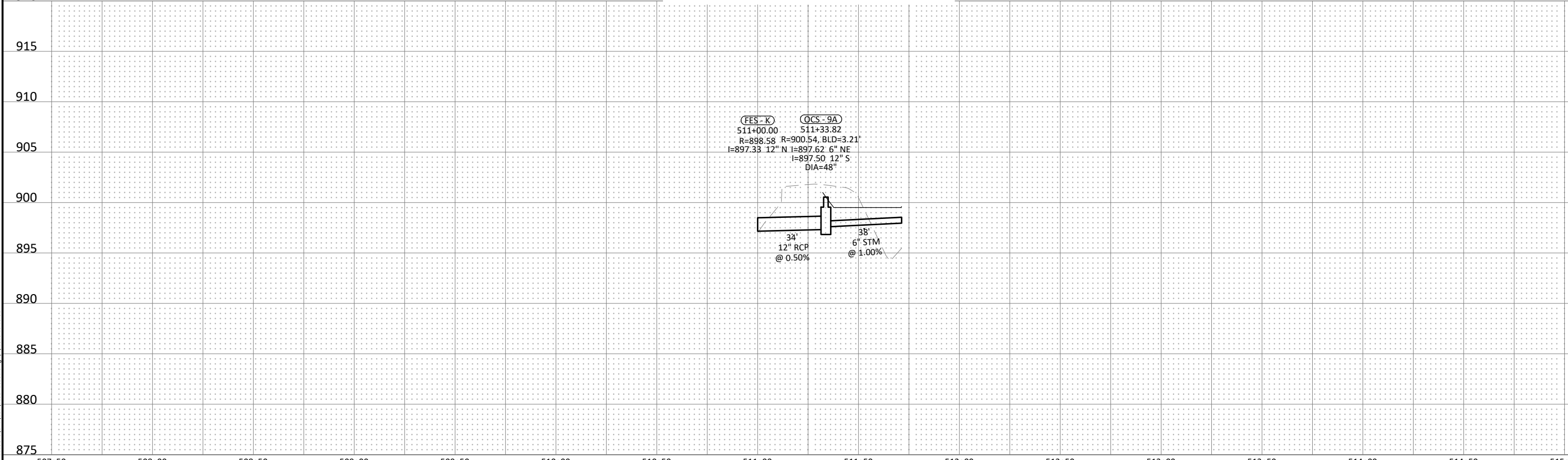








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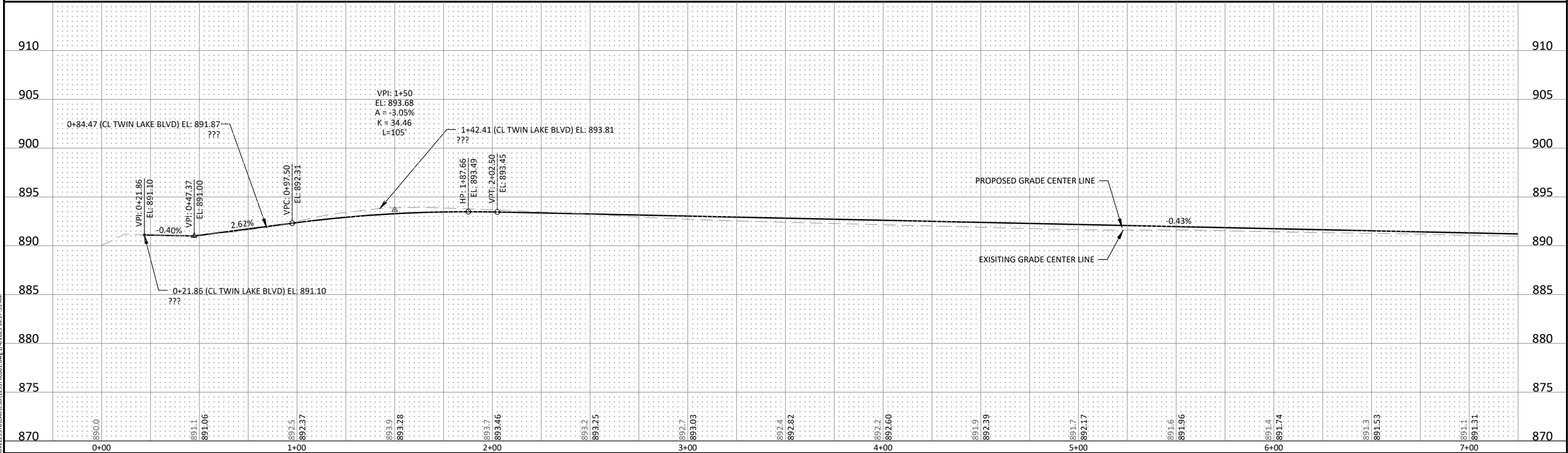
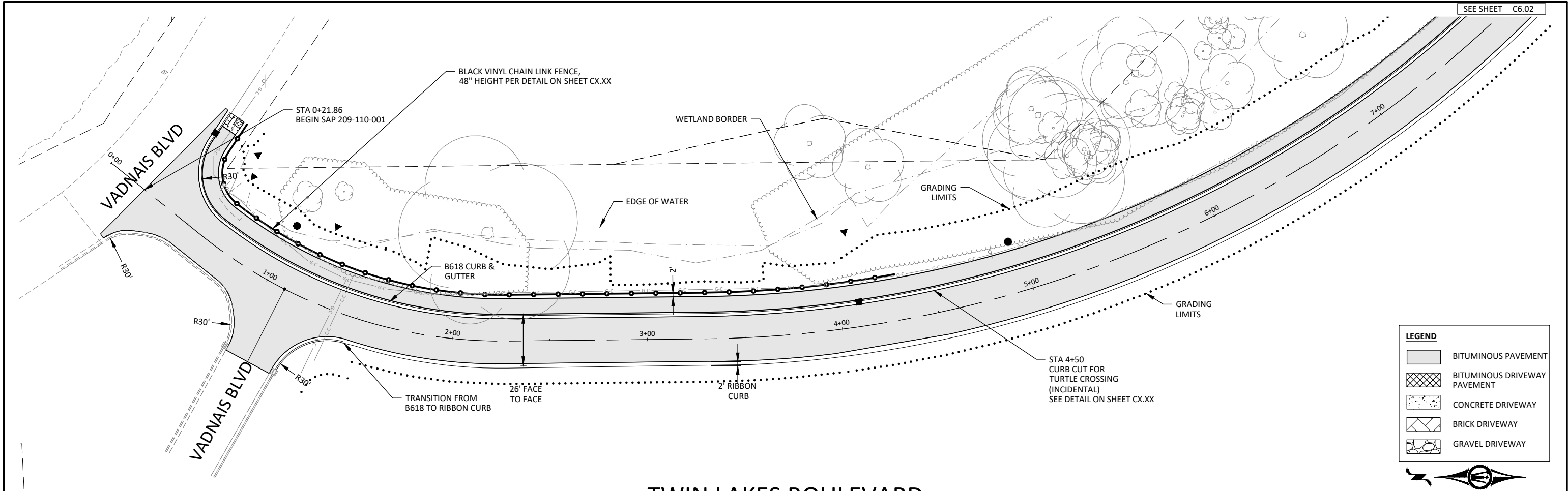
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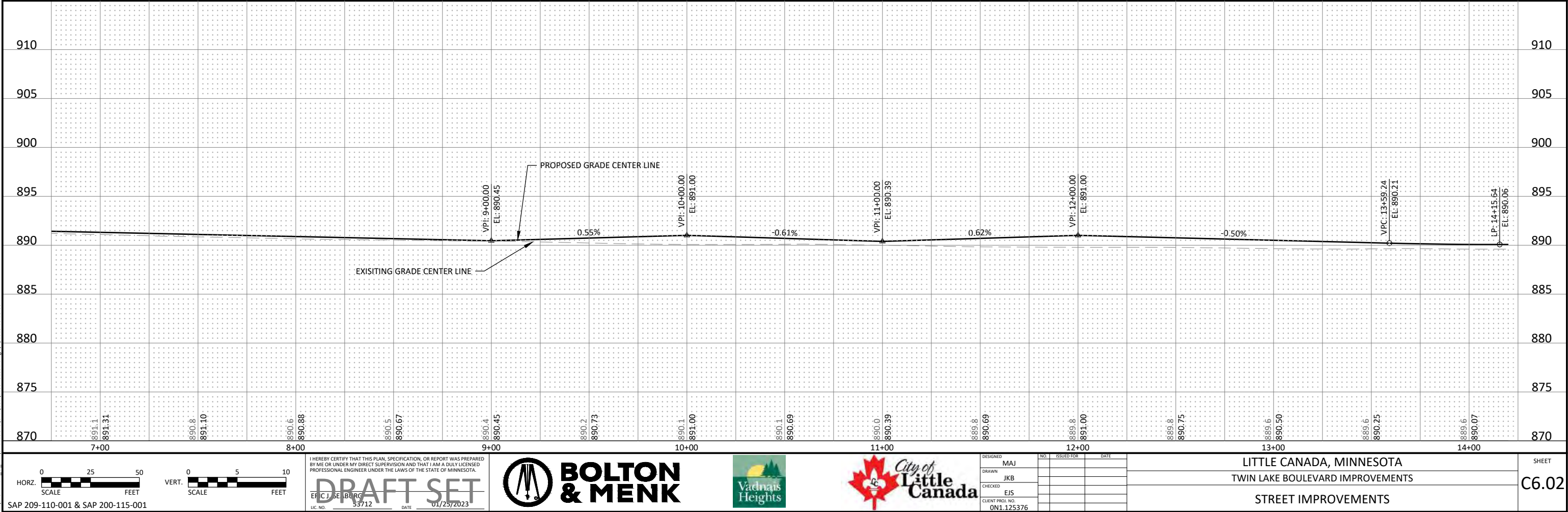
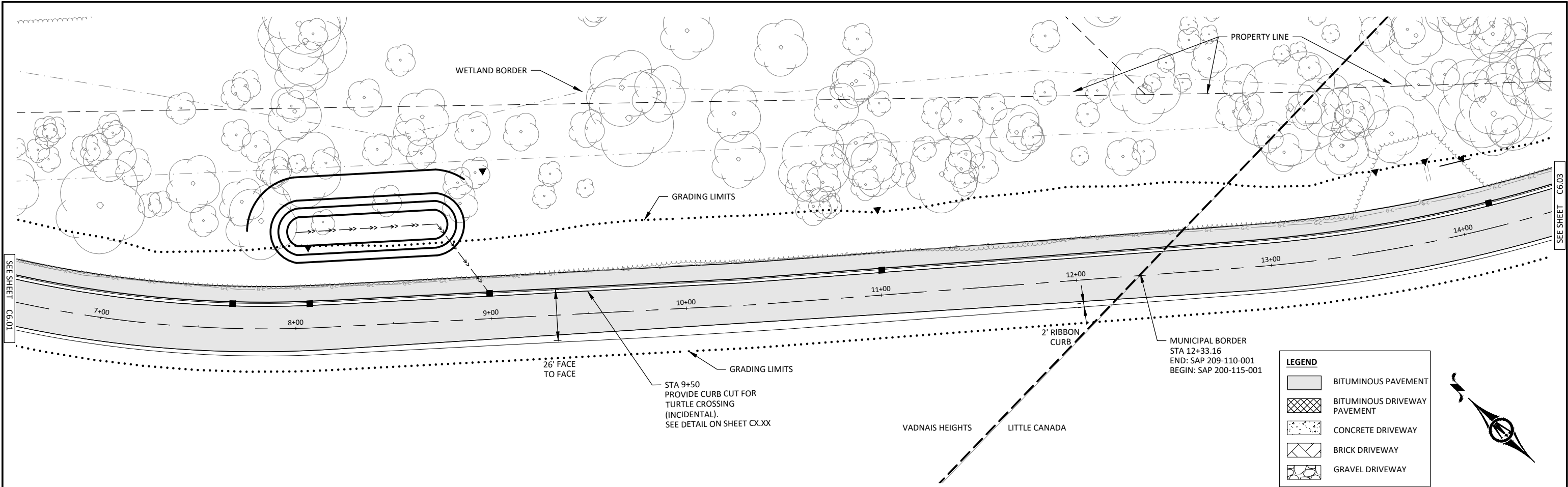
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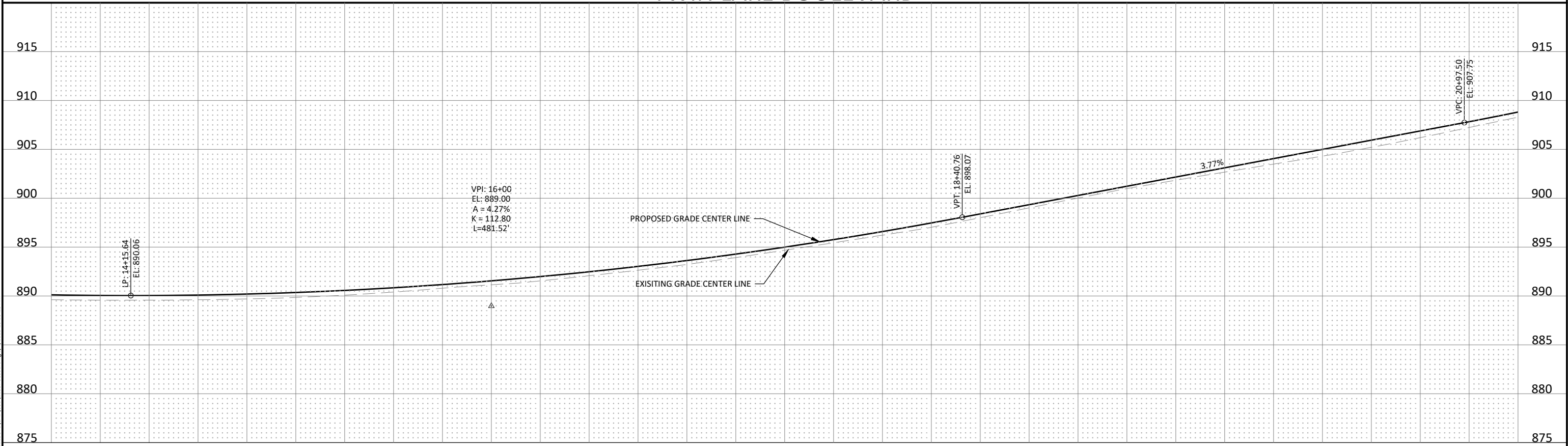
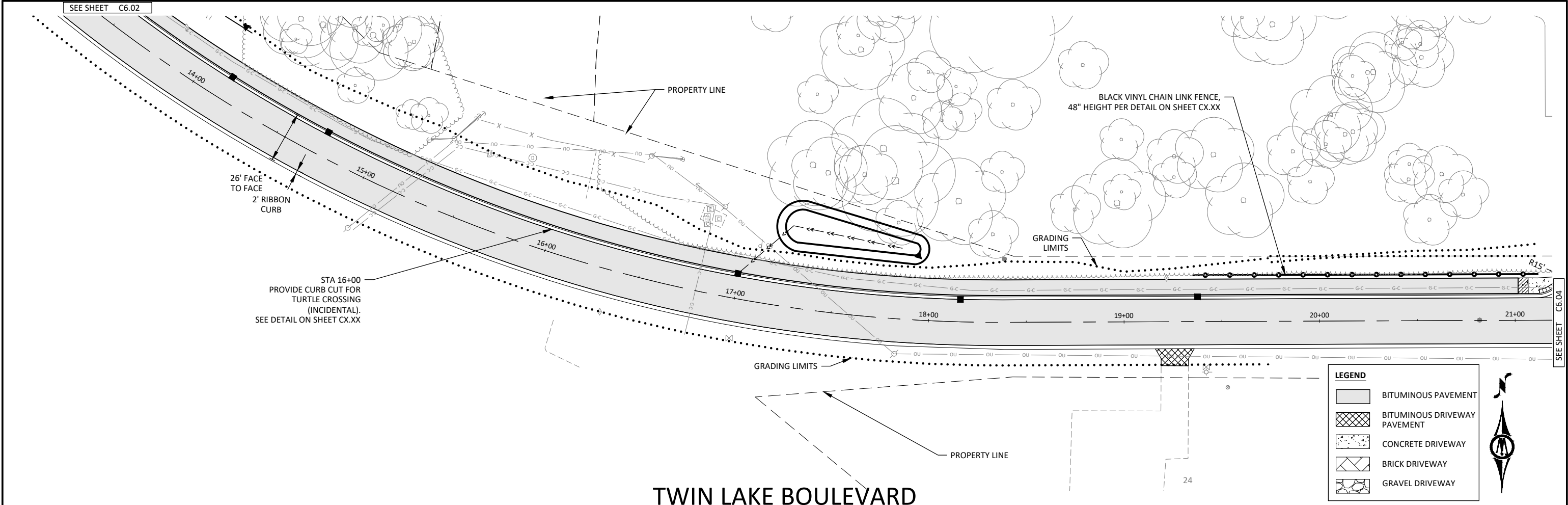
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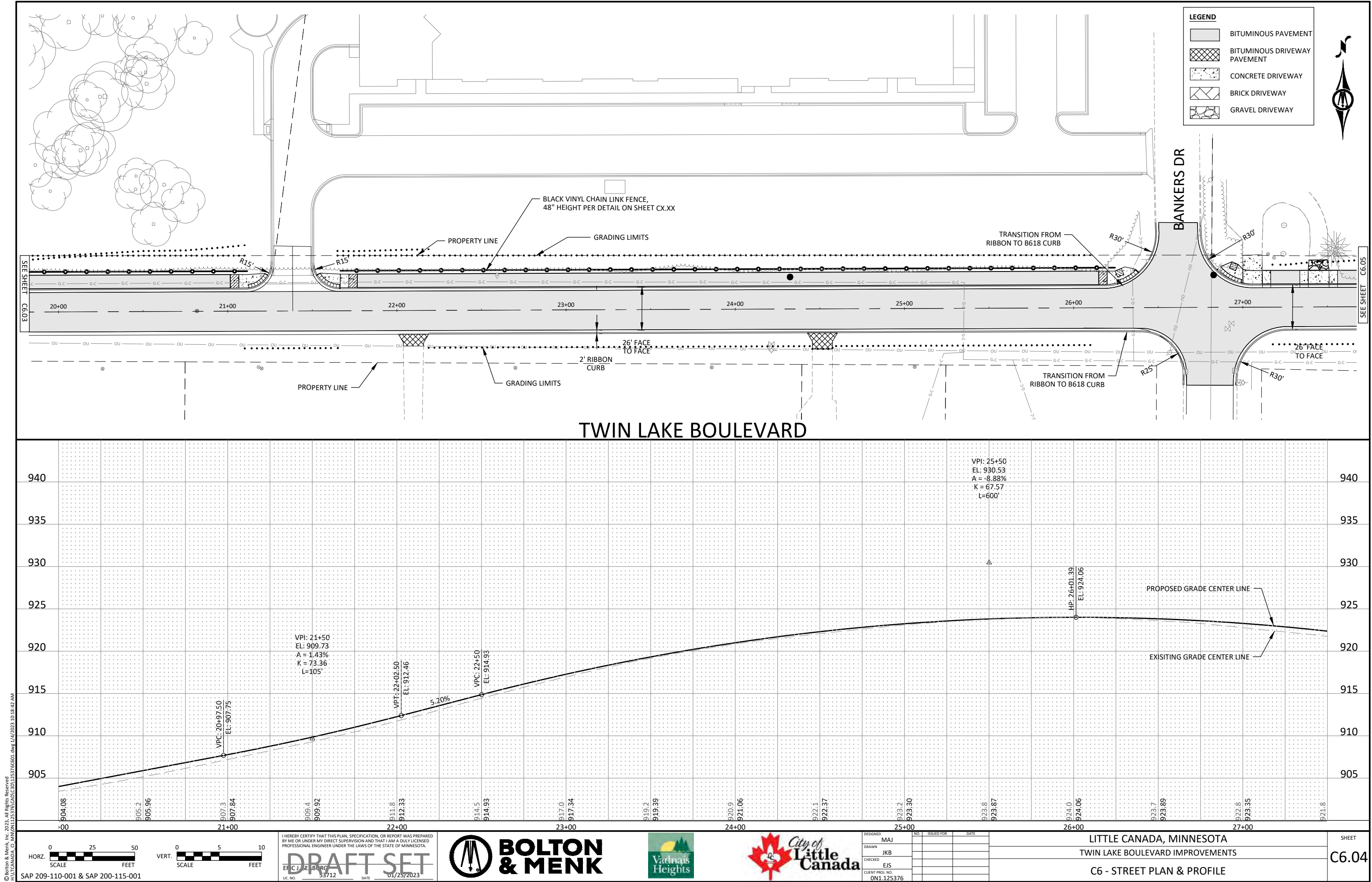
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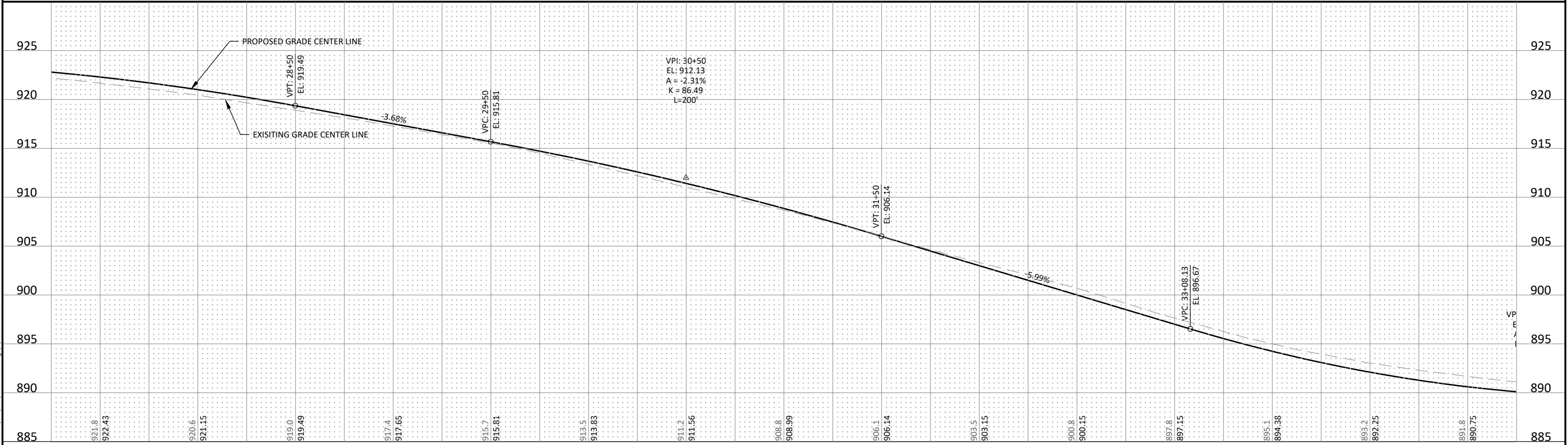
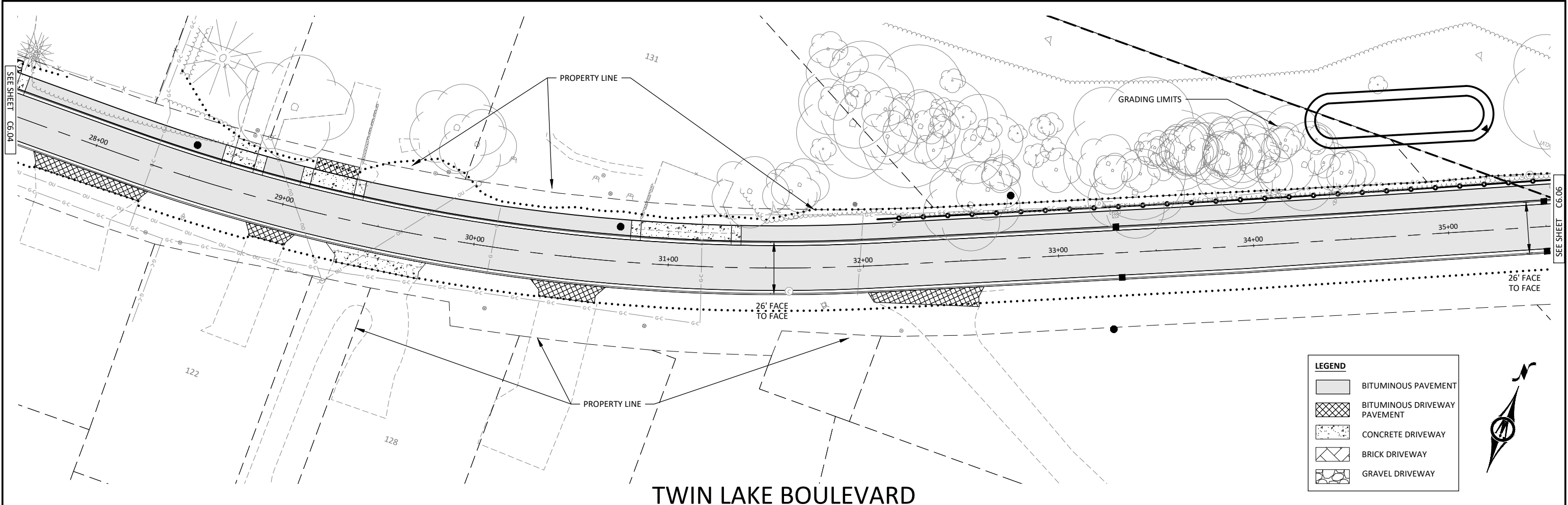












