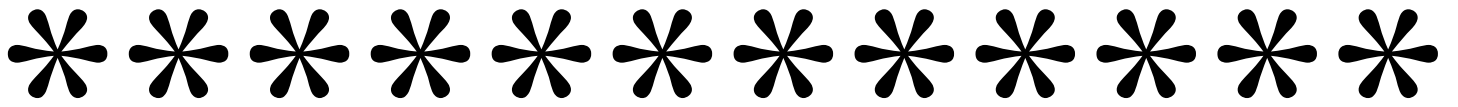




RAMSEY-WASHINGTON
METRO WATERSHED DISTRICT

March 2020 Board Packet



Agenda





Regular Board Meeting Agenda

Wednesday, March 4, 2020

6:30 P.M.

District Office Board Room
2665 Noel Drive, Little Canada, MN

1. Call to Order – 6:30 PM
2. **Approval of Agenda**
3. **Consent Agenda**
 - A. Approval of Regular Meeting Minutes February 5, 2020
4. **Treasurer’s Report and Bill List**
5. Visitor Comments (limited to 4 minutes each)
6. Permit Program
 - A. Applications
 - i. **20-09 7th Street Townhomes, North St. Paul**
 - ii. **20-10 NSP 7th Avenue Reconstruction, North St. Paul**
 - iii. **20-11 MCES Battle Creek Interceptor Rehab, St. Paul**
 - iv. **20-12 County Road D and Greenbrier SIP, Little Canada**
 - v. **20-13 Menard’s Remodel, Maplewood**
 - B. Enforcement Action Report
7. Stewardship Grant Program
 - A. Applications - NONE
 - B. Budget Status Update
8. Presentations and Action Items
 - A. **Eastside Boys and Girls Club Project Bid Award**
 - B. **Project Update Memo and Presentation: Twin Lake Outlet and Operating Plan**
 - C. **New Project Scope: Watershed Management Plan Update Process**
9. Administrator’s Report
 - A. Meetings Attended
 - B. Upcoming Meetings and Dates
 - C. Communications and Outreach Coordinator Position Update
 - D. Board of Managers Meeting Minutes
 - E. Community Conversation: Water Management in Northern Ramsey County

- F. Comments on Beltline Resiliency Study
 - G. Governance Manual Table of Contents
 - H. Metro I-Net Joint Powers Agreement Discussion
10. Project and Program Status Reports
- A. Ongoing Project and Program Updates
 - i. Beltline Resiliency Study
 - ii. Twin Lake Flood Risk Mitigation Feasibility Study
 - iii. FEMA Flood Mapping
 - iv. Lowering of West Vadnais Lake Outlet
 - v. 500-Year Atlas 14 Modeling
 - vi. Hillcrest Golf Course
 - vii. Wetland Restoration Site Search
 - viii. Battle Creek PFAS
 - ix. 2020 Feasibility Studies Stemming from Beltline Resiliency Study
 - a. Owasso Basin Bypass Pipeline
 - b. Willow Creek Flood Damage Reduction
 - c. Ames Lake Flood Damage Reduction
 - d. West Vadnais to South I-694 Conveyance
 - x. Water Management Plan Updates
 - xi. Automated Lake Monitoring Systems
 - xii. Wakefield Park/Frost Avenue Stormwater Project
 - xiii. Targeted Retrofit Projects
 - xiv. Target Store Retrofit Projects
 - xv. Aldrich Arena Stormwater Retrofit
 - xvi. CIP Maintenance and Repair 2020 Project
 - xvii. Beltline/Battle Creek Tunnel Inspection
 - xviii. 2019 Tanners Lake Alum Facility Monitoring
 - xix. Natural Resources Program
 - xx. Education Program
11. Informational Items
12. Report of Managers
- 13. Adjourn**

Items in **bold signify that an action needs to be taken by the Board.*



Consent Agenda





**Ramsey-Washington Metro Watershed District
Minutes of Regular Board Meeting
February 5, 2020**

The Regular Meeting of February 5, 2020, was held at the District Office Board Room, 2665 Noel Drive, Little Canada, Minnesota, at 6:30 p.m.