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LIC. NO. 33712

DATE 01/25/2023

**BOLTON & MENK**

Vadnais Heights

City of Little Canada

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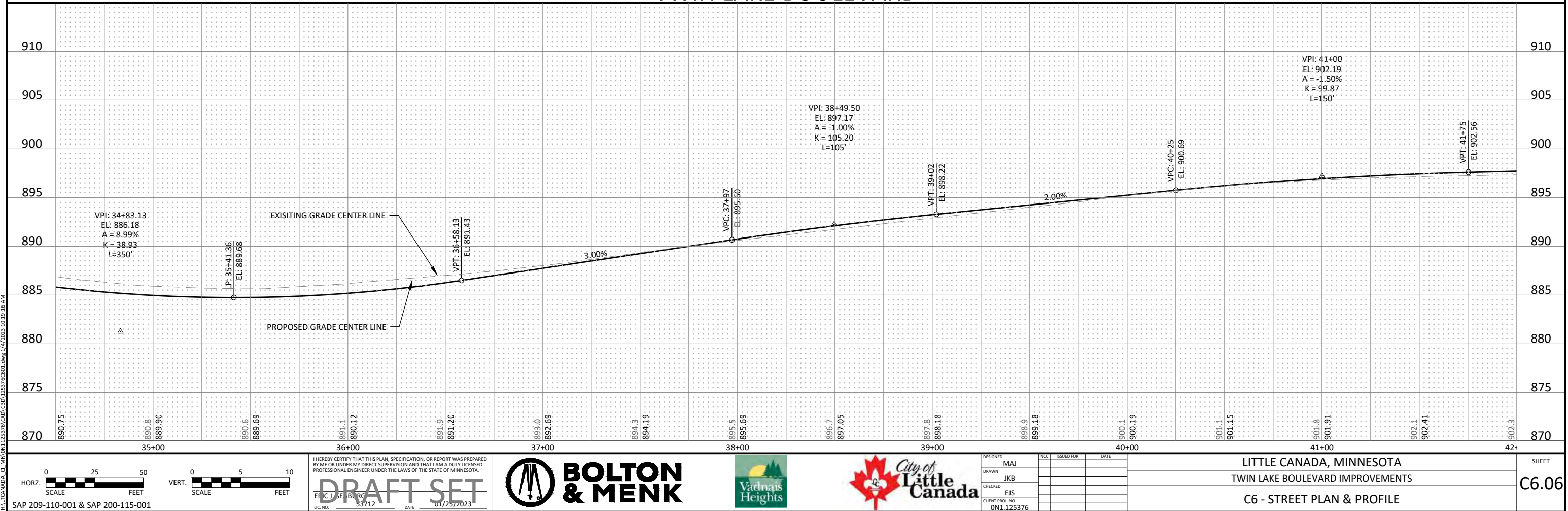
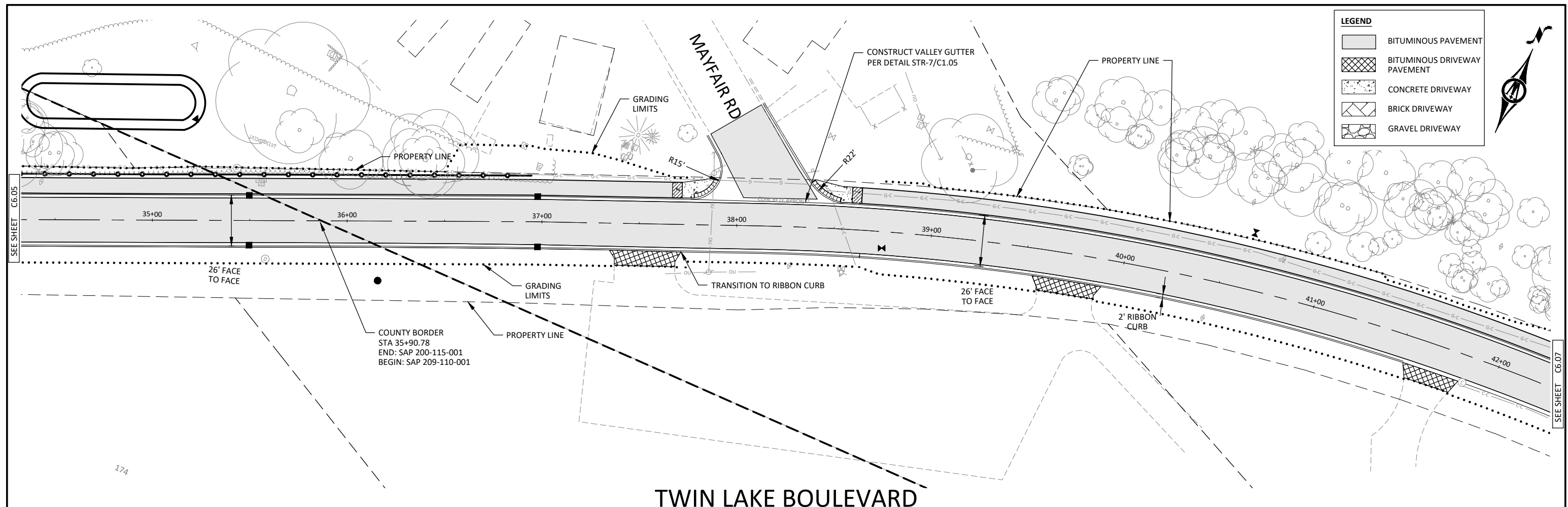
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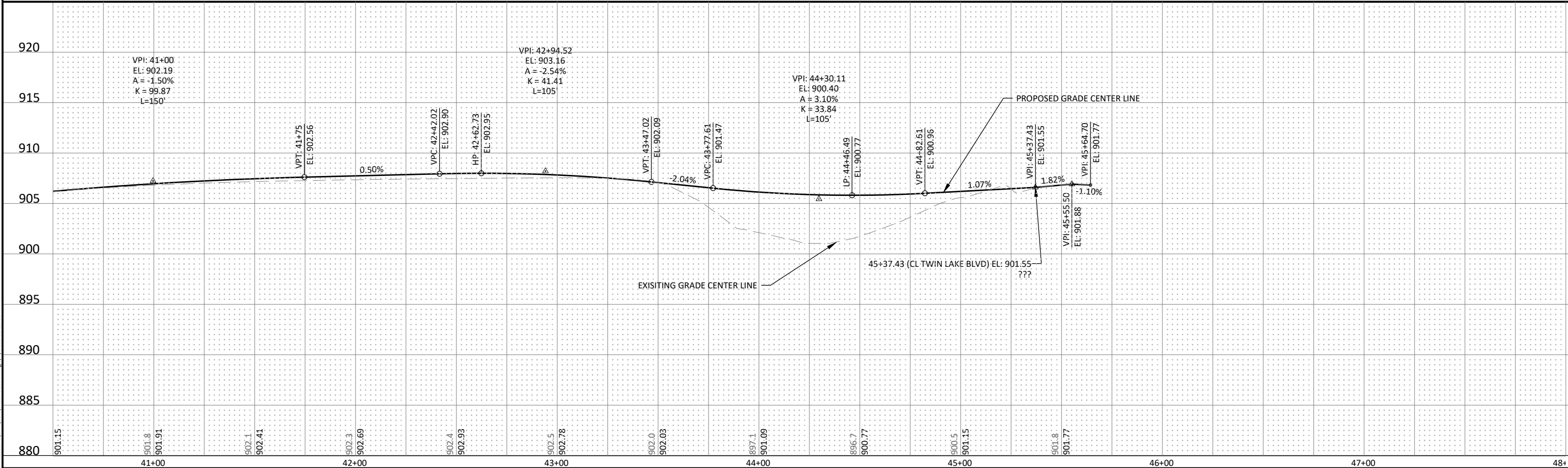
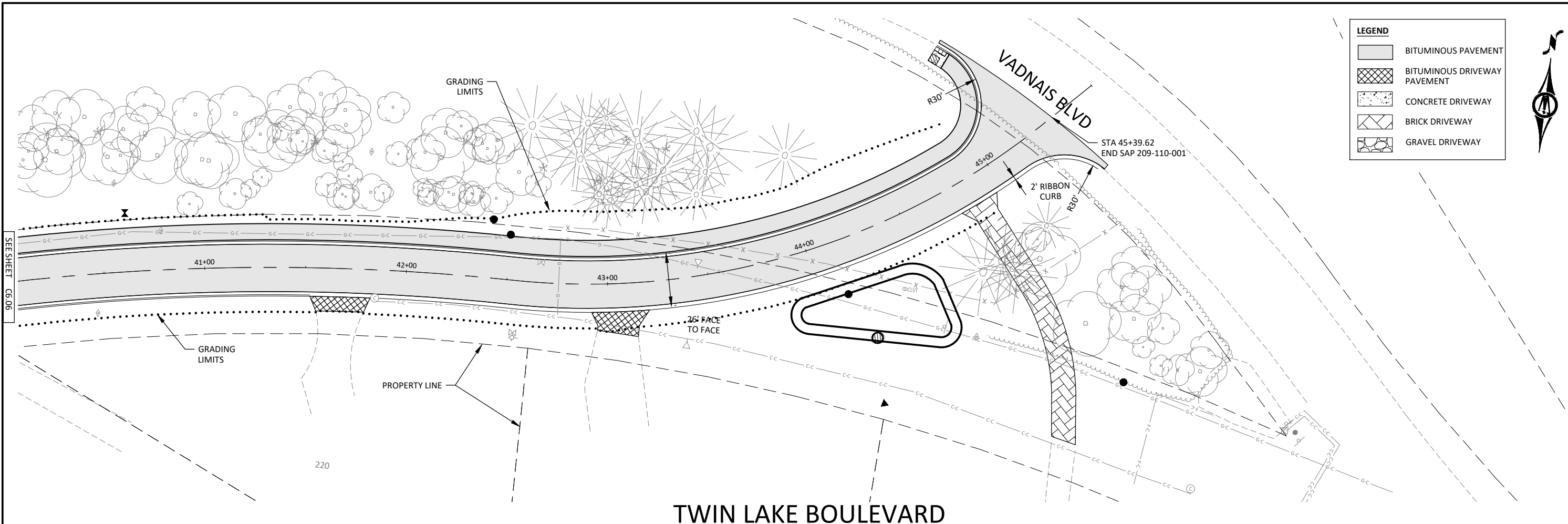
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## Minnesota Wetland Conservation Act Technical Evaluation Panel Form

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

<b>Local Government Unit:</b> Ramsey-Washington Metro Watershed District (RWMWD)	
<b>County:</b> Ramsey	
<b>Landowner/Applicant:</b> Bill Dircks (City of Little Canada) <b>Agent/Representative(s):</b> Chad Ponce (Bolton & Menk, Inc.)	
<b>Project Name:</b> Twin Lake Blvd Replacement Plan	<b>Project No. (if any):</b> 23-03 WCA
<b>Project Location:</b> Twin Lake Blvd, Little Canada	

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

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

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

<input type="checkbox"/> In-Person Meeting(s), Date(s): <input checked="" type="checkbox"/> <b>Electronic Exchanges (email, skype, etc.)</b> <input checked="" type="checkbox"/> <b>Onsite Review(s), Date(s):</b> 8/25/22 (delineation review) <input type="checkbox"/> <b>Other (specify):</b>
---

### Findings and Recommendations

<p>In preparation for an upcoming roadway construction project, the applicant submitted a wetland boundary/type application for approval on 8/1/22. A delineation review was completed on 8/25/22 with a Notice of Decision issued on 9/2/22 (#22-08 WCA).</p> <p>The applicant submitted a RWMWD grading permit application with a WCA wetland replacement plan on 1/11/23. TEP members Nicole Soderholm (RWMWD-LGU) and Ben Meyer (BWSR) reviewed the wetland replacement plan application during the associated comment period. The RWMWD Board of Managers will ultimately take action on the replacement plan application. In anticipation of some concerns/questions by the board, and as a result of TEP review of the application, please note the following comments for response:</p> <ul style="list-style-type: none"> <li>- Include additional discussion about the boardwalk alternative (pg. 6). Reasons given in the application, including “not financially feasible” and “concerns about long-term maintenance and safety” are not further explained. (ex: cost information as it relates to project budget, explanation for the concerns for maintenance and safety given the routine use of boardwalks elsewhere)</li> <li>- Include discussion about additional alternatives/minimization efforts considered, including retaining walls/fences and relocation of trail on south side of roadway.</li> <li>- While not directly related to WCA requirements, address wetland buffer rule applicability. RWMWD Rule E requires 37.5’ minimum no-disturb vegetated wetland buffer (75’ average).</li> <li>- Consider vegetation enhancements or improvements along the corridor that may help mitigate for permanent wetland and/or buffer impacts.</li> </ul> <p>Additional comments from the RWMWD Board of Managers may be submitted following their review of</p>
---

the application.

☐ Attachment(s) (specify): Year 1 and Year 2 monitoring reports

**DNR Protected Waters and Shoreland Protection Zone**

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

**Signatures**

☒ LGU TEP Member: **Nicole Soderholm**

Agree with Findings & Recommendations: ☒ Yes

☐ No

Signature: *Nicole Soderholm*

Date: 2/14/2023

☐ SWCD TEP Member:

Agree with Findings & Recommendations: ☐ Yes ☐ No

Signature:

Date:

☒ BWSR TEP Member: **Ben Meyer**

Agree with Findings & Recommendations: ☒ Yes ☐ No

Signature: *Benjamin L. Meyer*

Date: 2/13/2023

☐ DNR TEP Member:

Agree with Findings & Recommendations: ☐ Yes ☐ No

Signature:

Date:





# RAMSEY-WASHINGTON

## METRO WATERSHED DISTRICT

### MEMORANDUM

**Date:** March 1<sup>st</sup>, 2023

**To:** Board of Managers and Staff

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

**Subject:** February Enforcement Action Report

During February 2023:

<b>Number of Violations:</b>	<b>1</b>
Install/Repair Construction Entrance	1

#### Activities and Coordination Meetings:

Active permit site monitoring and inspections, permitting assistance to private developers and public entities, miscellaneous resident inquiries, Wetland Conservation Act (WCA) administration/procedures, new permit review with Barr Engineering, TAC rule change process, UMN Environmental Career Fair, MPCA Draft Construction Stormwater Permit informational session, annual performance reviews, Arcade Street project informational meeting, Snail Lake boat launch discussion, WCD Equity Workshop, Construction Installer recertification, Phalen China Garden meeting, Twin Lake Blvd WCA TEP meeting

#### Project Updates:

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

After a quiet cold winter, earthwork is picking back up again as warm temperatures hover in the month of February. Staff conducted a routine inspection on February 15<sup>th</sup> and found many items needing attention. The site had begun digging footings for two new townhomes, but doing so caused quite a muddy mess given the warm temperatures and recent mid-winter rain event. Staff noted inlet protection needed to be reinstalled, back of curb perimeter control maintained, and rock entrances utilized to prevent excess mud track-out. Staff also noted that sweeping and scraping were needed along the curbline and road within the site. Staff communicated findings to the contractor onsite and e-mailed a report that afternoon to necessary project contacts. Staff will resume regular inspections at this site now that active work has resumed.



#### **#22-31 White Bear Lake Apartments II**

Staff conducted a routine inspection on February 8<sup>th</sup> at the future apartment site off County Road E and Hoffman Road. Active work was underway, including grading and footings installation. Staff walked the site with the contractor and noted construction entrance installation and maintenance were needed, as well as perimeter control maintenance and temporary stabilization on inactive soils. Staff will continue regular inspections through the project.



#### **#22-19 796 Bielenberg Office Building (Woodbury)**

Vertical build continues at the future office building site in Woodbury. During an inspection on February 8<sup>th</sup>, staff noted that many perimeter biologs had been moved for site access, but they had not been reinstalled, and that an anti-tracking entrance was not being utilized. Staff discussed these findings with contractors onsite and emphasized the importance of maintaining these items even through winter, as we can get unexpected thaw and snow



melt events. Staff also noted silt fence buried by equipment at the NW end of the site. Contractors assured staff they would complete all action items right away.

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

None

**Permits Closed:**

None

\*\*\*\*\*

# Stewardship Grant Program

\*\*\*\*\*

# Stewardship Grant Program Budget Status Update

March 1, 2023

Homeowner	Coverage	Number of Projects: 2	Funds Allocated
Habitat Restoration and rain garden w/o hard surface drainage	50% Cost Share \$15,000 Max	1	\$860
Rain garden w/hard surface drainage, pervious pavement, green roof	75% Cost Share \$15,000 Max	1	\$10,000*
Master Water Steward Project	100% Cost Share \$15,000 Max	0	\$0
Shoreland Restoration	100% Cost Share \$15,000 Max	0	\$0

Commercial, School, Government, Church, Associations, etc.	Coverage	Number of Projects: 3	Funds Allocated
Habitat Restoration	50% Cost Share \$15,000 Max	1	\$4,065
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	1	\$61,000*
Non-Priority Area Projects	75% Cost Share \$50,000 Max	0	\$0
Public Art (\$50,000 Reserved)	50% Cost Share \$15,000 Max/Project	1	\$3,300
Aquatic Veg Harvest/LVMP Development	50% Cost Share \$15,000 Max	0	\$0
Enhanced Street Sweeping (\$128,000 Reserved)	Grant Recipients and Amounts to be Set at Future Meeting	0	\$0

Maintenance	50% Cost Share \$7,500 Max for 5 Years	63	\$43,500
Consultant Fees			\$2,760
<b>Total Allocated</b>			<b>\$125,485</b>

\*includes funds to be approved at the March 1, 2023 board meeting.

2023 Stewardship Grant Program Budget	
Budget	\$1,128,000
Total Funds Allocated	\$125,485
<b>Total Available Funds</b>	<b>\$1,002,515</b>

\* \* \* \* \*

# Action Items

\* \* \* \* \*

# Request for Board Action

---

**Board Meeting Date:** March 1, 2023

**Agenda Item No:** 9A

**Preparer:** Tina Carstens, Administrator

---

**Item Description:** Board of Managers 2023 Annual Meeting

---

## **Background:**

The following is official business for the board to take action on at this annual meeting:

### **1. Elections of Officers**

The board must select a president, vice president, treasurer, and secretary. The current officers are as follows:

<b>President</b>	Open (past board member Larry Swope)
<b>Vice President</b>	Open (past board member Dianne Ward)
<b>Treasurer</b>	Val Eisele
<b>Secretary</b>	Pam Skinner

The **President** will serve as the chairperson for all meetings, be a signatory to the District's account, and sign contracts or correspondence as approved by the board. The president will always have full voting privileges and does not need to confine their voting to break ties of the managers. The president may also work with the administrator to develop monthly meeting agendas.

The **Vice President** will perform the President's duties in the event of an absence. The Vice President is also responsible for being the personnel representative of the board. This means that the Vice President would coordinate the Administrator's review and consult with the Administrator on possible personnel issues.

The **Treasurer** will be a signatory on District accounts and sign the monthly checks at each month's board meeting. The duties of preparing the monthly reports of records to describe the financial condition of the District and arranging for an annual audit are delegated to district staff.

The **Secretary** will ensure meeting minutes are prepared and approved by the board and sign documents requiring multiple signatures. The preparation and distribution of the meeting minutes and proper meeting notice posting is delegated to district staff.

**Staff recommendation is for the board to elect its president, vice president, treasurer, and secretary for 2023.**



## **2. Liaisons to the CAC and Minnesota Watersheds**

All board members are invited to attend the Community Advisory Committee meetings and events held by Minnesota Watersheds and the Metro Watersheds association meetings. That being said, it is nice to have a board member designated as the liaison to these two groups and then can bring back information to the whole board. The liaisons can also bring board directives back to those groups as well.

**Staff recommends the board select liaisons to the District's Community Advisory Committee and the Minnesota and Metro Watersheds association.**

## **3. Consulting Staff Selection**

This is the in-between year where the District is not required to public notice a proposal solicitation for our consultant staff. It is required that these consulting positions be approved by the board each year. Staff does not recommend any changes in these selections. The following are the current appointments:

<b>Engineer:</b>	Barr Engineering
<b>Attorney:</b>	Galowitz Olson
<b>Accountant:</b>	Redpath and Company

**Staff recommendation is to appoint Barr Engineering, Galowitz Olson, and Redpath and Company to continue as the consultants for 2023.**

## **4. Official Designations**

A final item of business is to designate the District's official newspapers and banking institution. Current appointments for each of these items are as follows:

**Official Bank of Deposit:** 4M Fund with League of Minnesota Cities: US Bank

**Official Newspapers:** St. Paul Pioneer Press

**Staff recommendation is to approve the 4M Fund with LMC: US Bank as our Official Bank of Deposit and the St. Paul Pioneer Press as our Official Newspaper for 2023.**

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

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

**Action Item:** Follow all legal requirements applicable to watershed districts.

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### **Staff Recommendation:**

Staff recommends appointing the consulting staff, official bank of deposit and official newspapers as shown above.

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**Financial Implications:**

None

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**Board Action Requested:**

Appoint Board officers and liaisons to committees and designate the desired consulting staff, official bank of deposit, and official newspapers.

\*\*\*\*\*

# New Reports/ Presentations

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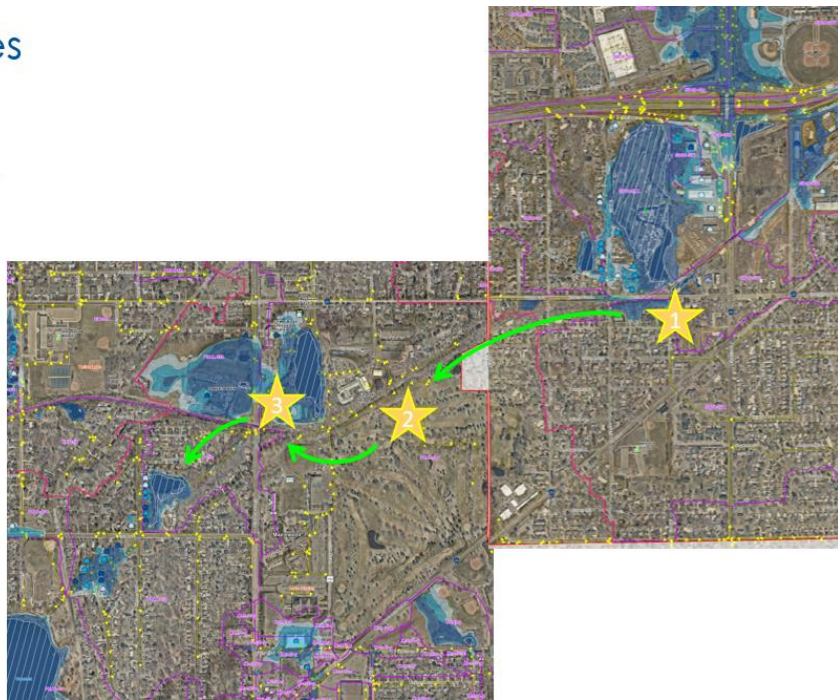
## Memorandum

**To:** Ramsey-Washington Metro Watershed District (RWMWD) Board of Managers  
**From:** Parker Brown, Lulu Fang, and Brandon Barnes  
**Subject:** Kohlman Creek Wakefield Diversion Feasibility Study Update  
**Date:** February 20, 2023  
**Project:** 23/62-1200.22- 006  
**c:** Tina Carstens, RWMWD Administrator

The purpose of the Kohlman Creek to Wakefield Lake Diversion study was to evaluate the feasibility of a regional stormwater project that would divert high flows (that currently flow to the North St. Paul Urban Ecology Center) westward toward (and through) the Goodrich Golf Course, and ultimately to Wakefield Lake as shown in Figure 1. The goal of the project was to reduce flood-risk at seventeen homes and five City of Maplewood buildings, by removing the buildings from the 100-year floodplain. However, during initial tasks of the feasibility study, constraints were identified which resulted in higher than anticipated construction costs and differences in the water quality data between the stormwater in Kohlman Creek and receiving water body (Wakefield Lake). Given the constraints discovered, a regional stormwater project does not appear feasible. The following sections briefly describe constraints identified during the feasibility study and recommendations for next steps.

### Project objectives

1. Divert portion of high flows
2. Stormwater storage
3. Discharge to County Ditch 17



**Figure 1. Conceptual Schematic of Diversion from Kohlman Creek to Wakefield Lake**

## **Project Constraints Identified During Feasibility Study**

The feasibility study began in January 2022 and was planned to continue through 2023. In 2022 work included collection of survey information, utility data, stakeholder coordination, and collection of water quality information.

During initial tasks constraints were identified which limited the number of buildings that could be removed from the 100-year floodplain without causing downstream impacts, higher than anticipated construction costs, or adverse impacts to water quality in downstream receiving water bodies. The following is a brief summary of constraints identified.

**Utility Conflicts and available right-of-way** – Several alignments from Kohlman Creek to Goodrich Golf Course were identified (convey stormwater from location 1 to location 2 in Figure 1). Utility conflicts and available public right-of-way limited the feasible alignments. The most feasible alignment identified included a new storm sewer along Burke Avenue between 5<sup>th</sup> Street North and Goodrich Golf Course, which would require deep temporary excavations to install a gravity diversion.

**Storage within Goodrich Golf Course** – Initial concepts for storing stormwater in Goodrich Golf Course (see location 2 in Figure 1) considered modifications to existing basins and distributing the storage volume throughout the course. However, when the District's stormwater model was updated, simulation results indicated that stormwater storage in the northern half of the golf course was required to mitigate downstream impacts. This resulted in more excavation in the northern portion of the golf course than anticipated in order to prevent downstream impacts. Concentrating storage volume in the northern portion of the golf course required a portion of storage volume to be underground to minimize site impacts and increasing the difficulty of the course.

**Differences in Water Quality** - Wakefield Lake, the proposed downstream recipient of the diverted water, is currently on the MPCA's Impaired Waters List for excess nutrients, so it is important to consider flood risk reduction options that would also provide a water quality benefit to Wakefield Lake.

RWMWD staff monitored water quality at the approximate diversion location during 2022. Results from the monitoring period indicate that total phosphorus (TP) concentrations vary from 400 to 1,200 ug/L. Wakefield Lake had an average TP concentration of 43.6 ug/L, 10 to 30 times less than those measured at the proposed diversion location. It is important to note that Wakefield in lake concentrations will be inherently lower than storm runoff, so while this allows for a relative comparison, the concentrations are not directly comparable. In 2017, a Total Maximum Daily Load (TMDL) study was completed for Wakefield Lake. As part of the study, a P8 model was developed to determine loading to Wakefield Lake. Results from the P8 model suggest that storm concentrations into Wakefield Lake vary from 37-415 ug/L, with an average concentration of 223 ug/L. The P8 simulated concentrations are directly comparable to the concentrations measured by RWMWD during the summer of 2022, which was 2 to 5 times higher than the P8 modeled storm concentrations. Given the measured data is much higher than Wakefield Lake in lake

concentrations and modeled storm concentrations, the diversion could negatively impact the water quality of Wakefield Lake.

**Table 1. Total Phosphorus Concentrations**

Total Phosphorus Concentrations Measured by RWMWD Staff in 2022	Wakefield Lake Average TP Concentration <sup>1</sup>	Simulated P8 Total Phosphorus Concentrations from TMDL Study <sup>2</sup>
(ug/L)	(ug/L)	(ug/L)
400-1,200	43.6 (2021) 96 (10-year average)	37-415 (average was 223)

<sup>1</sup> Source: <https://www.pca.state.mn.us/sites/default/files/wq-iw8-54e.pdf>

<sup>2</sup> Source: RWMWD 2021 Water Monitoring Annual Report

Given constraints related to utility impacts, available right-of-way, type of diversion (i.e., diverting stormwater in a pipe instead of an open channel), and location of storage within Goodrich Golf Course, the District stormwater model indicated that one structure could be removed from the 100-year floodplain without increasing peak 100-year water surface elevations downstream of Goodrich Golf Course. However, the estimated construction cost for the diversion, stormwater storage areas in Goodrich Golf Course, and outlet to Wakefield Lake is estimated to exceed \$12 million dollars, which does not include water quality BMPs necessary to mitigate impacts to the water quality in downstream receiving water bodies.

### Recommendation

Considering the limited benefit (i.e., only one home is removed from the 100-year floodplain), high estimated construction cost (over \$12 million), and potential for adverse water quality impacts in Wakefield Lake, staff recommend the following:

1. Do not proceed with further evaluation of a stormwater diversion from Kohlman Creek to Wakefield Lake. Rather focus on more cost-effective flood-risk reduction projects along Kohlman Creek, including those identified near PCU Pond and west of White Bear Avenue.
2. Continue to work with the City of North Saint Paul to identify feasible flood-risk reduction options for buildings near the North St. Paul Urban Ecology Center.



## Technical Memorandum

**To:** Ramsey-Washington Metro Watershed District (RWMWD) Board of Managers  
**From:** Sam Redinger, Lulu Fang, Brandon Barnes, Erin Anderson Wenz, and Brad Lindaman  
**Subject:** Owasso Basin and North Star Estates Flood-Risk-Reduction Study Update  
**Date:** January 20, 2023  
**Project:** 23/62-1200.22 – 005  
**c:** Tina Carstens, RWMWD administrator

This technical memorandum summarizes Barr's recent efforts to lower 100-year water-surface elevations at habitable structures in the Gervais Creek subwatershed. These efforts are based on the findings and recommendations provided to the RWMWD in the Beltline Resiliency Study (Barr, 2019), the Owasso Basin Bypass Pipeline Feasibility Study (Barr, 2020), and the Owasso Basin and North Star Estates Flood-Risk-Reduction Study update (Barr, 2022). The purpose of the document is to:

- Update the RWMWD Board of Managers on recent work (since May 2022), including a bathymetric survey of Owasso Basin, field visits, an evaluation of concept design alternatives, and communication with project stakeholders.
- Provide the results of recent findings.
- Help the managers understand the scope and magnitude of a future project necessary to meet the manager-adopted design criteria for reducing flood risk in this area to select an alternative to refine the feasibility study and transition into preliminary design of those improvements

### 1.0 Background

The Owasso Basin Bypass Pipeline Feasibility Study, completed in 2020, provided a phased approach for reducing flood risk in and around Owasso Basin and North Star Estates in the City of Little Canada. In 2021, the RWMWD finished raising Ryan Drive, storm sewer modifications, maintenance along Gervais Creek and the Owasso berm, and drainage improvement at Keller Parkway (Phases 1 and 2 of the implementation strategy). Completion of these phases yielded a tangible reduction in flood risk in the Gervais Creek subwatershed, particularly for structures upstream of Keller Parkway and around Owasso Basin. The infrastructure critical to providing additional hydraulic capacity in the Gervais Creek subwatershed is now in place and, based on model results, approximately 34 homes within North Star Estates, three businesses north of Ryan Drive, and four homes immediately upstream of Keller Parkway have been removed from the 100-year inundation extent.

In May 2022, Barr, District, and City of Little Canada staff met to review flood-risk-reduction efforts in and around Owasso Basin—specifically the approach toward reducing flood risk for manufactured homes within North Star Estates. These homes are constructed differently than typical single-family dwellings. Barr subsequently drafted a technical memorandum summarizing FEMA-documented guidance and City

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feedback, presented to the Board of Managers at the June 2022 meeting. The following list summarizes the resulting recommendations and the manager-adopted basis for evaluating flood risk in North Star Estates:

- Evaluate flood risk for the homes in North Star Estates relative to the FEMA-recommended BFE (i.e., distance from the ground to the underside of the structure chassis support system)
- Confirm that access for emergency-response vehicles and personnel is provided to impacted homes (i.e., benchmark elevation of flood water depth less than or equal to 12 inches above the access roadway surface and flood water depth less than or equal to 6 inches above the access path to the dwelling)
- Develop emergency response plans for homes [and businesses] within the 100-year floodplain in and around Owasso Basin

This technical memorandum summarizes the results of the flood-risk-reduction alternatives that meet the criteria above and provides the framework for Phase 3 of the implementation strategy outlined in the 2020 feasibility study memo. Additional background information supporting the basis for these alternatives is provided in the following sections.

## **1.1 Owasso Basin Survey**

The storage capacity of Owasso Basin significantly impacts the 100-year inundation extents. Barr staff performed a detailed survey of the existing grade along the edge of Owasso Basin and a bathymetry survey of the pond bottom in August 2022. The results of this survey, illustrated in Figure 1-1, indicate that sediment accumulation has been occurring across the bottom of the basin, reducing its dead storage capacity. This updated surface information has been integrated into the base maps and design files used in this analysis.



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Owasso Basin Survey Contours

- 5-Foot Contour
- 1-Foot Contour
- Municipal Boundary

Figure 1-1

August 2022 Owasso Basin Survey

Ramsey-Washington Metro Watershed

0 100 200

1 inch = 100 feet

RAMSEY-WASHINGTON METRO WATERSHED DISTRICT



**To:** Ramsey-Washington Metro Watershed District (RWMWD) Board of Managers  
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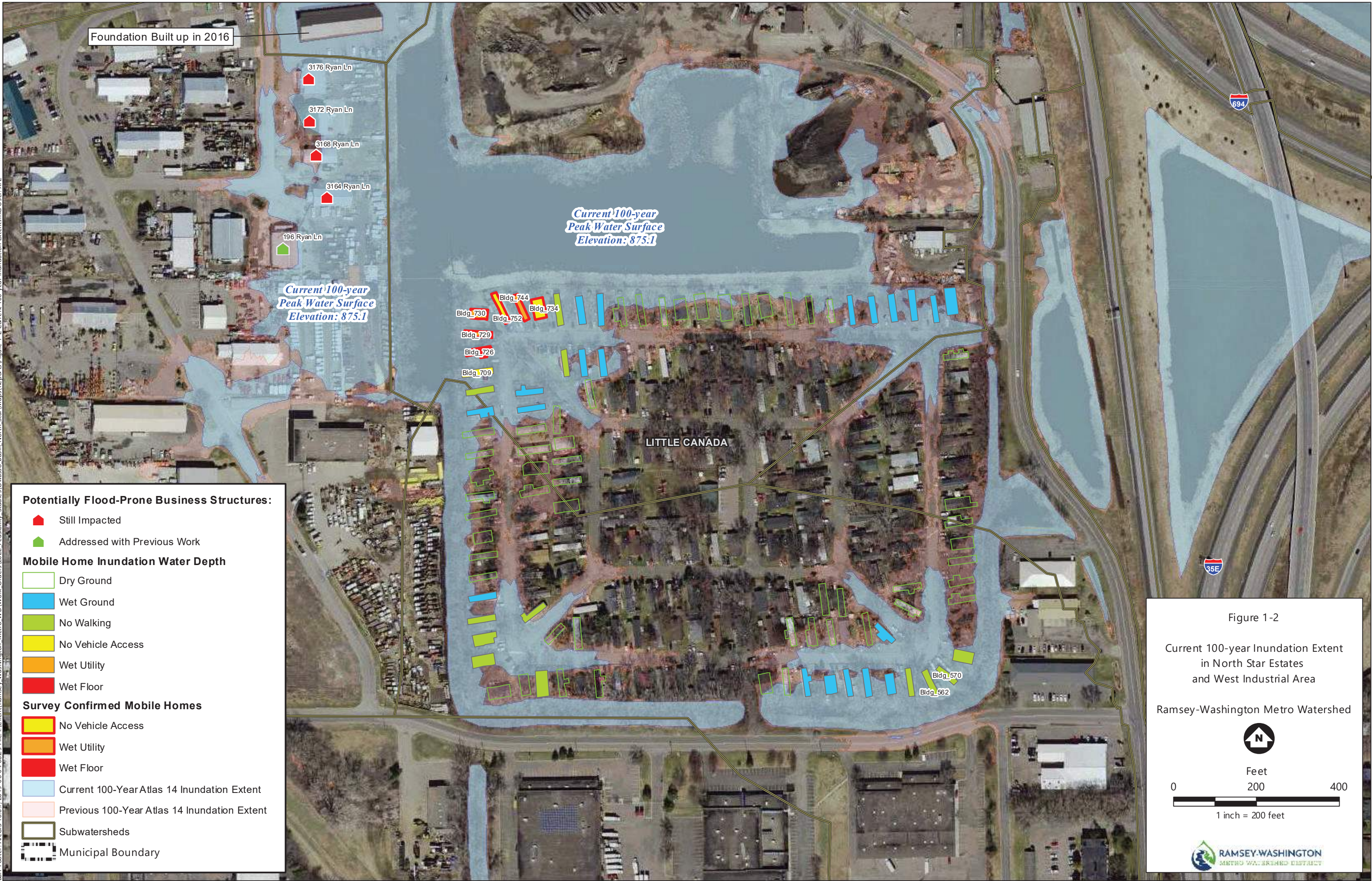
## **1.2 Current 100-Year, 96-Hour Storm Event Inundation Extents**

The current 100-year, 96-hour storm event water-surface elevation under model conditions is 875.1 feet. This is approximately 10 inches lower than the modeled water-surface elevation of 875.9 before the implementation of Phases 1 and 2.

Figure 1-2 illustrates the current inundation extents under model conditions. Colored polygons show the homes and businesses still within the inundation extents. Four businesses along the western edge of Owasso Basin remain at risk of flooding under model conditions. Except for one home in North Star Estates that is especially low, all homes are clear of floodwaters from the building. However, as discussed in the May 2022 technical memorandum, flood risk remains for these homes (e.g., inundated utility terminals, restricted emergency personnel access, etc.).



Barr, Footer, ArcGIS 10.6.1, 2019-06-04 08:29 File I:\Client\Ramsey Washington Metro WD\Work Orders\2022\_Feasibility\_Studies\Owasso Basin North Star Maps\Reports\Figure 1-2 Current 100-year Inundation Extent.mxd User: XE2





### 1.3 Summary of Home and Business Low-Entry Elevations

As mentioned in the May 2022 technical memorandum, a sample set of 9 homes in North Star Estates was surveyed by Little Canada in late 2021. The purpose was to improve assumptions regarding the relationship between a home's low-entry elevation (elevation at which flood waters enter the habitable dwelling or structure) and flood water-surface elevation. Table 1-1 summarizes the surveyed low-entry elevations of these 9 homes.

**Table 1-1 Lowest Home Survey in North Star Estates**

Building ID	Surveyed Low-Entry Elevation
Bldg_562	877.55
Bldg_570	877.26
Bldg_709	876.99
Bldg_734	876.51
Bldg_752	876.17
Bldg_729	875.82
Bldg_744	875.79
Bldg_730	875.46
Bldg_726	874.05

One home (building ID Bldg\_726) is 1.41-feet lower than the next lowest home. Implementing a regional flood-risk-reduction project on a scale needed to mitigate the risk for this single dwelling was considered to be cost-prohibitive compared to other alternatives. The second-lowest home (building ID Bldg\_730) provides the basis for establishing the targeted water-surface elevation discussed in Section 2.0. Barr also performed a low-entry elevation survey of the businesses identified at risk of flooding under model conditions along the western edge of Owasso Basin. Table 1-2 provides the results of this survey. The implementation of Phases 1 and 2 has removed the business at 196 Ryan Lane from the modeled inundation extents. However, four other businesses remain, with the lowest low-entry elevation approximately 2 feet lower than the current 100-year water-surface elevation under model conditions. One business, 3164 Ryan Lane, is currently listed for sale.

**Table 1-2 Business Building Low-Entry Elevation Survey**

Address	Surveyed Elevation
196 Ryan Ln	875.46
3168 Ryan Ln	874.67
3172 Ryan Ln	874.05
3164 Ryan Ln	873.73
3176 Ryan Ln	873.07



## 2.0 Basis of Analysis and Limitations

Incorporating the Manager-adopted criteria to determine the level of flood-risk reduction in North Star Estates, the targeted water-surface elevation for the 100-year, 96-hour storm in and around Owasso Basin is 874.63. This meets the FEMA-recommended base flood elevation (BFE) of the flood water outlined in the May 2022 technical memorandum and is based on the surveyed elevation of the second-lowest home in North Star Estates. Using this elevation as the benchmark, the targeted roadway surface elevation to facilitate emergency vehicle and personnel access is 873.63 (12 inches or less of surface water over the roadway surface). The targeted access elevation to facilitate emergency personnel pedestrian access to inundated homes is 874.13 (6-inches or less of surface water over walking access).

The system modifications evaluated to reduce flood risk for homes and businesses in the Gervais Creek subwatershed present options for RWMWD consideration. However, as with any study and model of natural systems, there are limitations, including practical limits on the level of engineering detail used to achieve the study objectives. Acknowledging study limitations is important so that the findings and recommendations can be used with professional judgment to develop recommendations consistent with the study's intent. Understanding the limitations also makes it easier to build on the results of this study in future project stages as further site investigations, surveys, and engineering design are needed to develop construction documents.

Major assumptions for this study are listed below.

- Possible system modifications presented are intended to demonstrate possible options for mitigating flood risk. Other options may be considered to reduce flood risk during future project development (e.g., final design).
- Utility terminal connections for manufactured homes are at the bottom of the manufactured home chassis support system, approximately 10 inches beneath the finished floor elevation of the structure.
- The local storm sewer infrastructure to be installed/constructed as part of the ongoing development of the property in the northwest corner of Spruce Street and S. Owasso Blvd. will be directed south toward Gervais Creek, south of S. Owasso Blvd. It will not drain into the Owasso Basin.
- Model conditions used in this study do not account for possible changes to upstream flow rates; it is assumed that the contributing flow rate and volume from upstream watersheds into the Gervais Creek subwatershed do not change.
- The system modifications described will require permits and approvals from cities or agencies. Many of the concepts described will require voluntary public and/or private entity cooperation. Final permit requirements and/or public opposition may change the configuration or function of system modifications.

- The RWMWD XP-SWMM stormwater model used in this feasibility study was developed and calibrated for District-managed lakes, creeks, and facilities. As a result, each city may identify separate, localized flooding areas not discussed in this report. The RWMWD should continue to work cooperatively with the cities to address localized flooding concerns and manage inflows to District water bodies.
- Datasets used for model development or information received from third parties are not always complete or error-free. In general, the RWMWD stormwater model and existing-conditions base map for this project were developed using a combination of the following:
  - Survey information
  - As-built plans
  - Light detection and ranging (LiDAR) information
  - Publicly accessible GIS information and/or GIS information provided by municipalities and other public agencies within the District

The system modifications may change as the cities and public agencies collect or provide additional information.

- Barr's observations, opinions, recommendations, and analyses are based on the limited information available to or obtained by us at the time of this report. While additional data and other considerations may exist, they have not yet been incorporated into our considerations. As the project advances and additional information is uncovered by or made available to us, the recommendations provided may be altered.
- Opinions of cost (OPC) are intended to be used as a supplemental assessment factor in evaluating and comparing the various options or alternatives. The OPCs were developed for comparative purposes only, using information from similar projects and Barr's experience and qualifications. The OPC represents Barr's best judgment as experienced and qualified professionals familiar with the project, based on project-related information available at this time, available cost information from other projects, and the feasibility-level design completed for the different modifications.

### 3.0 Alternatives Analysis

Barr developed and evaluated various infrastructure alternatives to mitigate and/or reduce the flood risk for the impacted structures around Owasso Basin to meet the adopted design criteria. The individual components included in the analysis are summarized below:

- Adding flood-storage capacity to Owasso Basin through dredging of the basin footprint
- Conducting site grading to construct a diversion ditch that would reroute surface flows west of Spruce Street to Gervais Creek, downstream of S. Owasso Blvd., and bypass Owasso Basin
- Modifying a hydraulic structure (i.e., culvert) to increase flow conveyance

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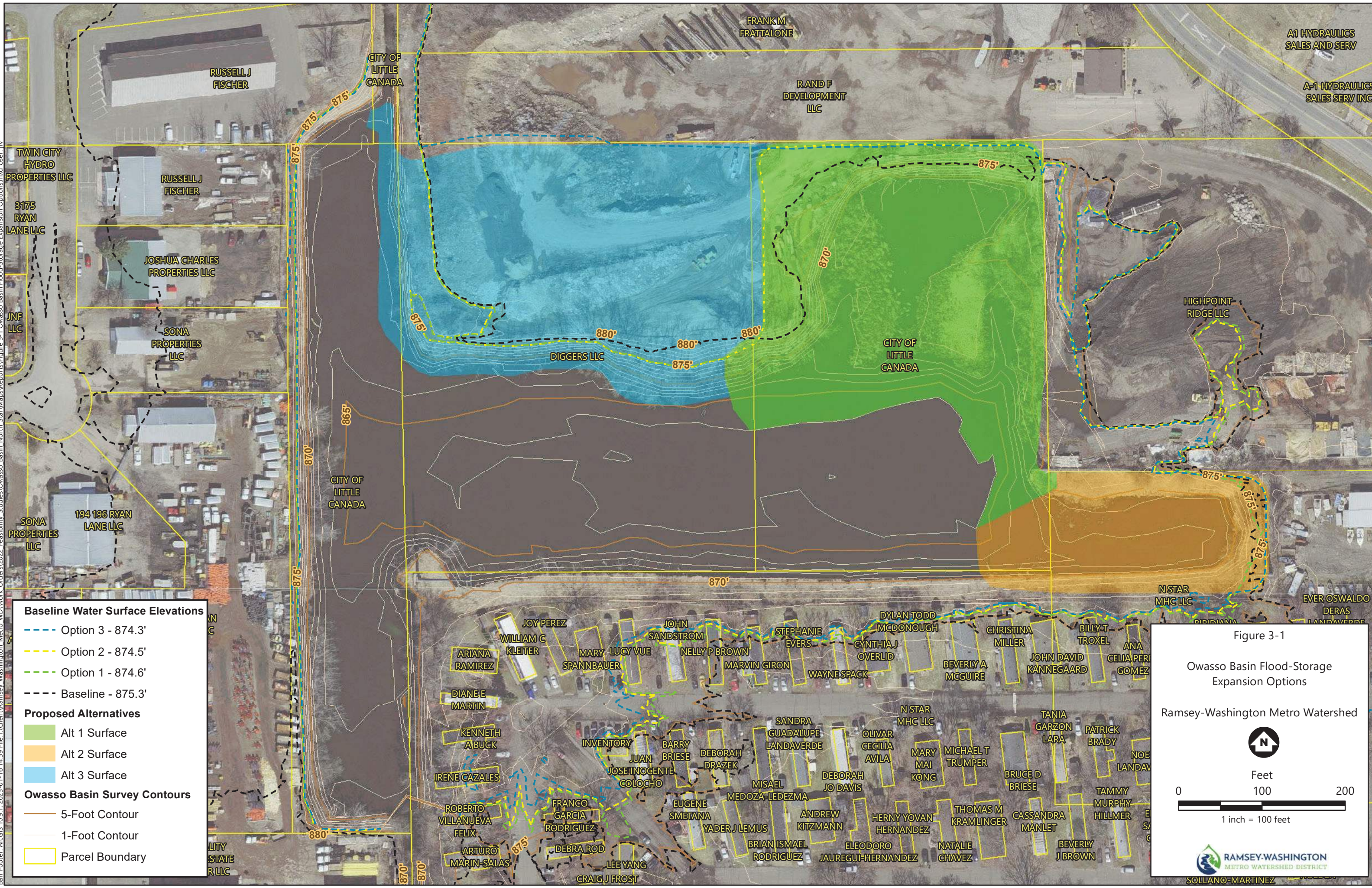
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- Performing localized road raises in North Star Estates
- Constructing elevated walkways (e.g., a wooden structure) from the roadway/parking surface to a home
- Modifying the lot/building of a single home in North Star Estates

All of the above components are required to meet the adopted design criteria in addition to adding flood-storage capacity to Owasso Basin—which is a scalable effort. Hence, the alternatives summarized in the following sections are largely differentiated by variations in the increased flood-storage capacity of Owasso Basin. Figure 3-1 illustrates the grading options (i.e., dredging) of Owasso Basin.