PRESENT:

Marj Ebensteiner, President
Cliff Aichinger, Vice President
Lawrence Swope, Treasurer
Dianne Ward, Secretary
Dr. Pam Skinner, Manager

ABSENT:

ALSO PRESENT:

Tina Carstens, District Administrator
Laurann Kirschner, Attorney for District
Paige Ahlborg, Project Manager
Nicole Soderholm, Permit Inspector
Simba Blood, Natural Resources Specialist
Dave Vlasin, Water Quality Technician
Erin Anderson-Wenz, Barr Engineering
Matt Kumka, Barr Engineering
Sheena Denny, Ramsey Co Commissioners Office

Laura Lundell, Ferndale St. N, Maplewood
Sandra Hopkins, Ferndale St. N, Maplewood
Chelsa Johnson, 7th Place E, St. Paul
Cheryl LeClair-Sommer, Twin Lake, Little Canada
Alison Harwood, WSB
Bruce Copley, Crestview Addition
Nathan Warner, SHE
Stephen Mastey, Landscape Architecture

1. CALL TO ORDER

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

2. APPROVAL OF AGENDA

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

3. CONSENT AGENDA

- A. Approval of Minutes from January 8, 2020
- B. District Liability Insurance Coverage Waiver

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

Further discussion: A change to the Also Present section was noted, it should state, "Stan Martin, ~~trailer park~~ Twin Lake."

It was noted that additional discussion will occur related to the minute format later in the agenda and additional discussion was requested related to the liability insurance coverage.

Manager Aichinger withdrew his motion.

A concern was raised as to whether the Managers are covered as individuals under the liability insurance. It was explained that this action limits a claim against an individual to \$500,000 or \$1,500,000 in total, and the Managers are covered by this insurance.

Motion: Manager Aichinger moved, Manager Ward seconded, to approve the Minutes from January 8, 2020 with the noted change. Motion carried 3 - 1 (President Ebensteiner opposed).

Motion: Manager Aichinger moved, Manager Swope seconded, to approve the District Liability Insurance Coverage Waiver indicating that the District does not waive the limits. Motion carried unanimously.

4. TREASURER'S REPORT AND BILL LIST

Motion: Manager Swope moved, Manager Ward seconded, to approve the February 5, 2020, bill list as submitted. Motion carried unanimously.

5. VISITOR PRESENTATIONS

Cheryl LeClair-Sommer, Twin Lake resident, expressed concerns related to the actions that took place at the Vadnais Heights Planning Commission for the proposed Frattalone development. She referenced the petition from Mr. Martin and asked if the Board could address the procedure the District will follow, noting that she would prefer for the drainage to be free flowing.

Bruce Copley, Crestview Resident, stated that he was pleased to see two proposed actions on the agenda related to West Vadnais and Owasso Basin. He expressed concerns as to how the funding would be obtained and the timeframe for the start of construction, urging the District to begin as soon as possible. He commented that it would seem that pumping downstream now would be a cost-effective method to move some of the water and provide additional space in the lake. He referenced Item 10C, noting that he did not see adding capacity to West Vadnais Lake listed as an option, and was unsure if that was intentional.

6. PERMIT PROGRAM

A. Applications

Permit #20-03: Vadnais Sports Center Indoor Turf Facility – Vadnais Heights

Staff provided details on the proposed project noting that this would replace the collapsed dome with a permanent indoor facility. She confirmed that the project would use porous pavement, noting that an additional request appears under the stewardship grant program to assist with the cost of the above and beyond treatment.

Motion: Manager Swope moved, Manager Aichinger seconded, to approve Permit #20-03. Motion carried unanimously.

Permit #20-04: Caves Century Townhomes Water Quality Improvements – Maplewood

Staff stated that this permit is also related to the stewardship grant program request that appears later on the agenda.

The Board asked the purpose of the project and which stormwater would be collected and infiltrated. It was noted that this is a stormwater water quality project that will also protect the homes and driveways. The current landscaping is elevated higher than the driveways which causes water to pool and collect on the driveways and then discharge directly into the storm sewer system. The project will capture that water and treat it prior to discharging into the stormwater system. Additional details were provided on the ground up tire method that will be used.

Motion: Manager Swope moved, Manager Aichinger seconded, to approve Permit #20-04. Motion carried unanimously.

Permit #20-05: Frost Lake Elementary Improvements – St. Paul

Staff provided details on the school project which will use underground infiltration.