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- Baseline Water Surface Elevations**
- Option 3 - 874.3'
  - Option 2 - 874.5'
  - Option 1 - 874.6'
  - Baseline - 875.3'
- Proposed Alternatives**
- Alt 1 Surface
  - Alt 2 Surface
  - Alt 3 Surface
- Owasso Basin Survey Contours**
- 5-Foot Contour
  - 1-Foot Contour
  - Parcel Boundary

Figure 3-1

Owasso Basin Flood-Storage Expansion Options

Ramsey-Washington Metro Watershed

0 100 200 Feet

1 inch = 100 feet

RAMSEY-WASHINGTON METRO WATERSHED DISTRICT



### 3.1 Alternative 1

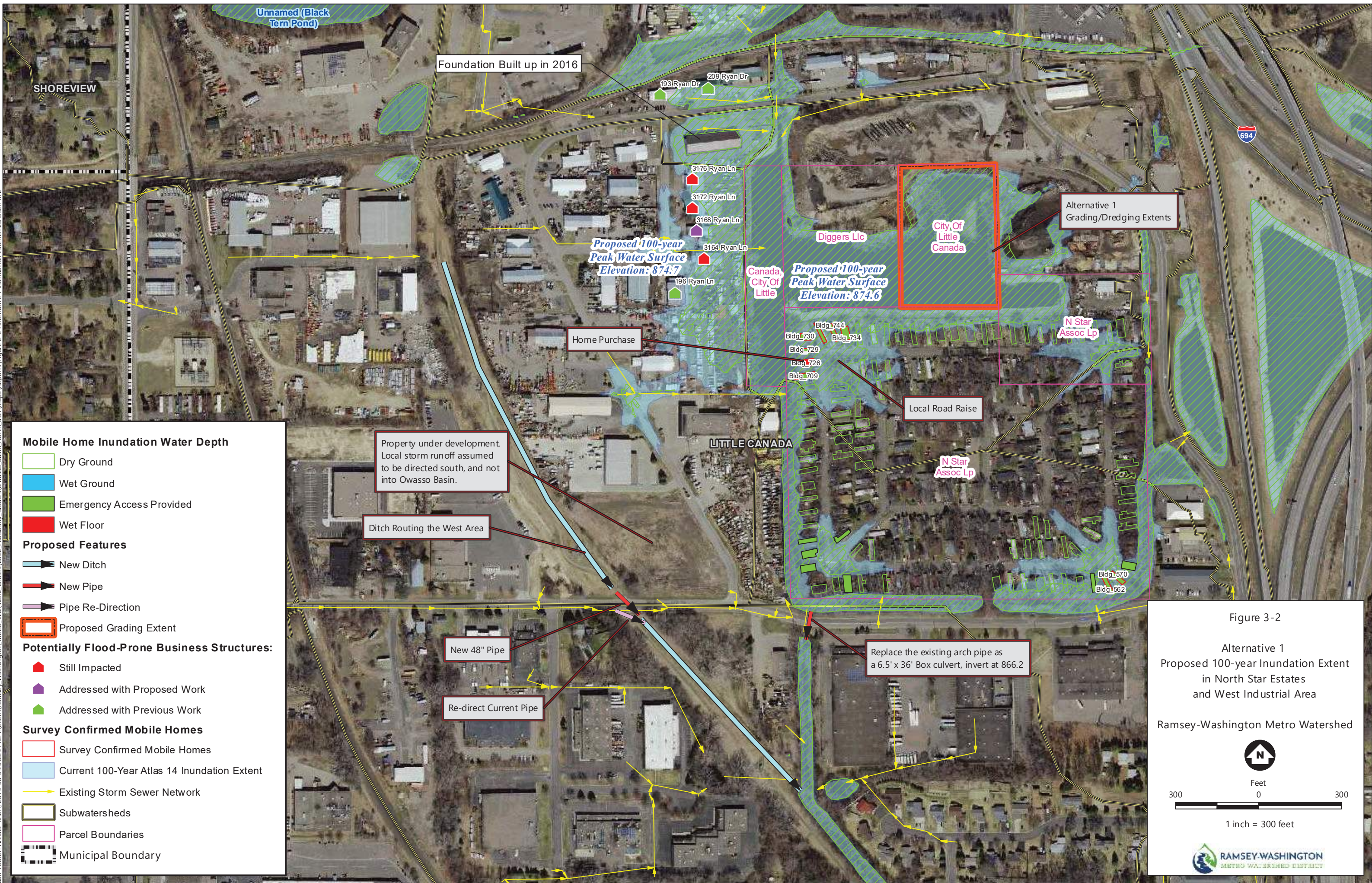
As shown in Figure 3-1, the middle, northern property parcel in Owasso Basin owned by the City of Little Canada is a largely overgrown and under-utilized space within the basin footprint. Excavating/dredging this area to match the existing pond bottom of the Owasso Basin and uniformly grading the side slopes provides 11.79 acre-feet of additional live storage. Based on model conditions, this additional flood-storage capacity will lower the 100-year, 96-hour storm event water-surface elevation in Owasso Basin to 875.13.

Additional infrastructure modifications are required to meet the adopted design criteria and targeted 100-year, 96-hour storm event water-surface elevation of 874.63 for manufactured homes in North Star Estates. These include constructing a surface-water diversion ditch west of Spruce Street to route surface runoff south toward Gervais Creek, bypassing Owasso Basin. By rerouting these surface flows and increasing the hydraulic capacity of the Owasso Basin outlet beneath S. Owasso Blvd., the modeled water-surface elevation is reduced to 874.64. Localized road raises within Owasso Basin and elevated walkways to the entrance of specific homes are required to wholly meet the design criteria.

The components of Alternative 1 are illustrated in Figure 3-2 and include the associated mapped inundation extents. These components are also summarized below:

- Dredging/removing approximately 21,000 cubic yards (includes a 10% contingency) of soil within the parcel owned by the City of Little Canada to expand Owasso Basin flood-storage capacity
  - Adjacent property owner operations have extended onto this City of Little Canada owned parcel. Completing this work will require coordination with the adjacent property owner.
- Constructing a surface-water diversion ditch west of Spruce Street to reroute surface water flows south to Gervais Creek, bypassing Owasso Basin; this component includes a 48-inch-diameter culvert penetrating S. Owasso Blvd., ditch geometry of 4H:1V side slopes, and a bottom width ranging from 10 to 15 feet
- Adding hydraulic capacity to the Owasso Basin outlet equivalent to a 6.5-feet by 36-feet Box culvert, invert at 866.2
- Redirecting a local storm sewer to discharge into Gervais Creek, downstream of S. Owasso Blvd.
- Constructing localized road raises to a nominal center line elevation of 873.75 in one area of North Star Estates
- Constructing 8 wooden access structures from the edge of the roadway or parking area to the building entrance at a nominal elevation of 874.13
- Purchasing or buying out the low home to allow for lot redevelopment or home replacement, installed to meet design criteria







### 3.2 Alternative 2

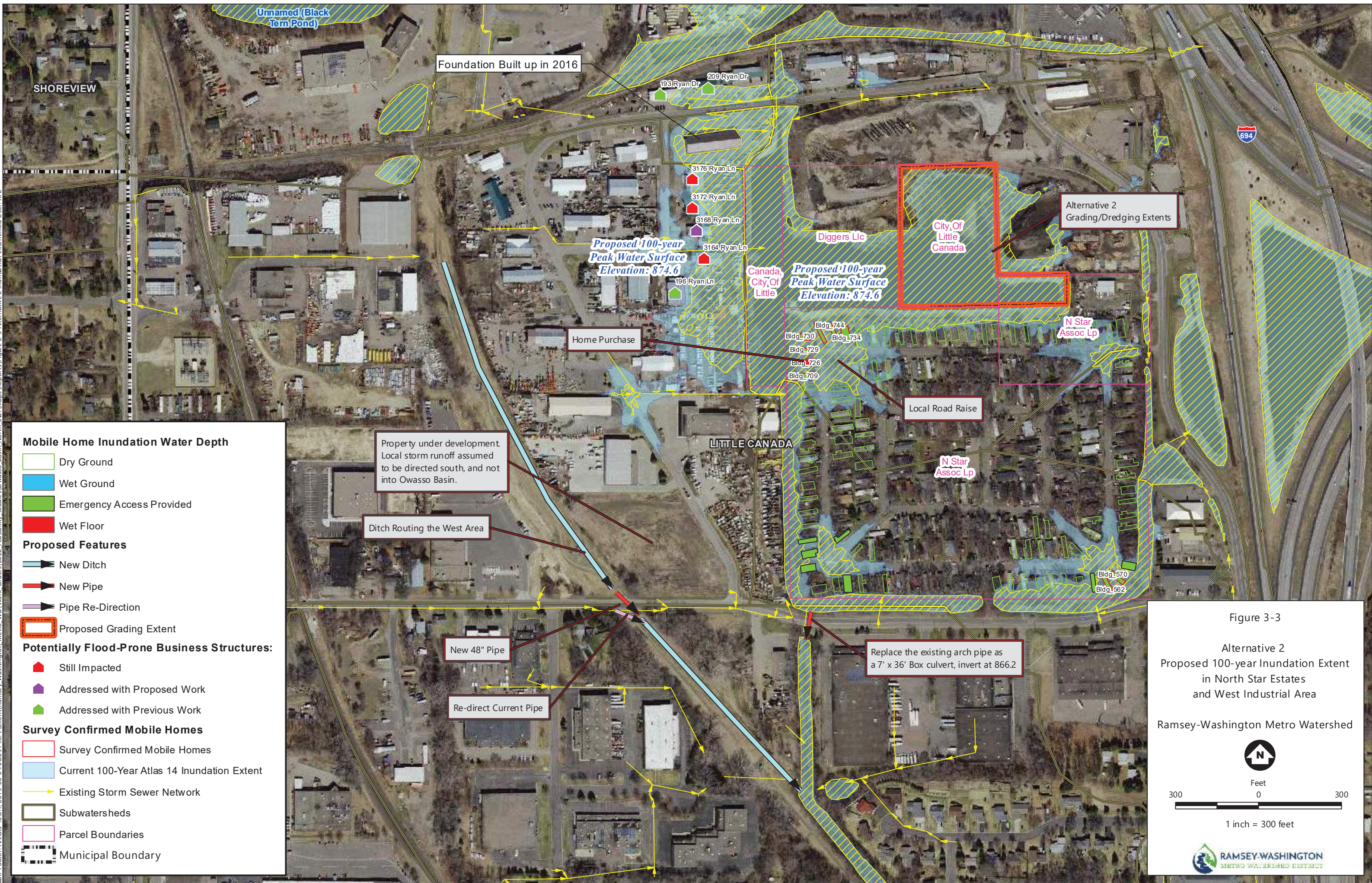
As shown in Figure 3-1, a privately owned parcel in the southeast corner of Owasso Basin is largely overgrown and under-utilized space within the basin footprint. Together with Alternative 1, excavating/dredging this area to match the existing pond bottom of the Owasso Basin and uniformly grading the area's side slopes provides 3.59 acre-feet of additional live storage for a net total of 15.38 acre-feet. Based on model conditions, this additional flood-storage capacity will lower the 100-year, 96-hour storm event water-surface elevation in Owasso Basin to 875.11.

Additional infrastructure modifications are required to meet the Manager-adopted design criteria and targeted 100-year, 96-hour storm event water-surface elevation of 874.63 for manufactured homes in North Star Estates. These include constructing a surface-water diversion ditch west of Spruce Street to route surface runoff south toward Gervais Creek, bypassing Owasso Basin. Rerouting these surface flows and increasing the hydraulic capacity of the Owasso Basin outlet beneath S. Owasso Blvd. reduces the modeled water-surface elevation to 874.62. Localized road raises within Owasso Basin and elevated walkways to the entrance of specific homes are also required to wholly meet the design criteria.

The components of Alternative 2 and the mapped inundation extents are illustrated in Figure 3-3. These components are also summarized below:

- Dredging/removing approximately 27,500 cubic yards (includes a 10% contingency) of soil within the parcel owned by the City of Little Canada and privately owned parcel (N Star MHC LLC) to expand Owasso Basin flood-storage capacity
- Constructing a surface-water diversion ditch west of Spruce Street to reroute surface water flows south to Gervais Creek, bypassing Owasso Basin; this component includes a 48-inch-diameter culvert penetrating S. Owasso Blvd., ditch geometry of 4H:1V side slopes, and a bottom width ranging from 10 to 15 feet
- Adding hydraulic capacity to the Owasso Basin outlet equivalent to a 6.5-feet by 36-feet Box culvert, invert at 866.2
- Redirecting a local storm sewer to discharge into Gervais Creek, downstream of S. Owasso Blvd.
- Constructing localized road raises to a nominal center line elevation of 873.75 in one area of North Star Estates
- Constructing 8 wooden access structures from the edge of the roadway or parking area to the building entrance at a nominal elevation of 874.13
- Purchasing or buying out an especially low home to allow for lot redevelopment or home replacement, installed to meet design criteria







### 3.3 Alternative 3

Businesses identified with low-entry elevations below the 100-year, 96-hour design storm water-surface elevation remain at risk under the model conditions of Alternatives 1 and 2. To remove these businesses from the inundation extents, a large-scale, regional flood-risk-reduction project capable of lowering this water-surface elevation an additional 1.5–2 feet is necessary. A project of this magnitude would be on a scale similar to those illustrated in the 2020 Owasso Basin Bypass Pipeline Feasibility Study. Alternative 3 includes the scope of continuing the Owasso Basin expansion into adjacent land areas. This would be intrusive to existing land use and provides an incremental benefit.

As shown in Figure 3-4, Alternative 3 simulates the expansion of the Owasso Basin footprint into a privately owned parcel in the northwest corner of the basin. This area is currently used as a material stockpile, and to expand, would first require the removal or relocation of the stockpiled materials before dredging of the basin could occur. This analysis includes the full scope of removing/relocating those stockpiled materials. Combined with Alternatives 1 and 2, excavating/dredging this area to match the existing pond bottom of the Owasso Basin and uniformly grading the side slopes provides 20.77 acre-feet of additional live storage for a net total of 36.15 acre-feet. Based on model conditions, this additional flood-storage capacity lowers the 100-year, 96-hour storm event water-surface elevation in Owasso Basin to 874.86.

Additional infrastructure modifications are required to meet the Manager-adopted design criteria and targeted 100-year, 96-hour storm event water-surface elevation of 874.63 for manufactured homes in North Star Estates. These include constructing a surface-water diversion ditch west of Spruce Street to route surface runoff south toward Gervais Creek, bypassing Owasso Basin. Rerouting these surface flows and increasing the hydraulic capacity of the Owasso Basin outlet beneath S. Owasso Blvd. reduces the modeled water-surface elevation to 874.38. Localized road raises within Owasso Basin and elevated walkways to the entrance of specific homes are also required to wholly meet the design criteria.

The components of Alternative 3, including the mapped inundation extents, are illustrated in Figure 3-4. These components are also summarized below:

- Dredging/removing approximately 64,000 cubic yards (includes a 10% contingency) of soil within the parcel owned by the City of Little Canada, a privately owned parcel just to the southeast (N Star MHC LLC), and a portion of the privately owned parcel just to the west (Diggers LLC) to expand Owasso Basin flood-storage capacity
  - Includes the acquisition of approximately 2.5 acres of the privately owned-parcel that is actively being utilized by the owner (Diggers LLC).
- Constructing a surface-water diversion ditch west of Spruce Street to reroute surface water flows south to Gervais Creek, bypassing Owasso Basin; this component includes a 48-inch-diameter

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culvert penetrating S. Owasso Blvd., ditch geometry of 4H:1V side slopes, and a bottom width ranging from 10 to 15 feet

- Adding hydraulic capacity to the Owasso Basin outlet equivalent to a 6.5-feet by 36-feet Box culvert, invert at 866.2
- Redirecting a local storm sewer to discharge into Gervais Creek, downstream of S. Owasso Blvd.
- Constructing localized road raises to a nominal center line elevation of 873.75 in one area of North Star Estates
- Constructing 8 wooden access structures from the edge of the roadway or parking area to the building entrance at a nominal elevation of 874.13
- Purchasing or buying out an especially low home to allow for lot redevelopment or home replacement, installed to meet design criteria







### 3.4 Opinion of Probable Cost

Opinions of probable cost (OPC) have been developed for each alternative. These are provided in Attachment A. Table 3-1 summarizes the cost-benefit of each alternative evaluated based on the construction cost (i.e., excluding planning, engineering, and design and support services).

**Table 3-1 Cost-Benefits Comparison of Three Grading Alternatives**

Alternative	Estimated Construction Costs (-20%/+30%)	Flood Level Reduction (ft)	Buildings Removed from Floodplain	Additional Live Storage (acre-feet)	Cost per Acre-Foot of Additional Live Storage
1	\$2,347,000	0.43	18 Manufactured Homes and 1 Business	11.79	\$199,000
2	\$2,623,000	0.44	18 Manufactured Homes and 1 Business	15.38	\$171,000
3	\$4,050,000	0.69	18 Manufactured Homes and 1 Business	36.15	\$112,000

## 4.0 Stakeholder Engagement

Meetings with the City of Little Canada have taken place throughout the project. These meetings provide the City with updates on the study findings and the opportunity to provide feedback and suggestions regarding the proposed scope. An overview of the findings in this technical memorandum was discussed with City of Little Canada staff on August 30, 2022. In this meeting, the City of Little Canada expressed a willingness to support the District as the project continues.

The City of Little Canada staff asked to review this technical memorandum and for a verbal update to be provided to their City Council members. This presentation to the City of Little Canada Council members took place on January 11, 2022. The City of Little Canada council members did not indicate any exceptions to the alternatives evaluated. The Council Members asked whether they will be asked to participate in funding of the potential future work. Barr and District staff noted that the District Board of Managers may request some form of cost-sharing with the City once the full scope of a future project is established and possible areas of mutual benefit to the City/RWMWD are identified.

Relative to the other homes in North Star Estates, there is an especially low home at risk of flooding under each alternative. Hence, each alternative includes the purchase or buyout of this property to allow for the lot/build site to be reconfigured or the placement of a new home that meets current codes, standards, and City ordinances. Barr and District staff recommend that the City of Little Canada lead the discussion with the constituent on this parcel if this approach moves forward.

**To:** Ramsey-Washington Metro Watershed District (RWMWD) Board of Managers  
**From:** Sam Redinger, Lulu Fang, Brandon Barnes, Erin Anderson Wenz, and Brad Lindaman  
**Subject:** Owasso Basin and North Star Estates Flood-Risk-Reduction Study Update  
**Date:** January 20, 2023  
**Project:** 23/62-1200.22 – 005  
**c:** Tina Carstens, RWMWD administrator  
**Page:** 19

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Formal outreach to the property manager of North Star Estates has not occurred. As the definition of a project is clarified and Manager feedback is obtained, District and Barr staff recommend a formal meeting with the property manager to discuss the study findings and proposed next steps for the North Star Estates area.

If the Managers support moving an alternative forward or specific components of an alternative, communication and coordination with additional project stakeholders are required. This will include coordination with utility owners, property owners, permitting agencies, etc. It will be particularly important to coordinate with the St. Paul Regional Water Authority regarding their existing large-diameter watermain. Each Alternative includes the construction of a surface water diversion ditch along the same alignment as these utilities; project-specific requirements and/or approvals may be necessary to move this component forward. Additionally, the expansion of the Owasso Basin footprint through excavation/dredging will take place on property owned by different entities. Authorization and/or approval from these property owners will be needed to access and work in these areas.

## 5.0 Summary and Closing

This technical memorandum summarized the recent efforts regarding flood-risk-reduction and mitigation measures in the Gervais Creek subwatershed, specifically in and around the Owasso Basin and North Star Estates area. There are several feasible alternatives that the RWMWD could implement to reduce the flood risk for the structures estimated under model conditions to be in the floodplain of the 100-year, 96-hour storm event and meet the Manager-adopted criteria for addressing flood risk in North Star Estates. The estimated cost to implement the various alternatives and components is generally commensurate with increased flood risk benefit. If the Board decides to move any alternative or specific component forward, it will need to consider the appropriate level of investment, weighed against the option of emergency response planning for impacted structures. To reduce the risk to these impacted structures, many of the individual infrastructure concepts would need to be collectively implemented. It is also noted that the alternatives described do not wholly address the flood risk for all impacted structures around Owasso Basin; three businesses remain in the modeled inundation extents for each alternative. Removing these businesses from the modeled inundation extents will require a large-scale, regional flood-risk-reduction project. This study does not evaluate what such a project may involve; examples of the magnitude in scope may be referenced in past reports.

This project requires further design, survey, and site investigations to develop construction documents. Considering the modeled benefits and cost of the alternatives summarized in this technical memorandum, Barr recommends the following:

- Implement the scope of Alternative 2, outlined in Section 3.2. This alternative will reduce the flood risk for impacted structures in the 100-year floodplain within the Gervais Creek subwatershed.

**To:** Ramsey-Washington Metro Watershed District (RWMWD) Board of Managers  
**From:** Sam Redinger, Lulu Fang, Brandon Barnes, Erin Anderson Wenz, and Brad Lindaman  
**Subject:** Owasso Basin and North Star Estates Flood-Risk-Reduction Study Update  
**Date:** January 20, 2023  
**Project:** 23/62-1200.22 – 005  
**c:** Tina Carstens, RWMWD administrator  
**Page:** 20

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- Attachment B provides preliminary design drawings that illustrate the scope of Alternative 2.
- Continue coordinating with project stakeholders such as the City of Little Canada, St. Paul Regional Water Authority, and North Star Estates property management. The City has goals for these areas and showed interest in being involved if one of the alternatives moves forward (e.g., to final design). There may be synergy in coordinating with the City to couple any flood-risk-reduction project with other necessary local improvements to the sanitary sewer, utilities, etc.
- If the RWMWD elects to advance this feasibility study, pursue an optimized design of Alternative 2.

## References

Barr Engineering Co., 2019. System-Wide Evaluation of Flood-Risk Mitigation Options. *Beltline Resiliency Study*. Draft Report. (Barr, 2019)

Barr Engineering Co., 2020. *Owasso Basin Bypass Pipeline Feasibility Study*. Draft Report. (Barr, 2020)

Barr Engineering Co., 2022. *Owasso Basin and North Star Estates Flood Risk Reduction Study Update*. Technical Memorandum. (Barr, 2022)

AACE International Recommended Practice No. 17R-97, 2011 (AACE, 2011)

## Attachments

Attachment A Opinion of Probable Cost  
Attachment B Alternative 2 – Preliminary Design Drawings



## **Attachment A**

### **Opinion of Probable Cost**

<div>BARR</div> <div>PREPARED BY: BARR ENGINEERING CO.</div> <div>Owasso Basin and North Star Estates Flood-Risk-Reduction Study Update</div> <div>ENGINEER'S OPINION OF PROBABLE PROJECT COST</div> <div>PROJECT: Owasso Basin and North Star Estates Flood-Risk-Reduction</div> <div>LOCATION: City of Little Canada, MN</div> <div>PROJECT #: 23/62-1200.22</div>	REV 0	SHEET: 1	OF 1

Engineer's Opinion of Probable Project Cost - Alternative 1

Owasso Basin and North Star Estates Flood-Risk-Reduction Study Update

Item No.	ITEM DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT COST	ITEM COST	NOTES
General Items						
01 11 00.01	General Requirements	LS	1.00	\$ 8,000.00	\$ 8,000.00	1,2,3,4,5
01 50 00.01	Construction Facilities	LS	1.00	\$ 8,000.00	\$ 8,000.00	1,2,3,4,5
01 50 00.02	Temporary Erosion and Sediment Control	LS	1.00	\$ 15,000.00	\$ 15,000.00	1,2,3,4,5
01 56 00.01	Temporary Utility Management	LS	1.00	\$ 15,000.00	\$ 15,000.00	1,2,3,4,5
01 71 13.01	Mobilization/Demobilization	LS	1.00	\$ 100,000.00	\$ 100,000.00	1,2,3,4,5
01 74 23.01	Site Restoration (Blanket & Seeding)	LS	1.00	\$ 10,000.00	\$ 10,000.00	1,2,3,4,5
34 71 00.01	Traffic Control	LS	1.00	\$ 20,000.00	\$ 20,000.00	1,2,3,4,5
North Star Estates						
02 41 00.05	Saw-Cut, Bituminous pavement	LF	250.00	\$ 5.00	\$ 1,250.00	1,2,3,4,5
02 41 00.06	Remove and Dispose Bituminous Pavement	SY	1,400.00	\$ 5.00	\$ 7,000.00	1,2,3,4,5
02 41 13.06	Utility Removal - Pipes (All sizes and types)(Allowance)	LF	100.00	\$ 30.00	\$ 3,000.00	1,2,3,4,5
06 10 00.01	Access Structure (Wooden)	EA	8.00	\$ 6,500.00	\$ 52,000.00	1,2,3,4,5
10 05 00.01	Home Purchase/Buyout	EA	1.00	\$ 150,000.00	\$ 150,000.00	1,2,3,4,5
32 12 00.01	Bituminous Pavement (local roadway)	TON	250.00	\$ 125.00	\$ 31,250.00	1,2,3,4,5
31 00 00.05	Roadway Embankment (Select Granular Borrow)	CY	350.00	\$ 30.00	\$ 10,500.00	1,2,3,4,5
31 00 00.07	Aggregate Base Class 6	CY	400.00	\$ 30.00	\$ 12,000.00	1,2,3,4,5
32 12 00.01	Bituminous Pavement (Industrial Roadway)	TON	120.00	\$ 150.00	\$ 18,000.00	1,2,3,4,5
31 00 00.09	Shoulder Aggregate Class 2 (100% Crushed Quarry Rock)	TON	30.00	\$ 45.00	\$ 1,350.00	1,2,3,4,5
33 42 00.01	18-FT Wide X 7-FT Tall Reinf. Conc. Box Culvert End Section (MnDOT Class, Type I)	EA	4.00	\$ 30,000.00	\$ 120,000.00	1,2,3,4,5
33 42 00.02	18-FT Wide X 7-FT Tall Reinf. Conc. Box Culvert End Section (MnDOT Class I)	LF	200.00	\$ 1,800.00	\$ 360,000.00	1,2,3,4,5
31 00 00.08	Riprap w/fabric (Mn/DOT CL III)	CY	80.00	\$ 100.00	\$ 8,000.00	1,2,3,4,5
02 41 00.01	Removal of Trees, Brush, and Debris (Disposal Off Site)	LS	1.00	\$ 15,000.00	\$ 15,000.00	1,2,3,4,5
02 41 00.03	Remove and Dispose of 78-in Tall x 122-Wide Tall RC Arch Pipe	LF	100.00	\$ 85.00	\$ 8,500.00	1,2,3,4,5
West Diversion Ditch						
02 41 00.05	Saw-Cut, Bituminous pavement	LF	60.00	\$ 5.00	\$ 300.00	1,2,3,4,5
02 41 00.06	Remove and Dispose Bituminous Pavement	SY	400.00	\$ 5.00	\$ 2,000.00	1,2,3,4,5
02 41 13.06	Utility Removal - Pipes (All sizes and types)(Allowance)	LF	100.00	\$ 30.00	\$ 3,000.00	1,2,3,4,5
31 00 00.01	Common Excavation - Embankment	CY	10,000.00	\$ 6.50	\$ 65,000.00	1,2,3,4,5
32 12 00.01	Bituminous Pavement (Industrial Roadway)	TON	120.00	\$ 150.00	\$ 18,000.00	1,2,3,4,5
31 00 00.09	Shoulder Aggregate Class 2 (100% Crushed Quarry Rock)	TON	25.00	\$ 45.00	\$ 1,125.00	1,2,3,4,5
31 00 00.05	Roadway Embankment (Select Granular Borrow)	CY	150.00	\$ 30.00	\$ 4,500.00	1,2,3,4,5
31 00 00.07	Aggregate Base Class 6	CY	60.00	\$ 30.00	\$ 1,800.00	1,2,3,4,5
33 42 00.01	4-FT Wide X 2-FT Tall Reinf. Conc. Box Culvert End Section (MnDOT Class, Type I)	EA	4.00	\$ 10,000.00	\$ 40,000.00	1,2,3,4,5
33 42 00.02	4-FT Wide X 2-FT Tall Reinf. Conc. Box Culvert (MnDOT Class I)	LF	132.00	\$ 1,000.00	\$ 132,000.00	1,2,3,4,5
31 00 00.01	Strip, Salvage, and Replace Topsoil (6-in Depth)	CY	1,800.00	\$ 20.00	\$ 36,000.00	1,2,3,4,5
31 00 00.08	Riprap w/fabric (Mn/DOT CL III)	CY	50.00	\$ 100.00	\$ 5,000.00	1,2,3,4,5
02 41 00.01	Removal of Trees, Brush, and Debris (Disposal Off Site)	LS	1.00	\$ 15,000.00	\$ 15,000.00	1,2,3,4,5
Owasso Basin Dredging - Option 1						
01 74 23.02	Construction Entrance	EA	2.00	\$ 1,750.00	\$ 3,500.00	1,2,3,4,5
02 41 00.01	Removal of Trees, Brush, and Debris (Disposal Off Site)	LS	1.00	\$ 30,000.00	\$ 30,000.00	1,2,3,4,5
31 00 00.01	Strip, Salvage, and Replace Topsoil (6-in Depth)	CY	500.00	\$ 20.00	\$ 10,000.00	1,2,3,4,5
31 00 00.02	Sediment and Muck Excavation, Loading, and Hauling (Regulated)	TON	35,000.00	\$ 20.00	\$ 700,000.00	1,2,3,4,5
	CONSTRUCTION SUBTOTAL				\$2,041,000.00	1,2,3,4,5,8
	CONSTRUCTION CONTINGENCY (15%)				\$306,000.00	1,5,8
	ESTIMATED CONSTRUCTION COST				\$2,347,000.00	1,2,3,4,5,8
	PLANNING, ENGINEERING & DESIGN				\$402,000.00	1,2,3,4,5,8
	PERMITTING & REGULATORY APPROVALS				\$50,000.00	1,5,6,8
	CONSTRUCTION MANAGEMENT				\$235,000.00	1,5,8
	ESTIMATED TOTAL PROJECT COST				\$3,034,000.00	1,2,3,4,5,7,8
ESTIMATED ACCURACY RANGE			-20%		\$2,428,000.00	5,7,8
			30%		\$3,945,000.00	5,7,8

Notes
<sup>1</sup> Limited design work completed (15-30%).
<sup>2</sup> Quantities based on design work completed.
<sup>3</sup> Unit prices based on information available at this time.
<sup>4</sup> No soil borings collected.
<sup>5</sup> This feasibility-level (Class 3, 10-40% design completion per AACE International Recommended Practice No. 17R-97, 2011) cost estimate is based on feasibility-level designs, alignments, quantities and unit prices. Costs will change with further design. Time value-of-money escalation costs are not included. A construction schedule is not available at this time. Contingency is an allowance for the net sum of costs that will be in the Final Total Project Cost at the time of the completion of design, but are not included at this level of project definition. The estimated accuracy range for the Total Project Cost as the project is defined is -20% to +30%. The accuracy range is based on professional judgement considering the level of design completed, the complexity of the project and the uncertainties in the project as scoped. The contingency and the accuracy range are not intended to include costs for future scope changes that are not part of the project as currently scoped or costs for risk contingency. Operation and Maintenance costs are not included.
<sup>6</sup> Estimate assumes that wetland mitigation/replacement is not required. Included are the cost for agency communication and application preparation for a permit . If replacement/mitigation is required, the total cost may increase an approximately \$10,000 plus an additional \$100,000/acre of wetland disturbed.
<sup>7</sup> Estimate costs are to design, construct, and permit the project as currently designed (approximately 15-30%). The estimated costs do not include maintenance, monitoring or additional tasks following construction.
<sup>8</sup> Estimate costs are reported to nearest thousand dollars.

<div>BARR</div> <div>PREPARED BY: BARR ENGINEERING CO.</div> <div>Owasso Basin and North Star Estates Flood-Risk-Reduction Study Update</div> <div>ENGINEER'S OPINION OF PROBABLE PROJECT COST</div> <div>PROJECT: Owasso Basin and North Star Estates Flood-Risk-Reduction</div> <div>LOCATION: City of Little Canada, MN</div> <div>PROJECT #: 23/62-1200.22</div>	REV 0	SHEET:	1	OF	1	
Engineer's Opinion of Probable Project Cost - Alternative 2						
Owasso Basin and North Star Estates Flood-Risk-Reduction Study Update						
Item No.	ITEM DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT COST	ITEM COST	NOTES
General Items						
01 11 00.01	General Requirements	LS	1.00	\$ 8,000.00	\$ 8,000.00	1,2,3,4,5
01 50 00.01	Construction Facilities	LS	1.00	\$ 8,000.00	\$ 8,000.00	1,2,3,4,5
01 50 00.02	Temporary Erosion and Sediment Control	LS	1.00	\$ 15,000.00	\$ 15,000.00	1,2,3,4,5
01 56 00.01	Temporary Utility Management	LS	1.00	\$ 15,000.00	\$ 15,000.00	1,2,3,4,5
01 71 13.01	Mobilization/Demobilization	LS	1.00	\$ 100,000.00	\$ 100,000.00	1,2,3,4,5
01 74 23.01	Site Restoration (Blanket & Seeding)	LS	1.00	\$ 10,000.00	\$ 10,000.00	1,2,3,4,5
34 71 00.01	Traffic Control	LS	1.00	\$ 20,000.00	\$ 20,000.00	1,2,3,4,5
North Star Estates						
02 41 00.05	Saw-Cut, Bituminous pavement	LF	250.00	\$ 5.00	\$ 1,250.00	1,2,3,4,5
02 41 00.06	Remove and Dispose Bituminous Pavement	SY	1,400.00	\$ 5.00	\$ 7,000.00	1,2,3,4,5
02 41 13.06	Utility Removal - Pipes (All sizes and types)(Allowance)	LF	100.00	\$ 30.00	\$ 3,000.00	1,2,3,4,5
06 10 00.01	Access Structure (Wooden)	EA	8.00	\$ 6,500.00	\$ 52,000.00	1,2,3,4,5
10 05 00.01	Home Purchase/Buyout	EA	1.00	\$ 150,000.00	\$ 150,000.00	1,2,3,4,5
32 12 00.01	Bituminous Pavement (local roadway)	TON	250.00	\$ 125.00	\$ 31,250.00	1,2,3,4,5
31 00 00.05	Roadway Embankment (Select Granular Borrow)	CY	350.00	\$ 30.00	\$ 10,500.00	1,2,3,4,5
31 00 00.07	Aggregate Base Class 6	CY	400.00	\$ 30.00	\$ 12,000.00	1,2,3,4,5
32 12 00.01	Bituminous Pavement (Industrial Roadway)	TON	120.00	\$ 150.00	\$ 18,000.00	1,2,3,4,5
31 00 00.09	Shoulder Aggregate Class 2 (100% Crushed Quarry Rock)	TON	30.00	\$ 45.00	\$ 1,350.00	1,2,3,4,5
33 42 00.01	18-FT Wide X 7-FT Tall Reinf. Conc. Box Culvert End Section (MnDOT Class, Ty	EA	4.00	\$ 30,000.00	\$ 120,000.00	1,2,3,4,5
33 42 00.02	18-FT Wide X 7-FT Tall Reinf. Conc. Box Culvert End Section (MnDOT Class I)	LF	200.00	\$ 1,800.00	\$ 360,000.00	1,2,3,4,5
31 00 00.08	Riprap w/fabric (Mn/DOT CL III)	CY	80.00	\$ 100.00	\$ 8,000.00	1,2,3,4,5
02 41 00.01	Removal of Trees, Brush, and Debris (Disposal Off Site)	LS	1.00	\$ 15,000.00	\$ 15,000.00	1,2,3,4,5
02 41 00.03	Remove and Dispose of 78-in Tall x 122-Wide Tall RC Arch Pipe	LF	100.00	\$ 85.00	\$ 8,500.00	1,2,3,4,5
West Diversion Ditch						
02 41 00.05	Saw-Cut, Bituminous pavement	LF	60.00	\$ 5.00	\$ 300.00	1,2,3,4,5
02 41 00.06	Remove and Dispose Bituminous Pavement	SY	400.00	\$ 5.00	\$ 2,000.00	1,2,3,4,5
02 41 13.06	Utility Removal - Pipes (All sizes and types)(Allowance)	LF	100.00	\$ 30.00	\$ 3,000.00	1,2,3,4,5
31 00 00.01	Common Excavation - Embankment	CY	10,000.00	\$ 6.50	\$ 65,000.00	1,2,3,4,5
32 12 00.01	Bituminous Pavement (Industrial Roadway)	TON	120.00	\$ 150.00	\$ 18,000.00	1,2,3,4,5
31 00 00.09	Shoulder Aggregate Class 2 (100% Crushed Quarry Rock)	TON	25.00	\$ 45.00	\$ 1,125.00	1,2,3,4,5
31 00 00.05	Roadway Embankment (Select Granular Borrow)	CY	150.00	\$ 30.00	\$ 4,500.00	1,2,3,4,5
31 00 00.07	Aggregate Base Class 6	CY	60.00	\$ 30.00	\$ 1,800.00	1,2,3,4,5
33 42 00.01	4-FT Wide X 2-FT Tall Reinf. Conc. Box Culvert End Section (MnDOT Class, Ty	EA	4.00	\$ 10,000.00	\$ 40,000.00	1,2,3,4,5
33 42 00.02	4-FT Wide X 2-FT Tall Reinf. Conc. Box Culvert (MnDOT Class I)	LF	132.00	\$ 1,000.00	\$ 132,000.00	1,2,3,4,5
31 00 00.01	Strip, Salvage, and Replace Topsoil (6-in Depth)	CY	1,800.00	\$ 20.00	\$ 36,000.00	1,2,3,4,5
31 00 00.08	Riprap w/fabric (Mn/DOT CL III)	CY	50.00	\$ 100.00	\$ 5,000.00	1,2,3,4,5
02 41 00.01	Removal of Trees, Brush, and Debris (Disposal Off Site)	LS	1.00	\$ 15,000.00	\$ 15,000.00	1,2,3,4,5
Owasso Basin Dredging - Option 1 & 2						
01 74 23.02	Construction Entrance	EA	4.00	\$ 1,750.00	\$ 7,000.00	1,2,3,4,5
02 41 00.01	Removal of Trees, Brush, and Debris (Disposal Off Site)	LS	1.00	\$ 45,000.00	\$ 45,000.00	1,2,3,4,5
31 00 00.01	Strip, Salvage, and Replace Topsoil (6-in Depth)	CY	550.00	\$ 20.00	\$ 11,000.00	1,2,3,4,5
31 00 00.02	Sediment and Muck Excavation, Loading, and Hauling (Regulated)	TON	46,000.00	\$ 20.00	\$ 920,000.00	1,2,3,4,5
	CONSTRUCTION SUBTOTAL				\$2,281,000.00	1,2,3,4,5,8
	CONSTRUCTION CONTINGENCY (15%)				\$342,000.00	1,5,8
	ESTIMATED CONSTRUCTION COST				\$2,623,000.00	1,2,3,4,5,8
	PLANNING, ENGINEERING & DESIGN				\$443,000.00	1,2,3,4,5,8
	PERMITTING & REGULATORY APPROVALS				\$50,000.00	1,5,6,8
	CONSTRUCTION MANAGEMENT				\$262,000.00	1,5,8
	ESTIMATED TOTAL PROJECT COST				\$3,378,000.00	1,2,3,4,5,7,8
ESTIMATED ACCURACY RANGE			-20%		\$2,703,000.00	5,7,8
			30%		\$4,392,000.00	5,7,8

Notes	
1	Limited design work completed (15-30%).
2	Quantities based on design work completed.
3	Unit prices based on information available at this time.
4	No soil borings collected.
5	This feasibility-level (Class 3, 10-40% design completion per AACE International Recommended Practice No. 17R-97, 2011) cost estimate is based on feasibility-level designs, alignments, quantities and unit prices. Costs will change with further design. Time value-of-money escalation costs are not included. A construction schedule is not available at this time. Contingency is an allowance for the net sum of costs that will be in the Final Total Project Cost at the time of the completion of design, but are not included at this level of project definition. The estimated accuracy range for the Total Project Cost as the project is defined is -20% to +30%. The accuracy range is based on professional judgement considering the level of design completed, the complexity of the project and the uncertainties in the project as scoped. The contingency and the accuracy range are not intended to include costs for future scope changes that are not part of the project as currently scoped or costs for risk contingency. Operation and Maintenance costs are not included.
6	Estimate assumes that wetland mitigation/replacement is not required. Included are the cost for agency communication and application preparation for a permit. If replacement/mitigation is required, the total cost may increase an approximately \$10,000 plus an additional \$100,000/acre of wetland disturbed.
7	Estimate costs are to design, construct, and permit the project as currently designed (approximately 15-30%). The estimated costs do not include maintenance, monitoring or additional tasks following construction.
8	Estimate costs are reported to nearest thousand dollars.

<div><div>BARR</div><div>PREPARED BY: BARR ENGINEERING CO.</div></div> <div><div>Owasso Basin and North Star Estates Flood-Risk-Reduction Study Update</div><div>ENGINEER'S OPINION OF PROBABLE PROJECT COST</div><div>PROJECT: Owasso Basin and North Star Estates Flood-Risk-Reduction</div><div>LOCATION: City of Little Canada, MN</div><div>PROJECT #: 23/62-1200.22</div></div>	REV 0	SHEET:	1	OF	1	
Engineer's Opinion of Probable Project Cost - Alternative 3						
Owasso Basin and North Star Estates Flood-Risk-Reduction Study Update						
Item No.	ITEM DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT COST	ITEM COST	NOTES
General Items						
01 11 00.01	General Requirements	LS	1.00	\$ 8,000.00	\$ 8,000.00	1,2,3,4,5
01 50 00.01	Construction Facilities	LS	1.00	\$ 8,000.00	\$ 8,000.00	1,2,3,4,5
01 50 00.02	Temporary Erosion and Sediment Control	LS	1.00	\$ 15,000.00	\$ 15,000.00	1,2,3,4,5
01 56 00.01	Temporary Utility Management	LS	1.00	\$ 15,000.00	\$ 15,000.00	1,2,3,4,5
01 71 13.01	Mobilization/Demobilization	LS	1.00	\$ 100,000.00	\$ 100,000.00	1,2,3,4,5
01 74 23.01	Site Restoration (Blanket & Seeding)	LS	1.00	\$ 10,000.00	\$ 10,000.00	1,2,3,4,5
34 71 00.01	Traffic Control	LS	1.00	\$ 20,000.00	\$ 20,000.00	1,2,3,4,5
North Star Estates						
02 41 00.05	Saw-Cut, Bituminous pavement	LF	250.00	\$ 5.00	\$ 1,250.00	1,2,3,4,5
02 41 00.06	Remove and Dispose Bituminous Pavement	SY	1,400.00	\$ 5.00	\$ 7,000.00	1,2,3,4,5
02 41 13.06	Utility Removal - Pipes (All sizes and types)(Allowance)	LF	100.00	\$ 30.00	\$ 3,000.00	1,2,3,4,5
06 10 00.01	Access Structure (Wooden)	EA	8.00	\$ 6,500.00	\$ 52,000.00	1,2,3,4,5
10 05 00.01	Home Purchase/Buyout	EA	1.00	\$ 150,000.00	\$ 150,000.00	1,2,3,4,5
32 12 00.01	Bituminous Pavement (local roadway)	TON	250.00	\$ 125.00	\$ 31,250.00	1,2,3,4,5
31 00 00.05	Roadway Embankment (Select Granular Borrow)	CY	350.00	\$ 30.00	\$ 10,500.00	1,2,3,4,5
31 00 00.07	Aggregate Base Class 6	CY	400.00	\$ 30.00	\$ 12,000.00	1,2,3,4,5
32 12 00.01	Bituminous Pavement (Industrial Roadway)	TON	120.00	\$ 150.00	\$ 18,000.00	1,2,3,4,5
31 00 00.09	Shoulder Aggregate Class 2 (100% Crushed Quarry Rock)	TON	30.00	\$ 45.00	\$ 1,350.00	1,2,3,4,5
33 42 00.01	18-FT Wide X 7-FT Tall Reinf. Conc. Box Culvert End Section (MnDOT Class, Ty	EA	4.00	\$ 30,000.00	\$ 120,000.00	1,2,3,4,5
33 42 00.02	18-FT Wide X 7-FT Tall Reinf. Conc. Box Culvert End Section (MnDOT Class I)	LF	200.00	\$ 1,800.00	\$ 360,000.00	1,2,3,4,5
31 00 00.08	Riprap w/fabric (Mn/DOT CL III)	CY	80.00	\$ 100.00	\$ 8,000.00	1,2,3,4,5
02 41 00.01	Removal of Trees, Brush, and Debris (Disposal Off Site)	LS	1.00	\$ 15,000.00	\$ 15,000.00	1,2,3,4,5
02 41 00.03	Remove and Dispose of 78-in Tall x 122-Wide Tall RC Arch Pipe	LF	100.00	\$ 85.00	\$ 8,500.00	1,2,3,4,5
West Diversion Ditch						
02 41 00.05	Saw-Cut, Bituminous pavement	LF	60.00	\$ 5.00	\$ 300.00	1,2,3,4,5
02 41 00.06	Remove and Dispose Bituminous Pavement	SY	400.00	\$ 5.00	\$ 2,000.00	1,2,3,4,5
02 41 13.06	Utility Removal - Pipes (All sizes and types)(Allowance)	LF	100.00	\$ 30.00	\$ 3,000.00	1,2,3,4,5
31 00 00.01	Common Excavation - Embankment	CY	10,000.00	\$ 6.50	\$ 65,000.00	1,2,3,4,5
32 12 00.01	Bituminous Pavement (Industrial Roadway)	TON	120.00	\$ 150.00	\$ 18,000.00	1,2,3,4,5
31 00 00.09	Shoulder Aggregate Class 2 (100% Crushed Quarry Rock)	TON	25.00	\$ 45.00	\$ 1,125.00	1,2,3,4,5
31 00 00.05	Roadway Embankment (Select Granular Borrow)	CY	150.00	\$ 30.00	\$ 4,500.00	1,2,3,4,5
31 00 00.07	Aggregate Base Class 6	CY	60.00	\$ 30.00	\$ 1,800.00	1,2,3,4,5
33 42 00.01	4-FT Wide X 2-FT Tall Reinf. Conc. Box Culvert End Section (MnDOT Class, Ty	EA	4.00	\$ 10,000.00	\$ 40,000.00	1,2,3,4,5
33 42 00.02	4-FT Wide X 2-FT Tall Reinf. Conc. Box Culvert (MnDOT Class I)	LF	132.00	\$ 1,000.00	\$ 132,000.00	1,2,3,4,5
31 00 00.01	Strip, Salvage, and Replace Topsoil (6-in Depth)	CY	1,800.00	\$ 20.00	\$ 36,000.00	1,2,3,4,5
31 00 00.08	Riprap w/fabric (Mn/DOT CL III)	CY	50.00	\$ 100.00	\$ 5,000.00	1,2,3,4,5
02 41 00.01	Removal of Trees, Brush, and Debris (Disposal Off Site)	LS	1.00	\$ 15,000.00	\$ 15,000.00	1,2,3,4,5
Owasso Basin Dredging - Option 1 & 2 & 3						
01 74 23.02	Construction Entrance	EA	6.00	\$ 1,750.00	\$ 10,500.00	1,2,3,4,5
02 41 00.01	Removal of Trees, Brush, and Debris (Disposal Off Site)	LS	1.00	\$ 70,000.00	\$ 70,000.00	1,2,3,4,5
31 00 00.01	Strip, Salvage, and Replace Topsoil (6-in Depth)	CY	700.00	\$ 20.00	\$ 14,000.00	1,2,3,4,5
31 00 00.02	Sediment and Muck Excavation, Loading, and Hauling (Regulated)	TON	94,000.00	\$ 20.00	\$ 1,880,000.00	1,2,3,4,5
10 05 00.01	Property Acquisition (2.5 Acre) (Allowance)	LS	1.00	\$ 250,000.00	\$ 250,000.00	1,2,3,4,5
	CONSTRUCTION SUBTOTAL				\$3,522,000.00	1,2,3,4,5,8
	CONSTRUCTION CONTINGENCY (15%)				\$528,000.00	1,5,8
	ESTIMATED CONSTRUCTION COST				\$4,050,000.00	1,2,3,4,5,8
	PLANNING, ENGINEERING & DESIGN				\$658,000.00	1,2,3,4,5,8
	PERMITTING & REGULATORY APPROVALS				\$50,000.00	1,5,6,8
	CONSTRUCTION MANAGEMENT				\$405,000.00	1,5,8
	ESTIMATED TOTAL PROJECT COST				\$5,163,000.00	1,2,3,4,5,7,8
ESTIMATED ACCURACY RANGE			-20%		\$4,131,000.00	5,7,8
			30%		\$6,712,000.00	5,7,8

Notes	
	<sup>1</sup> Limited design work completed (15-30%).
	<sup>2</sup> Quantities based on design work completed.
	<sup>3</sup> Unit prices based on information available at this time.
	<sup>4</sup> No soil borings collected.
	<sup>5</sup> This feasibility-level (Class 3, 10-40% design completion per AACE International Recommended Practice No. 17R-97, 2011) cost estimate is based on feasibility-level designs, alignments, quantities and unit prices. Costs will change with further design. Time value-of-money escalation costs are not included. A construction schedule is not available at this time. Contingency is an allowance for the net sum of costs that will be in the Final Total Project Cost at the time of the completion of design, but are not included at this level of project definition. The estimated accuracy range for the Total Project Cost as the project is defined is -20% to +30%. The accuracy range is based on professional judgement considering the level of design completed, the complexity of the project and the uncertainties in the project as scoped. The contingency and the accuracy range are not intended to include costs for future scope changes that are not part of the project as currently scoped or costs for risk contingency. Operation and Maintenance costs are not included.
	<sup>6</sup> Estimate assumes that wetland mitigation/replacement is not required. Included are the cost for agency communication and application preparation for a permit . If replacement/mitigation is required, the total cost may increase an approximately \$10,000 plus an additional \$100,000/acre of wetland disturbed.
	<sup>7</sup> Estimate costs are to design, construct, and permit the project as currently designed (approximately 15-30%). The estimated costs do not include maintenance, monitoring or additional tasks following construction.
	<sup>8</sup> Estimate costs are reported to nearest thousand dollars.