A comment was made that this will provide a decrease in impervious surface and includes a maintenance agreement.

Motion: Manager Aichinger moved, Manager Ward seconded, to approve Permit #20-05. Motion carried unanimously.

Permit #20-06: Johnson Parkway Trail – St. Paul

Staff stated that this city project includes a long length of trail that will run parallel to Johnson Parkway. It was noted that an infiltration trench will be used to meet the volume standard and it was explained that the project meets the retention requirements and the trench proposed meets the linear cost cap.

Motion: Manager Swope moved, Manager Aichinger seconded, to approve Permit #20-06. Motion carried unanimously.

Permit #20-07: John Glenn Middle School Addition – Maplewood

Staff stated that this school project will also meet the District requirements with underground treatment.

A concern was expressed with the trend in using underground treatment and the impact that could eventually have on the amount of impervious surface compared to pervious surface. It was explained that the 12 member cities have ordinances that place a limit on the percentage of impervious surface that a site is able to have and therefore the District has chosen not to enact its own requirement as long as the other requirements (volume, rate, retention, etc.) can be met. A concern was expressed related to the ecosystem, specifically the plants and animals that live within the water system and the impact that the trend in underground treatment could have on that ecosystem. It was noted that the District cannot dictate land use as that falls to the municipality but attempts to address natural habitat in other ways.

Motion: Manager Aichinger moved, Manager Swope seconded, to approve Permit #20-07. Motion carried unanimously.

Permit #20-08: Meadowood Villas – Woodbury

Staff presented the proposed project that would protect proposed homes.

Motion: Manager Swope moved, Manager Skinner seconded, to approve Permit #20-08. Motion carried unanimously.

Permit #19-21: WCA Gold Line Wetland Replacement Plan

Staff provided details on the Metro Transit request to approve the wetland replacement plan for the Gold Line project. It was noted that Metro Transit is at about 30 percent design plans and therefore this is a conservative plan for the wetland replacement.

The Board noted that it appears that the applicant made efforts to minimize the impacts where possible. This is only for the wetland replacement and therefore the District will review the stormwater treatment plans once the project is further along in the design process. A question was raised as to whether the District is still looking for opportunities to create or restore wetlands and it was noted that the District has been working on the wetland restoration search which will be further reviewed by the Board at a future workshop.

Motion: Manager Swope moved, Manager Aichinger seconded, to approve Permit #19-21. Motion carried unanimously.

B. Monthly Enforcement Report

During January zero notices were sent.

7. STEWARDSHIP GRANT PROGRAM

A. Applications

Permit #20-01 CS: Finucane – Habitat Restoration

Motion: Manager Aichinger moved, Manager Ward seconded, to approve Permit #20-01 CS. Motion carried unanimously.

Permit #20-02 CS: Hammes – Habitat Restoration and Rain Garden

Motion: Manager Ward moved, Manager Swope seconded, to approve Permit #20-02 CS. Motion carried unanimously.

Permit #20-03 CS: Caves Century – Underground Treatment

Motion: Manager Aichinger moved, Manager Swope seconded, to approve Permit #20-03 CS. Motion carried unanimously.

Permit #20-04 CS: Vadnais Sports Center Turf Facility – Porous Parking

A comment was made that the cost seems high for 15 parking stalls. It was explained that the 15 stalls will be provided through the grant program and the applicant will fund an additional 11 stalls as part of the permit approved earlier on the agenda. Staff confirmed that the cost falls within the allowed range for the cost per pound of phosphorus removal.

Motion: Manager Skinner moved, Manager Swope seconded, to approve Permit #20-04 CS. Motion carried unanimously.

B. Budget Status Update

No comments.

8. ACTION ITEMS

A. Eastside Boys and Girls Club Accept Plans and Solicit Bids

Staff stated that this project arose through the District's targeted retrofit program and was highlighted on the bus tour in 2018.

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

9. ADMINISTRATOR'S REPORT

A. Meetings Attended

No comments.

B. Upcoming Meetings and Dates

Staff reviewed some of the upcoming meetings.

C. Administrator's Performance Review

Staff asked the Board to fill out the calendar that was distributed prior to the meeting with available dates in order to schedule a time to complete the performance review and the wetlands special meeting. It was the consensus of the Board to complete the performance review in February on the 26th or 27th.