## **Attachment B**

### **Alternative 2 – Preliminary Design Drawings**



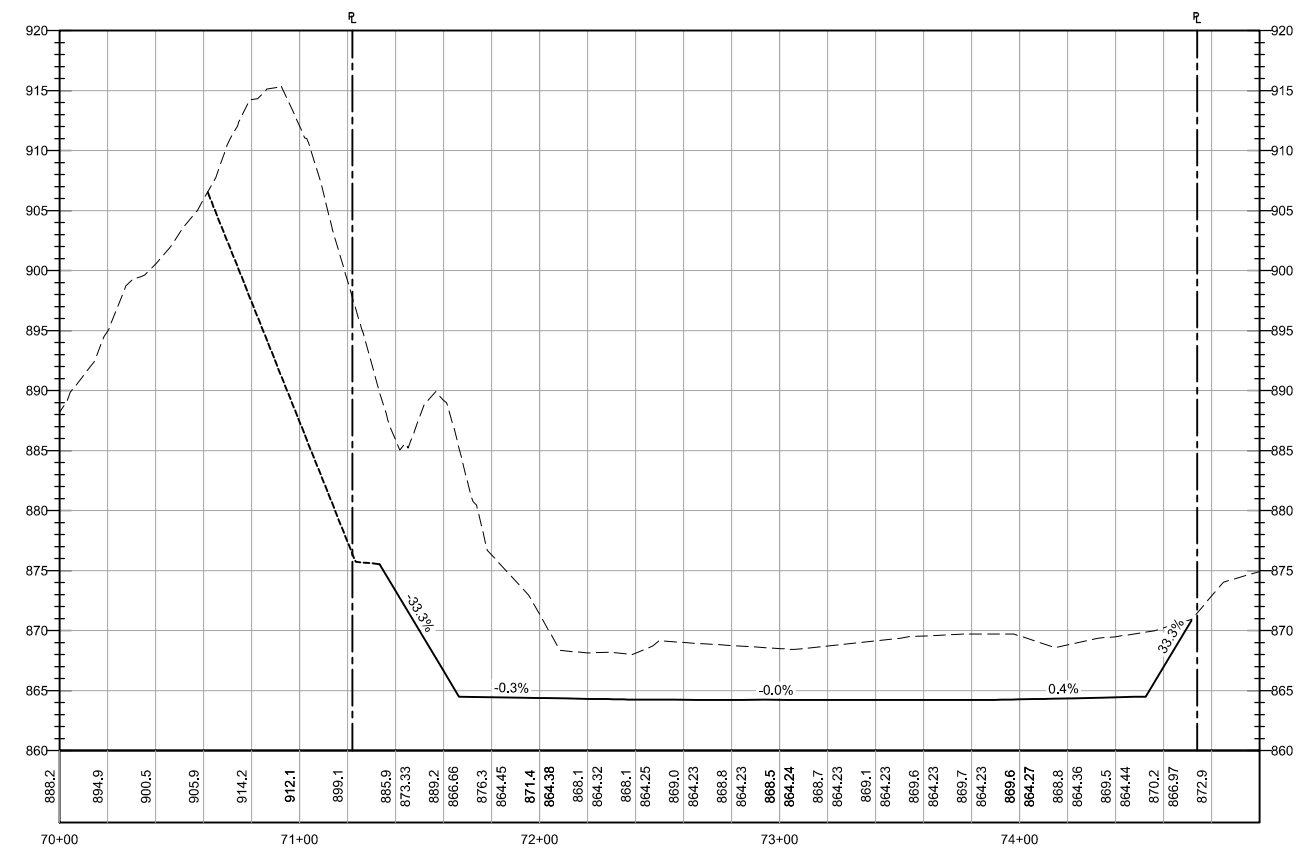
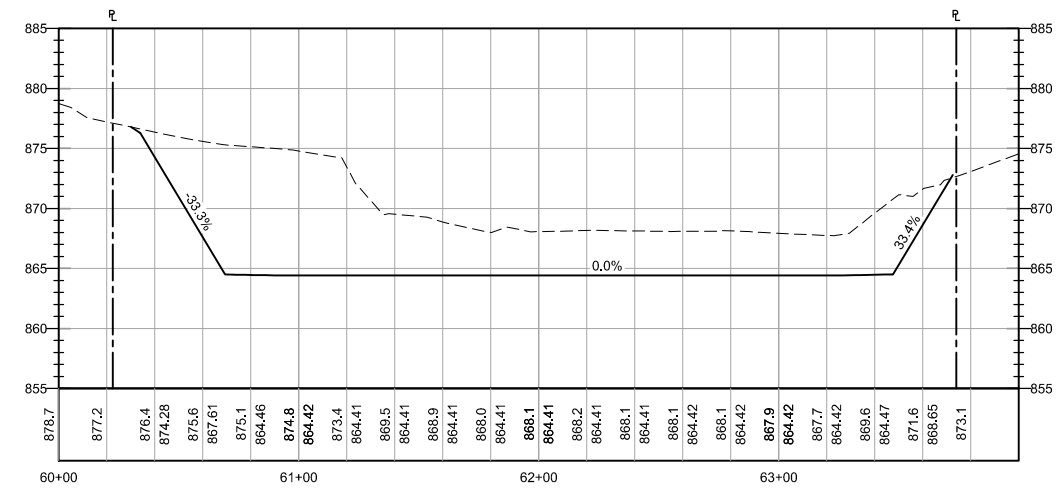












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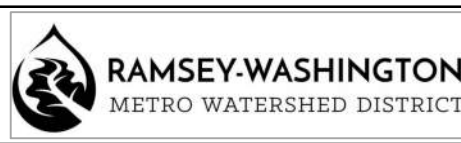
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RECORD	___	___	___	___	___	___	___
	___	___	___	___	___	___	___
RELEASED TO/FOR	A	B	C	0	1	2	3
	DATE RELEASED						

**BARR**

Corporate Headquarters:  
Minneapolis, Minnesota  
Ph: 1-800-632-2277

Project Office:  
**BARR ENGINEERING CO.**  
4300 MARKETPOINTE DRIVE  
Suite 200  
MINNEAPOLIS, MN 55435  
Ph: 1-800-632-2277  
Fax: (952) 832-2601  
[www.barr.com](http://www.barr.com)

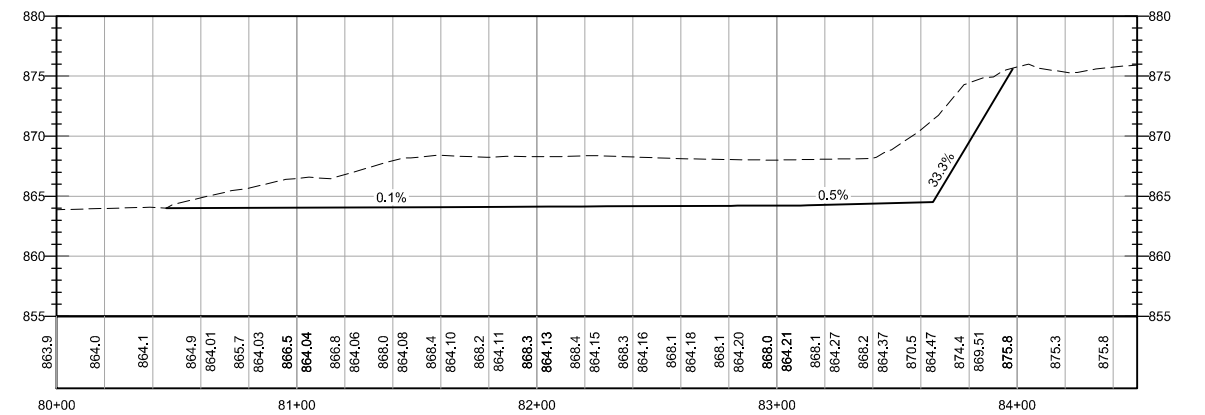
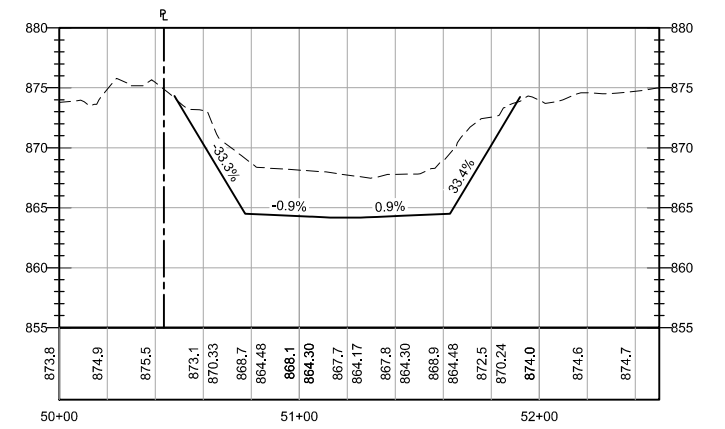
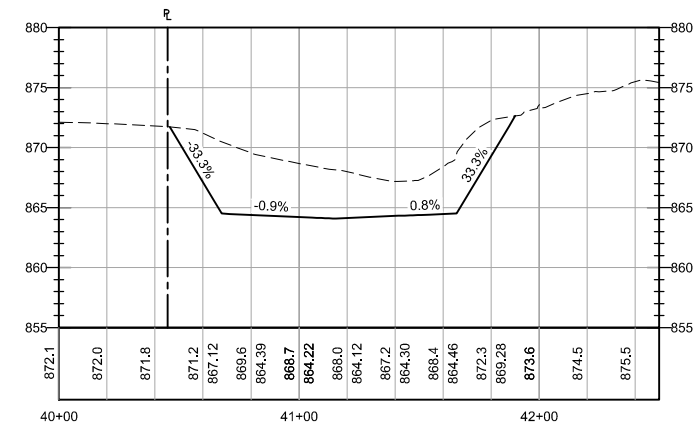
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Date	10/26/2022
Drawn	DJS2
Checked	SOR
Designed	BARR
Approved	BJL



NORTH STAR ESTATES / OWASSO BASIN LITTLE CANADA, MN
BASIN GRADING PLAN ALTERNATIVE 2 - CITY PARCEL DREDGE PROFILES

BARR PROJECT No.	
23621200.22	
CLIENT PROJECT No.	
DWG. No.	REV. No.
C1.3	-

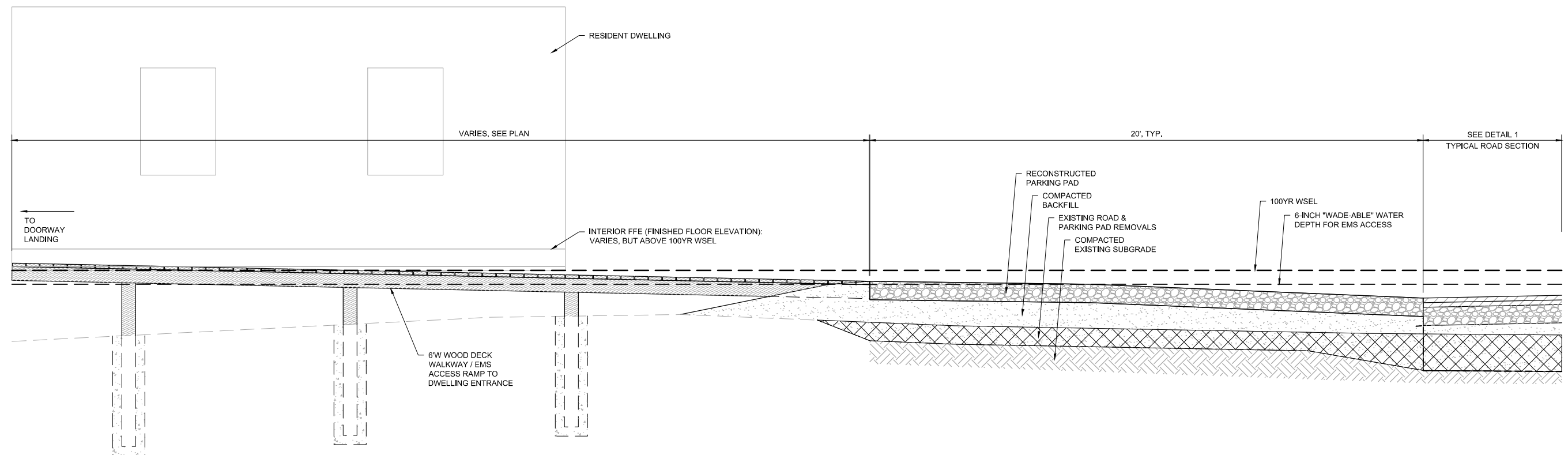




1. ALTERNATIVE 2 INCLUDES ALTERNATIVE 1 (DREDGING AND REGRADING CITY OF LITTLE CANADA PARCEL) AND DREDGING AND REGRADING OF THE EAST END OF OWASSO BASIN ON NORTH STAR ESTATES PROPERTY.
2. A/E RECOMMENDS ADDING BERMING OR SIMILAR EROSION PREVENTION BMPs TO MITIGATE FUTURE INFILLING OF BASIN FROM SURROUNDING PROPERTIES.

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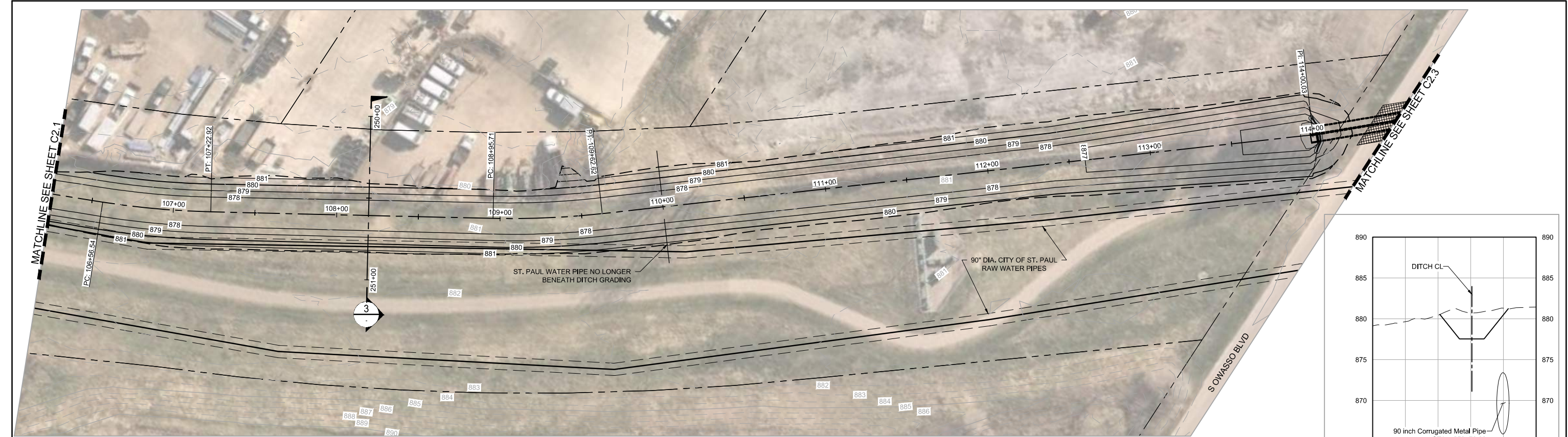
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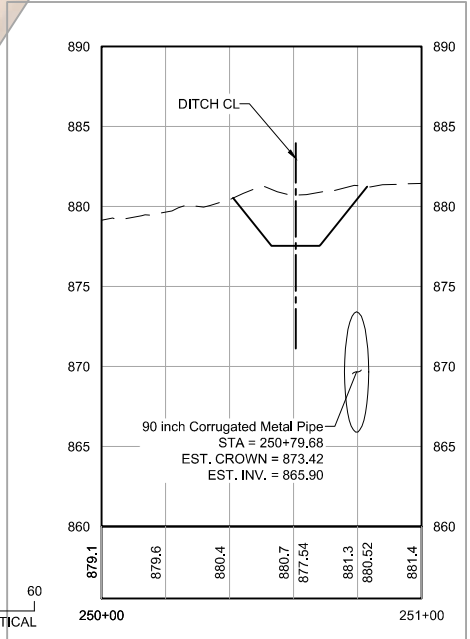
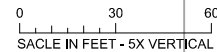
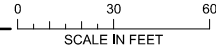




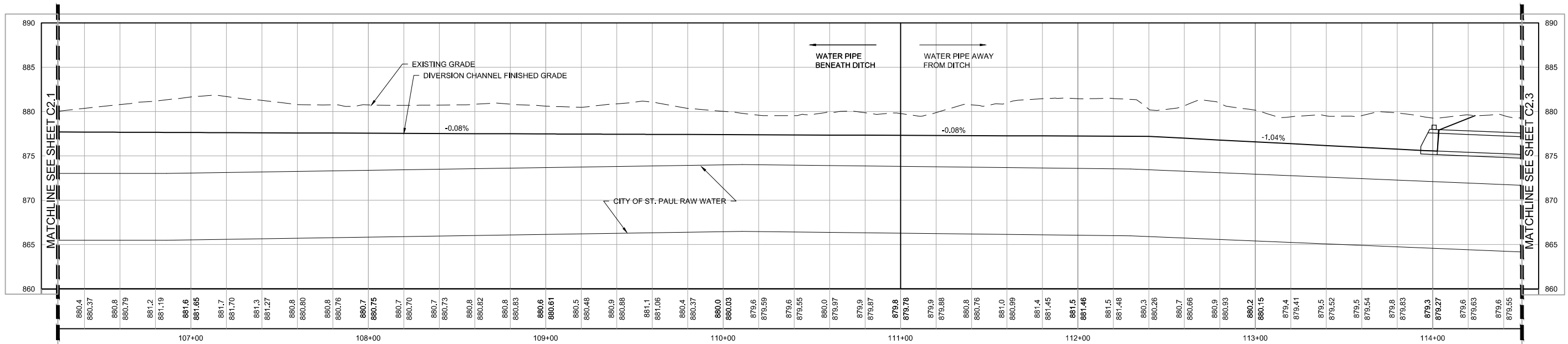
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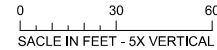
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3 SECTION: DITCH CROSS SECTION (@ 108+20.00)



2 PROFILE: WEST INDUSTRIAL PARK DIVERSION CHANNEL (106+25.00 - 114+50.00)



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NO.	BY	CHK.	APP.	DATE	REVISION DESCRIPTION

CLIENT	BARR ENGINEERING CO.
BID	4300 MARKETPOINTE DRIVE
CONSTRUCTION	Suite 200
RECORD	MINNEAPOLIS, MN 55435
RELEASED TO/FOR	A B C 0 1 2 3
DATE RELEASED	

**BARR**  
Corporate Headquarters:  
Minneapolis, Minnesota  
Ph: 1-800-632-2277

Project Office:  
BARR ENGINEERING CO.  
4300 MARKETPOINTE DRIVE  
Suite 200  
MINNEAPOLIS, MN 55435  
Ph: 1-800-632-2277  
Fax: (952) 832-2601  
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Date	10/26/2022
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Designed	BARR
Approved	BJL



NORTH STAR ESTATES / OWASSO BASIN LITTLE CANADA, MN		BARR PROJECT No. 23621200.22	
GRADING PLAN & PROFILE WEST INDUSTRIAL PARK DIVERSION CHANNEL		CLIENT PROJECT No.	
		DWG. No. C2.2	REV. No. -

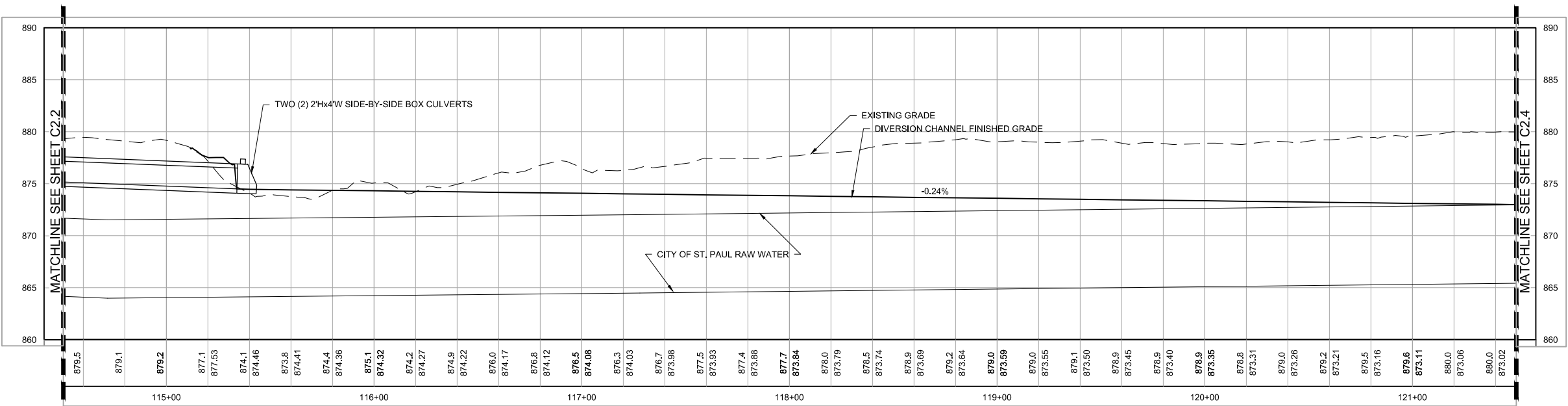




1 PLAN: WEST INDUSTRIAL PARK DIVERSION CHANNEL (114+50.00 - 121+50.00)

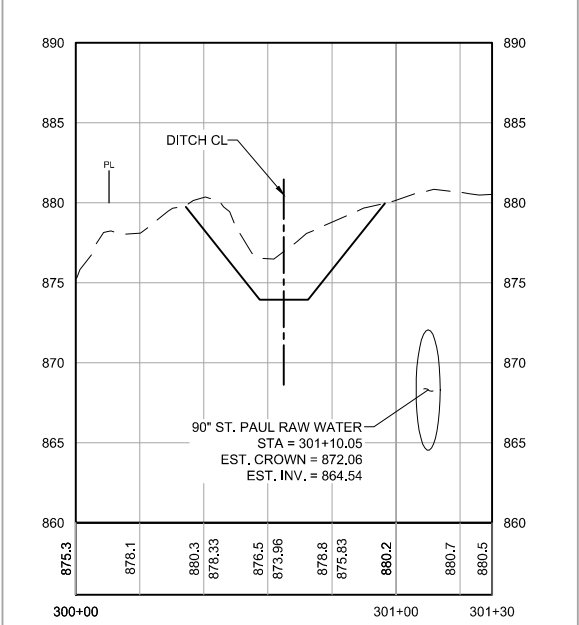
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North Arrow



2 PROFILE: WEST INDUSTRIAL PARK DIVERSION CHANNEL (106+25.00 - 114+50.00)

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3 SECTION: DITCH CROSS SECTION (@ 108+20.00)

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SCALE IN FEET - 5X VERTICAL

PRELIMINARY  
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Project Office:  
BARR ENGINEERING CO.  
4300 MARKETPOINTE DRIVE  
Suite 200  
MINNEAPOLIS, MN 55435

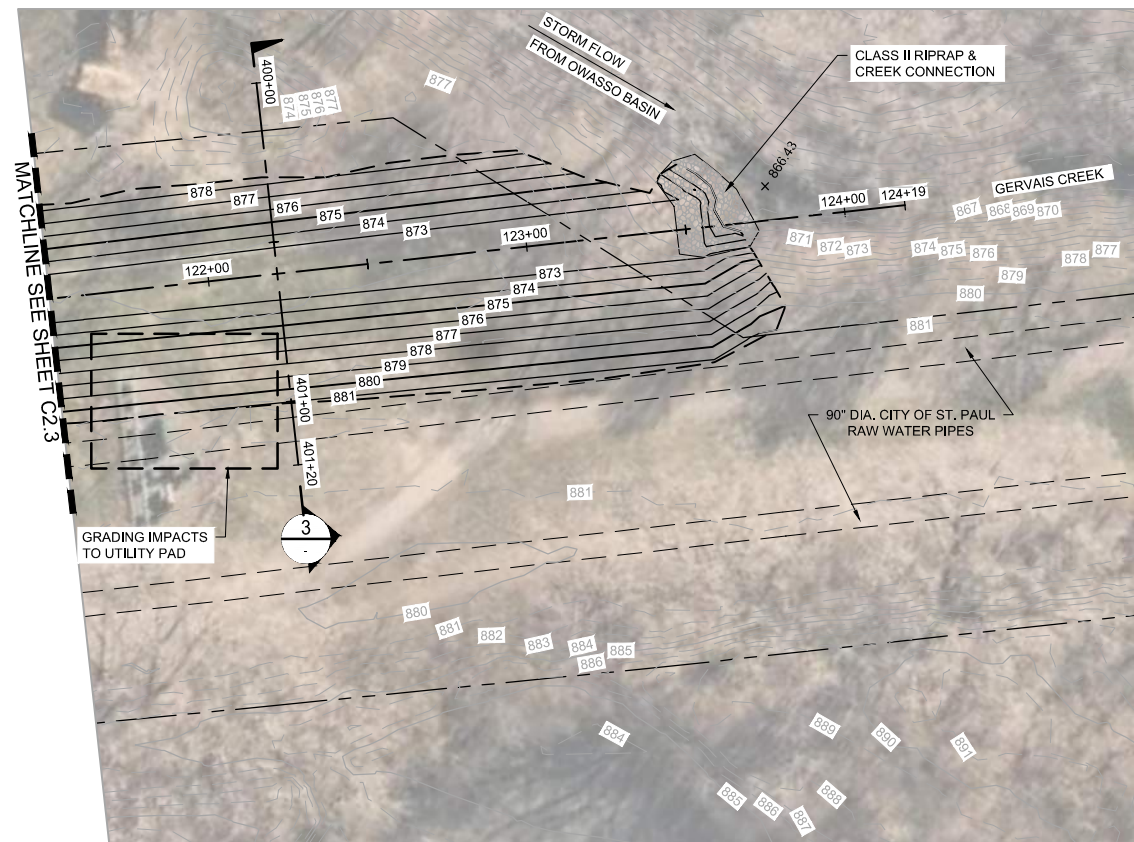
Corporate Headquarters:  
Minneapolis, Minnesota  
Ph: 1-800-632-2277

Ph: 1-800-632-2277  
Fax: (952) 832-2601  
www.barr.com

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Date	10/05/2022
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Checked	SOR
Designed	BARR
Approved	BJL



NORTH STAR ESTATES / OWASSO BASIN LITTLE CANADA, MN		BARR PROJECT No. 23621200.22	
GRADING PLAN & PROFILE WEST INDUSTRIAL PARK DIVERSION CHANNEL		CLIENT PROJECT No.	
DWG. No. C2.3	REV. No. -		



## Project work plan

Original Date: February 16, 2023

Updated: February 16, 2023

**Project:** Ames Lake Flood-Risk Reduction Feasibility Study  
**Project #** 23/62-1200.23 004

### Project team

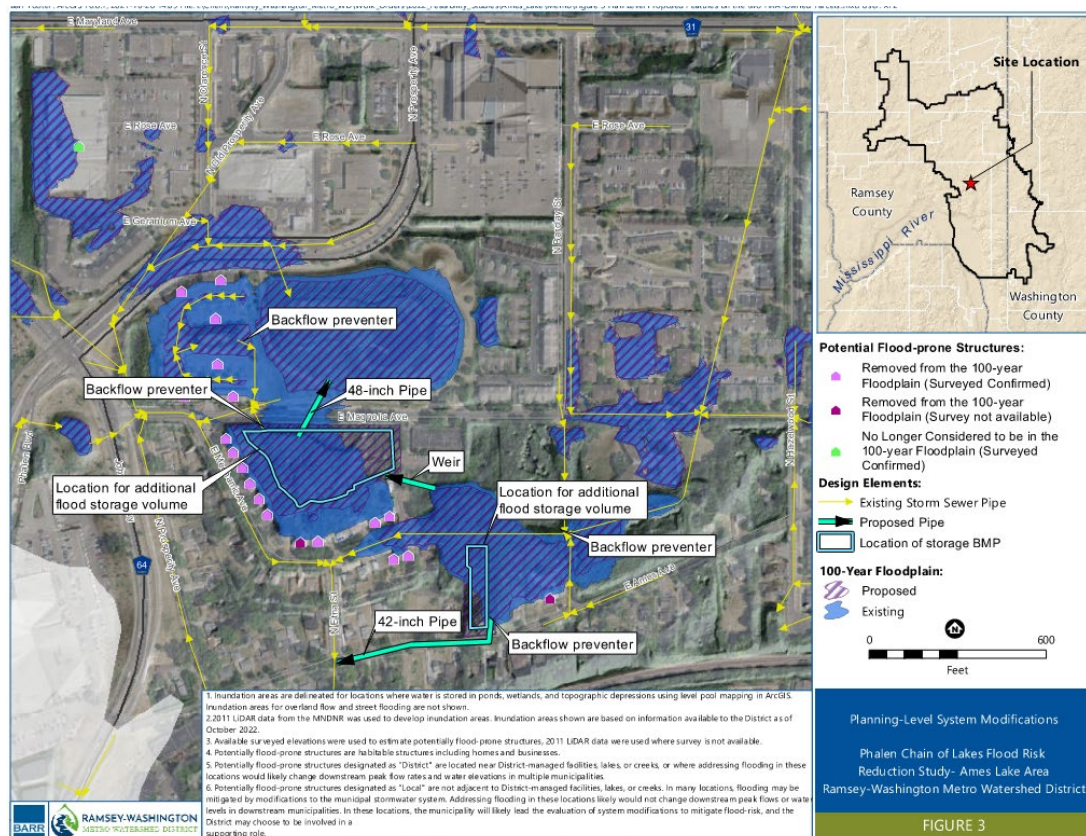
RWMWD staff: Tina Carstens (project manager)  
Barr staff: Brandon Barnes, Matt Metzger (project manager), Lulu Fang, Greg Nelson, Andrew Papke-Larson

## Scope of work

In 2022, the Ramsey-Washington Metro Watershed District (RWMWD) completed a planning study to identify feasible locations for system modifications to reduce flood-risk near Ames Lake. The 2022 study – memorandum dated November 21, 2022 – included a desktop review of open areas, including parks, vacant parcels, streets, etc., and coordination with stakeholders including the City of Saint Paul Water Resources Working Group and the Saint Paul Housing and Redevelopment Authority (HRA) to identify feasible locations. The 2022 study identified two parcels south of Ames Lake where the property owner, Saint Paul HRA, was willing to work with RWMWD to evaluate potential flood-risk reduction BMPs on the parcel.

The purpose of this project is to evaluate the feasibility of flood-risk BMPs on Saint Paul HRA property in combination with storm sewer modifications and drainage improvements to remove 26 homes and business from the 100-year floodplain. System modifications identified as part of the 2022 planning study are shown in the figure below. The project will allow the Ramsey-Washington Metro Watershed District (RWMWD) to identify feasible-cost-effective system modifications for managing flood risk within this portion of the watershed and enable the RWMWD to budget accordingly should the board choose to move forward with the final design, permitting, bidding, and construction in 2024.





The outcome of this study will identify the most cost-effective alternative as a possible next step in flood management for the area. Cost estimates will allow the RWMWD to budget accordingly should the board choose to move forward with the final design, permitting, bidding, and construction.

Barr proposes the following tasks:

**Task 1: data collection:** This task includes surveying storm sewer inverts, lake outlet elevations, and collecting limited topographic information within the two HRA parcels. We will also complete a Gopher State One Call Utility Locate, and request available information for franchise utilities that may be impacted by system modifications.

**Task 2: stakeholder engagement:** This task includes three coordination meetings with Saint Paul HRA to confirm goals for system modifications and modifications that would be allowable on HRA property. During the 2022 planning study HRA staff provided suggestions as to how system modifications could provide amenity to the neighborhood in addition to meeting flood-risk reduction goals. Staff will meet with HRA to review goals and opportunities on the vacant parcels and discuss concepts for flood-risk mitigation BMPs.

**Task 3: evaluate flood-risk reduction options:** This task includes using the RWMWD stormwater model to evaluate flood-risk reduction options. We anticipate that the modifications shown on the figure above will be evaluated as well as two concepts for providing stormwater storage on vacant HRA parcels.

**Task 4: feasibility design:** This task includes development of feasibility-level designs including grading plans for vacant parcels, opinions of probable construction cost, and identification of applicable permitting requirements. Concepts for modifications to HRA parcels will be prepared in AutoCAD, so that if RWMWD board and HRA approve the concepts, design files could be referenced for final design of system modifications.

**Task 5: documentation:** This task includes preparing a draft documentation report summarizing the methodology, alternatives, estimated costs, and permitting requirements. The report will identify the most cost-effective option evaluated that also would be supported by Saint Paul HRA (property owner). This task also includes presenting the findings of the feasibility study to the board.

## Budget

The approximate cost for Barr to complete the work outlined above is **\$40,000**.

## Schedule

The draft report and related presentation will be provided to the RWMWD board for review and comment at the July 1, 2020 board meeting. After addressing the board's comments, the report will be finalized by July 31, 2020 for use in 2021 budgeting.

## Project tracking

### Project milestones

Milestone	Estimated date	Actual date
Project start	March 2023	
Task 1: data collection	April 2023	
Task 2: stakeholder engagement	Ongoing throughout project	
Task 3: evaluate flood-risk reduction options	June 2023	
Task 4: feasibility design	August 2023	
Task 5: documentation	September 2023	

### Project budget tracking (engineering)

Milestone	Estimated budget
Task 1: data collection	\$5,500
Task 2: stakeholder engagement	\$5,500
Task 3: evaluate flood-risk reduction options	\$4,000
Task 4: feasibility design	\$20,000
Task 5: documentation	\$5,000

**Monthly updates**

Month	Budget spent (\$/%)
March 2023	
April 2023	
May 2023	
June 2023	
July 2023	

## Project Work Plan

Date: February 20, 2023

**Project:** Kohlman Lake Aquatic Plant Management Effects Study: Phase I  
Project # 23621006.00 230

### Project Team

District Staff: Bill Bartodziej  
Eric Korte  
Barr Staff: Keith Pilgrim (Project Manager)  
Erin Anderson Wenz (Principal)  
Kevin Menken (Monitoring and Data Analysis)

### Scope of Work

The water quality of Kohlman Lake has declined significantly in recent years. During this time there has been intensive aquatic plant management and it is suspected that declining water quality is linked to the loss of aquatic plants. This first phase of the project is to use existing data and a lake water quality model to see if any preliminary conclusions can be drawn about the effect of current aquatic plant management activities on water quality. This phase of the project will commence in April with the intent to develop preliminary conclusions in early May.

### Budget

Barr will complete the work outlined above on a time and expense basis for an estimated \$20,000.

Below is the project schedule:

Milestone	Estimated Date	Actual Date
Data Analysis and Modeling	April, 2023	TBD
Results Presentation	May, 2023	TBD

### Project Budget Tracking (Engineering)

Project Tasks	Estimated Budget	Spent to Date
Modeling	\$18,000	\$0.00
Results Presentation	\$2,000	\$0.00
<b>Total</b>	<b>\$20,000</b>	<b>\$0.00</b>

### Status Update



This project will begin in April.

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# Administrator's Report

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## MEMO

**TO:** Board of Managers and Staff  
**FROM:** Tina Carstens, Administrator  
**SUBJECT:** February Administrator's Report  
**DATE:** February 23, 2023

### A. Meetings Attended

Tuesday, January 31	10:00 AM	Meet with Manager Ward
Wednesday, February 1	5:00 PM	Closed Board Meeting
	6:30 PM	Regular Board Meeting
Monday, February 7	9:00 AM	MAWA Executive Meeting
	11:00 AM	Kohlman Water Quality Meeting
	1:00 PM	Kohlman Lake Study Discussion
February 8 – 13	ALL DAY	Staff Performance Reviews
Monday, February 13	3:00 PM	New Manager Orientation
Thursday, February 16	8:00 AM	Water Resources Conference Planning
Monday, February 20	ALL DAY	Holiday
Wednesday, February 22	9:30 AM	Metro Watersheds Planning
	11:30 AM	WBIF Convene Meeting

### B. Upcoming Meetings and Dates

April Board Meeting	April 5, 2023
CAC Meeting	April 11, 2023
Metro Watersheds	April 18, 2023
May Board Meeting	May 3, 2023
WaterFest	June 3, 2023
June Board Meeting	June 7, 2023
CAC Meeting	June 13, 2023
July Board Meeting	June 28, 2023

**C. Ongoing Project Updates**

Due to this short month including performing all the staff reviews, preparing for and completing new manager orientation with two new board members, and using some sick leave due to COVID, the following items are still on my ongoing project updates but not much progress can be reported this month.

**Land Acquisition and Use Policy**

**West Vadnais Lake Boundary Change**

**Board of Managers Governance Documents**

**D. Minnesota Watersheds (formally MAWD) Updates**

The biggest news this month is the launch of a new Minnesota Watersheds website. You can find the website at [mnwatershed.com](https://mnwatershed.com). On this website you can also register to have access to a Members Only section of the website. You can each do that and then have access to things like the legislative updates and an online library of materials. I am anticipating that this content will only grow and have more functionality as time progresses. Please let me know if you have any issues accessing that information.



\*\*\*\*\*

# Project and Program Status Reports

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## Memorandum

**To:** Board of Managers and Staff  
**From:** Tina Carstens and Brad Lindaman  
**Subject:** Project and Program Status Report – February 2023  
**Date:** February 23, 2023

**Note:** *The location, brief description, and current status of each project described below can be found on the [2023 RWMWD engineering services story map](#).*

### Project feasibility studies

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

*The purpose of this project is to provide information and guidance to cities throughout the district about how to protect low-lying habitable structures from flooding during the 100-year storm event. These emergency response plans address areas for which there is 1) not currently a feasible project that has been identified to protect structures or 2) a project that cannot be implemented in the near future due to logistical and/or budgeting reasons. This effort is an outcome of the Beltline resiliency study. This project will extend into 2022.*

Barr has created plan sheets for placing emergency flood risk mitigation measures and has met with the district to present the set of figures. In February, we split figures by municipality and developed a memo for each to aid in presenting to each city's staff. Any needed edits will be made to the designs/figures after their review. Barr will begin working directly with city representatives to communicate the plans to potentially impacted individuals and answer questions about implementation.

**B. Kohlman Creek flood risk reduction feasibility study (Barr project manager: Tyler Olsen; RWMWD project manager: Tina Carstens)**

*The purpose of this study is to complete a feasibility evaluation of modifications to reduce flood risk along Kohlman Creek to remove structures from the 100-year floodplain. Work includes coordination with the cities of Maplewood and North Saint Paul, evaluation of alternatives to reduce flood risk, preparation of cost estimates for each alternative, and identification of permitting requirements. This project focused primarily on areas surrounding PCU Pond and the wetland complex west of White Bear Avenue. This feasibility study is a follow-up study of flood-prone areas identified in the Beltline resiliency study.*

The Kohlman Creek flood risk reduction feasibility study focuses on concept development of the types of system improvements near PCU Pond that the city would support and that would complement the City of North Saint Paul's other ongoing efforts.

Barr has provided the district's stormwater model to the City of North Saint Paul for reference in the city's flood risk reduction study. After learning about the city's planned approach for flood risk

mitigation in these areas, Barr will begin evaluating potential flood risk mitigation options for PCU Pond and the wetland complex west of White Bear Avenue.

Next month, Barr will be completing a site survey to collect topographic information and locations of existing utilities within the area. Survey information will be used as the basis for the feasibility design for system modifications to reduce flood risk along Kohlman Creek.

**C. Kohlman Creek/Wakefield Lake diversion feasibility study (Barr project manager: Brandon Barnes; RWMWD project manager: Tina Carstens)**

*The purpose of this study is to complete a feasibility evaluation of modifications to reduce flood risk on Kohlman Creek by diverting high flows to the historic County Ditch 17. Work includes coordination with stakeholders, evaluation of alternatives to reduce flood risk, preparation of cost estimates for each alternative, and identification of permitting requirements. This feasibility study is a follow-up study of a flood-prone area identified in the Beltline resiliency study.*

This month, Barr reviewed the water quality monitoring data collected by RWMWD in the summer of 2022. The water quality data indicates that stormwater in North Saint Paul has phosphorus concentrations that are much higher than those in Wakefield Lake. A memorandum discussing the water quality measurements, existing site constraints, diversion sizes, and impacts to inundation extents is included in this month's board packet for the managers' review.

**D. County Ditch 17 improvements feasibility study (Barr project manager: Brandon Barnes; RWMWD project manager: Tina Carstens)**

*The purpose of this study is to complete a feasibility evaluation of modifications to reduce flood risk northeast of Wakefield Lake along historic County Ditch 17 to remove structures from the 100-year floodplain. Work includes coordination with the City of Maplewood, evaluation of alternatives to reduce flood risk, preparation of cost estimates for each alternative, and identification of permitting requirements. This feasibility study is a follow-up study of a flood-prone area identified in the Beltline resiliency study.*

Minimal new activity this month. As a reminder, the feasibility study was presented to the RWMWD managers at the January 2023 meeting. Later in 2023, Barr will work with the City of Maplewood to communicate flood risk to property owners.

**E. Phalen Village feasibility study (Barr project manager: Brandon Barnes; RWMWD project manager: Tina Carstens)**

*The purpose of this study is to complete a feasibility evaluation of modifications to reduce flood risk near Phalen Village north of Lake Phalen to remove structures from the 100-year floodplain. Work includes coordination with the City of Maplewood, evaluation of alternatives to reduce flood risk, preparation of cost estimates for each alternative, and identification of permitting requirements. This feasibility study is a follow-up study of a flood-prone area identified in the Beltline resiliency study.*

Minimal new activity this month. As a reminder, the feasibility study was presented to the RWMWD managers at the January 2023 meeting. In 2023, Barr and the RWMWD will work with the City of Maplewood to incorporate system modifications that mitigate existing flood risk into the city's street improvement project.

**F. Ames Lake area flood risk reduction planning study (Barr project manager: Brandon Barnes; RWMWD project manager: Tina Carstens)**

*The purpose is to complete a planning-level evaluation of modifications to reduce flood risk near Ames Lake, supported by the City of Saint Paul. Work includes coordination discussions with Saint Paul; review of potential pipe alignments, land acquisition costs, utility conflicts, and permitting issues; and related design. If the planning study identifies projects that impact regional drainage, a feasibility study will be completed in 2023. This planning study is a follow-up study that was identified in the Beltline resiliency study.*

The study was presented to the RWMWD managers at the January 2023 board meeting. The scope summary for the next phase of work, which includes a detailed feasibility study and additional coordination with the Saint Paul Housing and Redevelopment Authority, is included in this month's board packet for the managers' review.

**G. Owasso Basin area/North Star Estates improvements (Barr project manager: Sam Redinger; RWMWD project manager: Tina Carstens)**

*The purpose of this study is to evaluate the benefit-cost of flood risk reduction strategies in the Owasso Basin/North Star Estates area by reviewing potential pipe and berm alignments, land acquisition costs, utility conflicts, permitting issues, and related design as well as construction and long-term maintenance costs associated with each alternative that achieves the project objective of removing habitable structures from the floodplain in this area. Stakeholder outreach with the City of Little Canada is an important part of this effort. This study is a continuation of the Owasso Basin bypass study, which laid out several phases of implementation and areas of further study.*

Barr drafted a technical memorandum to summarize the flood risk reduction alternatives evaluated in and around North Star Estates and Owasso Basin. The memorandum is included in this month's board packet for RWMWD manager review. On January 11, 2023, Barr and the RWMWD presented the information in the draft memo to the City of Little Canada at the city's January council workshop meeting. The council was supportive of the efforts and appreciated the information. The memo will serve as the basis for the preliminary design of improvements to the area.

**H. Double Driveway Pond optimization study (Barr project manager: Tyler Olsen; RWMWD project manager: Tina Carstens)**

*The purpose of this study is to evaluate the benefit-cost of water quality improvements in Double Driveway Pond in the Fish Creek subwatershed. These improvements will be targeted at sediment reduction strategies that will benefit downstream Fish Creek, which is considered impaired by excess sediment. An important part of this study is tying strategies to the findings of a current Department of Agriculture study (currently under review) that is assessing the water quality of runoff from upstream areas.*

Last period, Barr reviewed the erosion-inventory results and kicked off the conceptual-design phase of the project. Additionally, Barr staff met to discuss upland restoration goals for Double Driveway Pond. This period, Barr staff will continue to develop concepts for the tributary-creek restoration. Barr staff will also meet with RWMWD natural resources staff to discuss restoration goals for the entire tributary corridor from the Bailey Nursery property to Fish Creek.



The Bailey Nursery team recently informed us that they would no longer be dredging Double Driveway Pond in 2023, delaying the work until 2024 due to laboratory analysis delays. Barr will continue to coordinate with the Bailey Nursery team.

**I. Carver Ponds improvements study (Barr project manager: Tyler Olsen; RWMWD project manager: Tina Carstens)**

*The purpose of this study is to characterize the water quality in the Carver Ponds in the Fish Creek subwatershed and to evaluate the benefit-cost of water quality improvements to the ponds. These improvements will be targeted at internal loading of nutrients in the pond, as well as potential external sediment and nutrient loading. The goal will be to inform design solutions to be implemented in the ponds.*

There was no new activity this period. Barr will work with the RWMWD to determine monitoring needs in 2023.

**J. Evaluation of compliance with South Metro Mississippi River total suspended solids (TSS) total maximum daily load (TMDL) (Barr project manager: Tyler Olsen; RWMWD project managers: Eric Korte, Nicole Soderholm)**

*The purpose of this study is to evaluate the RWMWD's compliance with the South Metro Mississippi River TSS TMDL. As a regulated municipal separate storm sewer system (MS4), the district is required to meet the waste load allocations (WLA) of 154 pounds of TSS per acre per year. The WLA is applicable to the RWMWD for the Saint Paul Beltline Interceptor and its contributing drainage area, as the district owns and operates the infrastructure.*

The MPCA announced that, due to an update with its reporting system, no reporting will be required in 2023. Barr will continue to monitor reporting requirements for 2024.

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

*The purpose of this project is to evaluate system-scale modifications to reduce flood risk within the portion of the RWMWD that was not evaluated as part of the Beltline resiliency evaluation. This portion of the watershed includes the Tanners Lake, Battle Creek Lake, Battle Creek, Carver Lake, Fish Creek, and Snake Creek subwatersheds. The evaluation will identify modifications to the drainage system to reduce flood risk to habitable structures located within the 100-year floodplain of District-managed water bodies, including evaluating actively managing outlet control structures on Tanners Lake, Battle Creek Lake, and Carver Lake. This evaluation will allow RWMWD to identify potential system-wide strategies for mitigating flood risk that are consistent with the portion of the district that is tributary to the Beltline, which was studied as part of the Beltline resiliency evaluation.*

This month, Barr staff began organizing GIS files and survey information for potentially flood-prone structures in the Tanners Lake, Battle Creek Lake, Battle Creek, Carver Lake, Fish Creek, and Snake Creek subwatersheds. GIS files will be reviewed to identify the lowest structure adjacent to each District-managed water body and previous district project in these areas. Next month, staff will begin evaluating potential system modifications to reduce flood risk and remove habitable structures from the floodplain. The study is anticipated to continue throughout 2023.

## Research projects

### **L. Kohlman Lake aquatic plants and nutrients: phase I and II (Barr project manager: Keith Pilgrim; RWMWD project manager: Bill Bartodziej)**

*The objective of this preliminary investigation is to determine the effect of intensive aquatic-plant management on Kohlman Lake water quality.*

The water quality of Kohlman Lake has declined in recent years. During this time there has been intensive aquatic-plant management in the lake (not conducted by RWMWD). It is suspected that declining water quality is linked to the loss of aquatic plants. This first project phase will include using existing data and modeling to see if any preliminary conclusions can be drawn about the effect of current aquatic-plant management activities on water quality. This phase of the project will commence in April, with preliminary conclusions likely developed in early May.

The second project phase will include collecting detailed data on Kohlman Lake and a control lake that has not had significant aquatic-plant management (Beaver Lake) and modeling to conclusively determine the effect of intensive aquatic-plant management on nutrient concentrations in Kohlman Lake. After determining the level of aquatic-plant management that can occur without adverse effects on water quality, management guidelines will be developed.

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

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

An interim report was completed in December. Monitoring recommendations for next year will be provided in the first quarter of 2023 in anticipation of the spring and summer sample collection efforts.