D. Wetlands Special Meeting

It was the consensus of the Board to hold the wetlands special meeting in late April or in May, with the date to be determined.

E. Communications and Outreach Coordinator Position Update

Over 200 applications have been received, with about 10 percent of the applications seeming like a good fit for interviews.

F. Petition to Repair Ditch 16

A copy of the letter drafted by legal counsel was sent to Mr. Martin and distributed to the Board for their information.

G. Board of Managers Meeting Minutes

The Board discussed minute content and formatting, specifically whether the formatting should continue to provide full detail or be changed to follow the minimum requirements for minutes. Additional information was provided as to the issue of legal liability. Input was received as to whether it would be helpful to remove the names and simply highlight the topics that were discussed related to the discussion item. Additional input was received from those that prefer the current format of more detailed minutes. It was noted that the meetings are also audio recorded and archived and that recording is available to the public if they make that request.

It was the consensus of the Board that the formatting should be changed to not include names in the discussion, to be a shorter summary of the discussion, and as required include any actions taken.

H. Battle Creek PFAS Update

Information was provided in the packet regarding the discovery of PFAS in Battle Creek. A presentation will be provided to the Board at a future meeting to provide additional information. The Board requested additional information on the other materials in the barrels that could have leached out.

I. Stormwater Impact Fund Information

Information was provided in the packet related to the stormwater impact fund and how some of those funds will be used in 2020.

10. PROJECT AND PROGRAM STATUS REPORTS

A. Project Update Memo: Target Stores: North St. Paul and East St. Paul

Staff provided background information on how the District connected with Target to discuss potential projects for their three sites within the District boundaries. Target was interested in amending parking lots at two of the locations, going above the District requirements. The two parking lots are large with intermittent low points where drainage collects. All options were reviewed in order to find the most cost-effective option. The North St. Paul concept was presented which includes two tree trenches, one large rain garden, and an underground structure. A cost estimate was provided, and it was noted that the cost per pound of phosphorus removal would be on the higher end of the allowed range. It was explained that it can be difficult to find opportunities such as this in developed urban areas and the cost to retrofit sites of this nature can have a higher cost. The plan is still in concept design and both parties are working together to find the most cost-effective manner to move forward. It was stated that an agreement would be developed that would require Target to take over ongoing maintenance and that Target would be responsible for replacement elements that may come forward in the future; using the replacement that occurred at Maplewood Mall as an example. The Beltline Resiliency Study shows this site as an opportunity to hold back water before it enters the system and therefore this project would be an additional priority for the District. The East St. Paul concept was reviewed with a tree trench, three small rain gardens, and removal of some parking stalls. The cost estimate for this project was also provided. It was noted that that these two projects could use funds from the opportunity fund, targeted retrofit fund, and stormwater impact fund.

It was the consensus of the Board to direct staff to continue to work with Target to modify the design and engineer's estimates for these two projects. It was noted that this would be on schedule to appear in front of the Board again in May with construction to be completed in 2020.

B. New Project Scope Summaries

- i. Ames Lake Flood Risk Improvements Feasibility
- ii. Keller Channel and Phalen Outlet
- iii. Owasso Basin Bypass Feasibility
- iv. West Vadnais to South of 694 Conveyance Feasibility
- v. Willow Creek Flood Risk Improvements Feasibility

These feasibility studies will move forward so that potential project costs could be available in time for the budgeting discussions in order to plan appropriately. It was noted that these areas were identified as the highest risk and each feasibility study will identify potential projects for those areas. It was explained in more detail as to how the District has begun to budget for some of these projects and the timeline that would be necessary to complete the feasibility studies and if it is decided to proceed with a specific project, additional project scope and plans would need to be developed.

C. Ongoing Project and Program Updates

- i. Beltline Resiliency Study

A document was distributed that includes the comments received on the Beltline Resiliency Study for the Board to review.

- ii. Twin Lake Flood Risk Mitigation Feasibility Study

Staff stated that there have been comments related to whether or not to install a gate. A presentation will be provided to the Board at the next meeting that will provide information on the different options. It was noted that some of the concerns from residents have been related to the potential Frattalone development and it was suggested that the staff presentation provide input on the potential impact, or lack thereof, from that project.