## Capital improvements

### **N. Woodbury Target store stormwater retrofit projects (Barr project manager: Katie Turpin-Nagel; RWMWD project manager: Paige Ahlborg)**

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

Throughout December and early January, Barr developed various concept-design layouts, performed minimum impact design standards (MIDS) water quality modeling, and drafted cost estimates for the stormwater retrofit options. The concept-design layouts, model results, and cost estimates were shared with Paige Ahlborg at a January 9 meeting, during which a preferred concept-design layout was selected. The details will be presented to Target Corporation the week of February 20 or 27, depending on Target staff availability.

**O. Targeted retrofit projects (Barr project manager: Marcy Bean; RWMWD project manager: Paige Ahlborg)**

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

Existing-conditions models are being updated for Roosevelt Homes, which is owned by the Saint Paul Public Housing Authority. Preliminary concepts are being developed to present the owner with options and show how projects could be phased in over time. Barr and the RWMWD anticipate coordinating with the City of Saint Paul to help inform improvements.

**P. Stewardship grant program support (Barr project manager: Marcy Bean and Michael McKinney; RWMWD project manager: Paige Ahlborg)**

*The purpose of this project is to is to a) provide BMP design and review services to cost-share applicants throughout the RWMWD on as-needed basis and b) support development of the stewardship grant program.*

Woodland Hills Church in Maplewood is partnering with Settled to build and temporarily locate “tiny homes” in an underutilized parking lot, using the space as a model for tiny-home communities. Barr has developed preliminary concepts for stormwater management alongside pavement removal in the parking lot. Preliminary stormwater calculations and spatial diagrams have been developed to help determine the potential for grant funding in 2023, pending owner review.

**Q. Lake Emily subwatershed regional BMP (Barr project manager: Leslie DellAngelo; RWMWD project manager: Paige Ahlborg)**

*The purpose of this project is to complete final design, plans, and specifications for a regional stormwater BMP in the Lake Emily subwatershed with the purpose of decreasing phosphorus loads to Lake Emily, which is deemed to be at risk of impairment from excess nutrients.*

Last period, Barr resumed final design of the Arbogast filtration BMP. The geotechnical design parameters for the structural design of the underground vault were finalized. Drafting of the contract documents for bidding and construction has begun. We communicated with City of Shoreview staff regarding the city council’s project approval process and MOU requirements and coordinated with RWMWD staff regarding required BMP-monitoring design components.

**R. Pioneer Park stormwater reuse (Barr project manager: Jennifer Koehler; RWMWD project manager: Paige Ahlborg)**

*The purpose of this project is to design and implement a stormwater reuse irrigation system in Pioneer Park to conserve groundwater and reduce phosphorus loading to downstream water bodies, in partnership with the City of Little Canada.*

Barr is setting up the project planset framework and refining system evaluations and optimization based on recent information and conversations with the city, including a meeting with District staff to discuss system optimization and some additional design considerations. Initial plan-set redlines were provided as part of development of the draft 60% plan-set. Conversations with WaterTronics to define the system intake and treatment needs have begun. City staff will provide RWMWD with city-standard plates that should be incorporated into the final design. The joint wetland application is being finalized based on comments from the TEP (Technical Evaluation Panel) which is made up of agency staff. A normal water-level figure was developed per their request.

## CIP project repair and maintenance

### **S. 2023 CIP maintenance and repair project (Barr project manager: Gareth Becker; RWMWD project manager: Dave Vlasin)**

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

In recent weeks, Miller Excavating has been making good progress. All pond muck-cleanout sites for the Cities of Woodbury and Little Canada have been completed. More recently, work is in-progress at both the 5<sup>th</sup> Street and 7<sup>th</sup> Street weir sites. This week, crews are preparing to mobilize for snow removal and preliminary startup work at two Ramsey County properties at Lower Afton Road and Gervais Beach while final permits are completed.

With warming temperatures and thawing conditions expected soon, Miller may complete the Tamarack Swamp/Tanners Wetland pavers in Woodbury and the rock-filter berm and slope repair at Gervais Creek in Little Canada. The final site for the project will be at Kohlman Basin near Beam Ave. The work there will be completed in early spring, likely April/May.

Progress payment application # 1 has been prepared and is included in this board packet for consideration at the March 1 meeting. This project is currently over 50 percent completed.

### **T. 2023-2025 BMP maintenance program (Barr project manager: Marcy Bean; RWMWD project manager: Paige Ahlborg)**

*The purpose of this project is to maintain the RWMWD's existing vegetated BMPs.*

Barr and the RWMWD have developed a request for qualifications (RFQ) to form a pool of qualified landscape maintenance contractors to provide maintenance services for the existing vegetated BMPs in the district. This effort was initiated in 2015 as a pilot program to support grantees and project partners with vegetation maintenance for up to two years post-construction. School-based BMPs are maintained on a longer-term basis. In 2023, 23 sites will be maintained as part of this program. The RFQ will be sent out in the beginning of March. Staff will then review qualifications submittals and bring to the board in April to approve award of the contractors selected.



## **U. Natural Resources Update – Bill Bartodziej and Matt Doneux**

### **Lake Owasso Story Map – in construction**

The NR team and several other Watershed staff are working on a GIS Story Map for Lake Owasso. So you may ask: What exactly is a “Story Map”? Here is a good summary from the ArcGIS website:

ArcGIS Story Maps is a story authoring web-based application that allows you to share your maps in the context of narrative text and other multimedia content. You can use ArcGIS Story Maps to do the following:

- Author stories with the story builder. Stories can include maps, narrative text, lists, images, videos, embedded items, and other media.
- Publish and share your stories. Published stories each have their own URL, and you can use these URLs to share your stories within your organization, to specific groups, or with everyone.
- Create and publish collections. Collections can include stories and ArcGIS web apps bundled together for easy sharing and presenting.
- Manage your stories. View and edit your stories from the **Stories** page, find stories authored by others in your organization, and add stories to your favorites list.

What we plan to do is build a story around “The Preservation and Improvement of Lake Owasso’s Water Quality.” We will highlight watershed, shoreline, and in-lake management (carp reduction) activities. Project locations will be geo-referenced through a series of maps. We will incorporate basic data charts, photos, videos, and succinct narrative text to guide citizens through the story. This is the first time that the Watershed has constructed this type of Story Map. Here are the main benefits:

1. A variety of data and resources on specific management activities are assembled in geo-referenced and logical order.
2. Water quality data will be presented in a straight-forward way, and management activities will reference water quality and ecological implications.
3. There will be additional resources (e.g., cost-share program) and clear action items available for citizens of the Watershed.
4. The Story Map will have its own URL, so we can easily share this information with individuals, citizen groups, and other government organizations.

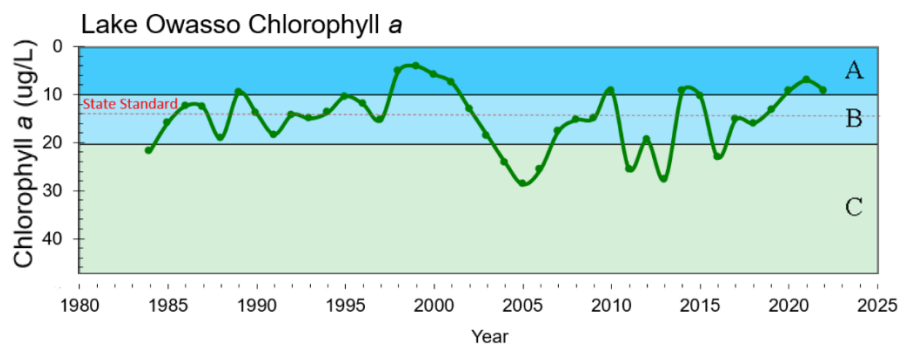
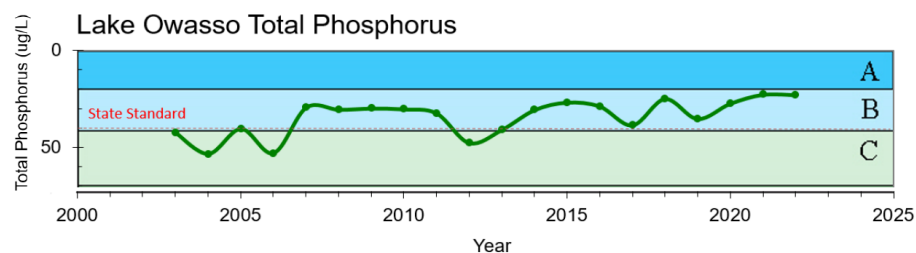
5. This format will help inform citizens through a “case study” of sorts in how the Watershed functions to help preserve and improve critical surface water resources.

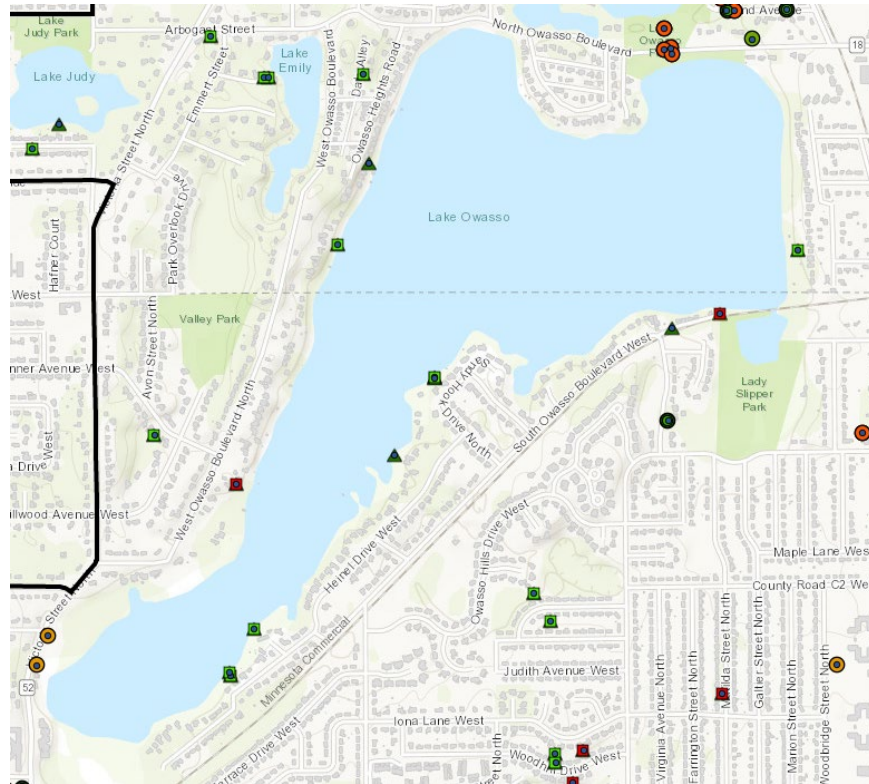
After an exhaustive search of hundreds of natural resources story maps, we came up with this gem as a template to use in formulating our Lake Owasso Story Map. Check it out if you have a minute:

#### Minerals and Fossils in Washington:

<https://wadnr.maps.arcgis.com/apps/MapJournal/index.html?appid=6a6819c35f1e4bd69a30f0da3b0473cc>

We are now in the final stages of compiling the Story Map content. We plan to have the project completed by spring. To give you a better feel for our project, below are a few examples of key elements that will be included in the Story:





**Photo 1. RWMWD BMPs in the Owasso sub-watershed.**



**Photo 3. Watershed staff capturing carp by hand netting at a barrier.**





**Photo 4. Elementary students and a RC Master Gardener planting native species on the shoreline.**



**Photo 5: The upland natural buffer is becoming well established- August 2022.**



## **V. Public Involvement and Education Program – Sage Passi**

### **Preparing Students for a Winter Water Quality Monitoring Trip to Ames Lake**



**Nick Gasho, L'Etoile du Nord 4<sup>th</sup> grade teacher projects animated images during a water quality demonstration for his class to show examples of pollution that were added to a bowl of water.**

On February 15, Sage and Tracy primed L'Etoile du Nord French Immersion's fourth grade class for a winter walking field trip to Ames Lake coming up on March 1. Lyndsey and Kyle, our water quality monitoring staff will assist the class with monitoring the lake through the ice. In our lesson, we introduced his students to some of the main causes of water pollution, demonstrated tools citizen scientists in our watershed district can use to monitor water quality and highlighted what volunteers and residents can do to help reduce run-off and salt use.

We provided an additional slide show for Nick's students on February 17 that covered the history of Ames Lake. Gasho's school is unique in being within walking distance to a lake. Nick is a pro at engaging students in adopting water bodies in our watershed and doing service learning projects. Over the years, his classes have visited Beaver Lake in the fall to clean storm drains and outlets that direct stormwater into the lake. They have explored the Beltline outlet at the south end of the lake and trekked over a mile each way during multiple winters to measure Beaver Lake's water quality. We hope this year's class comes equipped with tall boots for the walking adventure coming up March 1 at Ames Lake!

One of Nick's previous classes sent letters to homeowners in the Beaver Lake neighborhood to solicit those who were interested in having the Watershed help build a free rain garden in their yard. At his school's previous campus Nick's 4<sup>th</sup> grade class built a rain garden and helped with a hillside erosion project. His classes have partnered with fifth grade classes to visit Ames Lake multiple times to monitor and help clean up pollution around the lake. A number of years ago his class helped cut down willow trees over taking the waters' edge at Ames Lake. This fall they helped plant native pollinator plants at the Boys and Girls Club near their school this fall. They are planning to be involved in the Wilderness in the City pollinator garden planting in the spring at Battle Creek Regional Park.

## Seed Planting Indoors in Motion at Multiple Schools

Two classes at L'Etoile du Nord are growing seedlings in their science classroom taught by science teacher, Henriette Bissoy. Four Ramsey County Master Gardeners and RWMWD staff assisted her classrooms with planting stratified seeds on February 17. These seedlings will be grown under lights and then given away on June 3 at WaterFest. They may also be used in other projects around the Watershed District including the Boys and Girls Club and Farnsworth gardens.



We also completed the planting of native seeds indoors at Hazel Park Academy with the eighth grade Avid science class on February 15 with the help of three Master Gardeners and two fifth grade classes at American Indian Magnet on February 16 with four other Master Gardeners.

We will complete plantings like these with nine Weaver and Lionsgate Academy classes in late February and early March. We anticipate growing about sixty flats that will multiply into many more trays when they are transplanted later this spring. Thank you to the 20 Ramsey County Master Gardeners who signed up to help us with this first round of seed planting!



**Left: Students and a Ramsey County Master Gardener fill trays with soil.**  
**Right: Purple coneflower seeds planted on 2/23 sprouted in 3 days!**

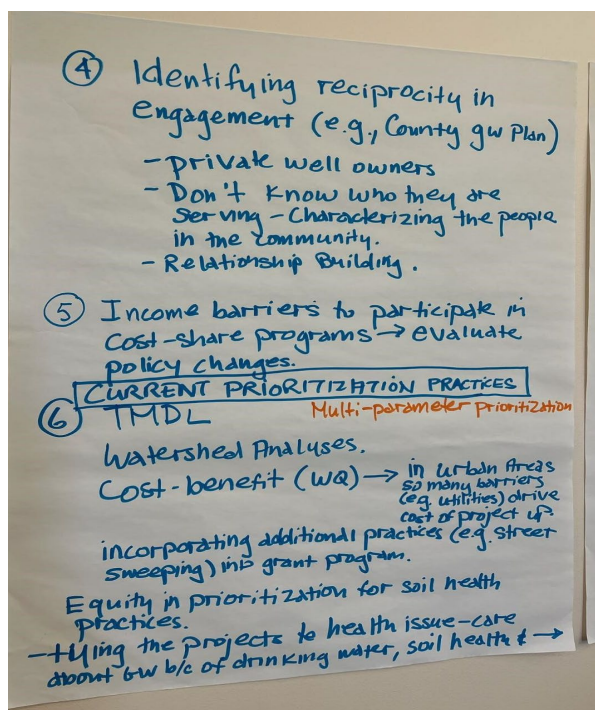
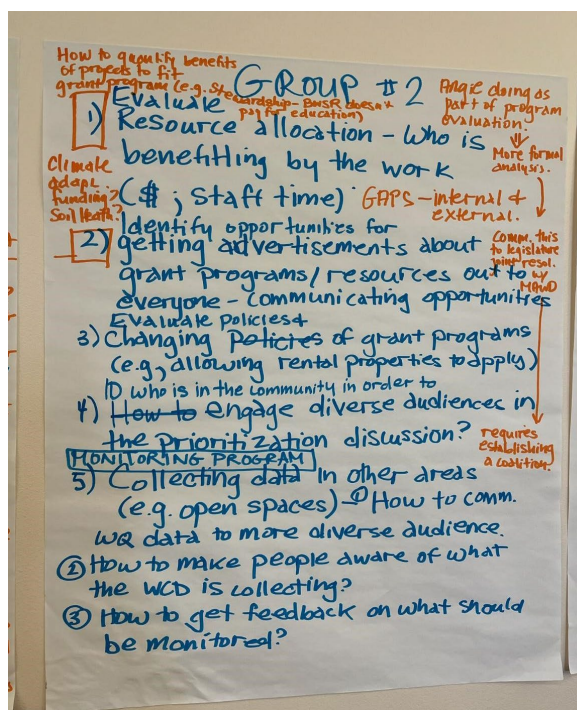


## Participation in Equity Workshop with Washington Conservation District

Sage Passi and Mary Fitzgerald were invited by Angie Hong to represent RWMWD in a four and a half hour interactive equity workshop on February 16 at Stillwater Library with built in opportunities for large and small group conversation and idea-sharing with staff and board from Washington Conservation District, representatives from different watersheds in Washington County and organizational partners. The purpose of this gathering was to help WCD identify strategies, first steps and potential collaboration opportunities to achieve three of their five-year equity goals that include:

- 1) Incorporating equity into a prioritization processes for grant applications, restoration work, etc).
- 2) Creating a mentorship program and implementing new strategies to diversify WCD's existing work force, especially for seasonal positions such as AIS as well as full time positions.
- 3) Working with organizational partners to develop an urban agriculture program that engages emerging farmers from diverse economic and cultural backgrounds.

Lynn Geschwind, the former director of Affirmative Action at MnDOT and discrimination investigator provided an overview of guidelines for equity initiatives especially related to hiring, mentorship, and targeted projects. Participants then formed groups to explore one of the three goals and each team reported back to the large group. Below are two of the 4 note pages collected by the group #2 for Goal 1 that Sage and the group discussed and brainstormed.



**To:** Board of Managers and Staff  
**From:** Tina Carstens and Brad Lindaman  
**Subject:** Project and Program Status Report February 2023  
**Date:** February 23, 2023

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## **RWMWD Water Stewards and Education Staff Team Up To Take Action on the State's Low Salt-No Salt Initiative**

This month Sage has been working with three Water Stewards, Linda Neilson, Stephanie Wang and Bette Danielson on several action steps to respond to growing concerns about chlorides in our watershed. Sage met Linda at her home to create a photo for a handout distributed to our Water Stewards team, the Citizen Advisory Committee and parents of students in Nick Gasho's fourth grade class at L'Etoile du Nord who are studying impacts of water pollution on local lakes. It will also be passed out at an upcoming event, Freeze Fest on Saturday, February 25.

We are working together on these action steps to help provide education and advocacy for the public on reducing salt use in our watershed. Sage researched some of the resources available through the Minnesota Pollution Control Agency's rollout of its new initiative, Low Salt-No Salt Minnesota piloted in conjunction with the Hennepin County Chloride Initiative and intended for state wide use and sent the link to the CAC and Water Stewards. She provided two of their handouts for CAC members at their meeting in February, mailed them to our District's Minnesota Water Stewards team and directed them to a link to a toolkit with many resources located on the website of Riley Purgatory Bluff Creek Watershed District who has been helping develop and test-drive these resources with the MPCA. Here is that link to those resources: <https://rpbcwd.org/low-salt-no-salt>

Low Salt-No Salt Minnesota is a collaboration between multiple watershed districts, watershed organizations, and cities in Hennepin County with support from the county and the Minnesota Pollution Control Agency. Water Stewards and the CAC are encouraged to draw on these resources and share them with people in their respective cities and networks. The intention is to also share them with each city's environmental commissions in our watershed and with churches where we have done Stewardship Grant projects and with other contacts throughout the district. Stephanie Wang drafted an email intended for pastors/representatives of these churches in our District, updated contacts and created a spreadsheet for those contacts with the help of Paige. Sage will send that letter via email to those contacts on February 22.

Bette Danielsen is keeping us abreast of the status of the state's liability legislation HF820/SF755 to set up a voluntary approach for property managers and snow-removal contractors to become certified in well established, science-based practices for applying salt and deicing chemicals. Those who become certified and adopt these best practices will receive limited protection from liability arising from snow and ice-related hazards. By incentivizing smart salting in this way, the bill will not only improve environmental outcomes but also help our salt applicators to become more effective, leading to improved public safety outcomes as well as cost savings. Bette will also help promote salt education at Freeze Fest.

We will also be promoting A SMART Salting Workshop for Local Leaders: Thursday, March 9, 11am-1pm (online), an interactive workshop designed for local decision-makers such as city councilmembers, county commissioners and other commission representatives.



## **W. Citizen Advisory Committee Update – Carrie Magnuson**

The Citizen Advisory Committee met on February 7<sup>th</sup> at 6:30 pm via Hybrid at RWMWD office and Zoom

In attendance were 12 CAC members, 3 staff members, and 1 BOM member (Mark). The following initiatives were discussed and further developed

- 1. 2023 Organizational Meeting Items** – Per the CAC Bylaws, leadership elections for the Chair and Vice-Chair position took place via anonymous Google Form.
  - i. Dana Larsen-Ramsay was reelected as Chair (61.5% Dana. 38.5% Stephanie)
  - ii. Stephanie Wang was reelected as Vice-Chair (69% Stephanie. 30.8% Dana)
  - iii. One write-in for Mark Gernes to be Vice-Chair if Stephanie was voted Chair
- 2. Discussion of Potential CAC Name Change** – proposal to change name from Citizen Advisory Committee to Community Advisory Committee. The group determined that a name change wasn't needed immediately and the group will revisit it next time bylaws are revised.
- 3. New Board Members** -Announcement to CAC about Benjamin Karp and Mark Gernes being appointed for 3-year term on Board of Managers (BOM). Mark Gernes announces his resignation from the CAC to focus his efforts with the Board.
- 4. CAC and Board of Managers Alignment** - Per the CAC bylaws, the group work plan should involve recommendations from the BOM. The group would like more interaction with the BOM. To accomplish this, CAC members will sign up to attend one board meeting in a year if possible.
- 5. Work Plan** - Each year, the CAC uses their time and expertise to assist several projects that help advance RWMWD projects and programs. Below are the 2023 priorities.
  - a. Rain Garden/BMP video series – on hold until Lauren returns from leave.
  - b. *East Side Stewardship Relationship Building – Earth Day cleanup being planned for April*
  - c. *Salt Use Outreach/Education – in progress. Sage is developing materials. Stephanie actively attending webinars and contacting cities about tabling at Big Truck Day events.*
  - d. Create Invasive Species Education Pieces: pending
  - e. CAC Rain Garden Clean Up Project: (annual event]
  - f. CAC/LEAP Team Planting (annual event)
  - g. Buckthorn Removal: pending
  - h. Paddle the Phalen Water Trail as a group: pending
  - i. Assist in planning and hosting WaterFest (annual)
  - j. LEAP Program nominations and subcommittee (annual)
  - k. Watershed Excellence Awards & Volunteer Recognition Dinner planning (annual)
  - l. Education Topics: Invite RWMWD staff or applicable professionals in to share knowledge. This was done heavily in 2022, so focus on this will be less in 2023.
  - m. *If there are priorities the Board of Managers wants us to focus on, please let us know.*

More details on these discussions will be available on the [CAC website](#) when meeting minutes are approved. Future meetings listed in item 1 above.

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# Board Action Log

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## Board of Managers Action Log

Wednesday, March 1, 2023

Date Added	Item	Anticipated Action Date	Means of Action	Completed
January 2023	Adopt-A-Drain Program Evaluation and Promotion	Spring/Summer 2023	Presentation and policy discussion.	
December 2022	Review of Equity Areas Definition	Spring 2023	Stewardship Grant Program Review and Board Approval	
November 2022	Alum Use Policy	Spring 2023	Proposed policy discussion.	
November 2022	Planting of Edible Plants in Restoration Areas	Winter 2022/2023	Barr new technology report	Feb 2023
July 2022	PFAS (Per- and polyfluoroalyl substances) in MN and RWMWD's role.	Winter 2022/2023	Presentation	Feb 2023
July 2022	Miyawaki Mini-Forest Assessment	Fall 2022	Barr new technology report	Oct 2022
July 2022	Alum use for internal load control along with information on alternative solutions.	Fall/Winter 2022	Memo/Presentation	Nov 2022