- iii. FEMA Flood Mapping
- iv. West Vadnais Lakes Outlet Permitting

Staff provided a presentation on the possible effect that could be gained by pumping water from West Vadnais during the winter months until snow melt begins, which would be limited to 5 CFS due to MnDOT's requirements. Staff reviewed some of the assumptions that were used for this modeling and explained that the results would depend upon the weather that occurs this year. It was noted that the model shows that if the pumping is done for the allowed timeframe, there would be an effect for a short period, but the elevation would return by May and would include times when the system would overflow. Some members of the Board commented that decreasing the water level would assist with the snow melt while others commented that it would seem to be a waste of money to pump the water only to have it return a short while later. It was noted that the feasibility studies will be important in determining if this would be a helpful action in a more long term solution.

Additional details were provided on the potential lowering of the outlet and the benefit that could be provided. Staff stated that while the overflow cannot be eliminated, the number of times that occurs could be decreased. It would be the decision of the Board as to whether that would be helpful.

The Board discussed the possible pumping of West Vadnais. A comment was made that the pumping would seem to be an effort that would not provide a realized benefit to either West Vadnais or Grass Lake and the focus should instead be on the lowering of the outlet.

Motion: Manager Aichinger moved, Manager Skinner seconded, to not pursue off season pumping of West Vadnais Lake in the short-term.

Further discussion: A comment was made that a Manager would like to pursue pumping but if that is not done, they would like to keep the idea on the table for the future. Another Manager was not convinced that the elevation of the lake would bounce back that quickly after pumping. The suggestion was made that perhaps this occur as an experiment. It was stated that while the modeling was based on assumptions, different conditions could occur that would reduce the benefit even further. The question was called for vote.

Motion carried 3 – 2 (Swope and Ward opposed).

- v. 500-Year Atlas 14 Modeling
- vi. Hillcrest Golf Course
- vii. Automated Lake Monitoring Systems
- viii. Iron Aggregate Pond Research Project
- ix. Targeted Retrofit Projects
- x. CIP Maintenance and Repair 2020 Project
- xi. Beltline/Battle Creek Tunnel Five-Year Inspection
- xii. Natural Resources Program
- xiii. Education Program

11. INFORMATIONAL ITEMS

No comments.

12. REPORTS OF MANAGERS

Ramsey County recently held a well-attended meeting for the purpose of gathering public input on the Snail – Vadnais Regional Park master plan. St. Paul will be holding a public meeting to gather input on Hillcrest Golf Course.

13. ADJOURN

Motion: Manager Skinner moved, Manager Ward seconded, to adjourn the meeting at 9:33 p.m. Motion carried unanimously.

Respectfully submitted,

Dianne Ward, Secretary



Bill List



RWMWD BUDGET STATUS REPORT
 Administrative & Program Budget
 Fiscal Year 2020
 2/29/2020

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	-	-	-	\$8,500.00	0.00%
	Manager expenses	4360	3,500.00	-	-	-	3,500.00	0.00%
	Committee/Bd Mtg. Exp.	4365	3,500.00	-	-	254.50	3,245.50	7.27%
Sub-Total: Managers/Committees:			\$15,500.00	\$0.00	\$0.00	\$254.50	\$15,245.50	1.64%
Employees	Staff salary/taxes/benefits	4010	1,450,000.00	-	105,332.46	212,705.53	1,237,294.47	14.67%
	Employee expenses	4020	10,000.00	-	129.08	318.54	9,681.46	3.19%
	District training & education	4350	25,000.00	-	755.04	755.04	24,244.96	3.02%
Sub-Total: Employees:			\$1,485,000.00	\$0.00	\$106,216.58	\$213,779.11	\$1,271,220.89	14.40%
Administration/ Office	GIS system maint. & equip.	4170	15,000.00	-	987.02	987.02	14,012.98	6.58%
	Data Base/GIS Maintenance	4171	5,000.00	-	-	-	5,000.00	0.00%
	Equipment maintenance	4305	3,000.00	-	-	-	3,000.00	0.00%
	Telephone	4310	8,000.00	-	57.48	114.96	7,885.04	1.44%
	Office supplies	4320	5,000.00	-	253.19	500.71	4,499.29	10.01%
	IT/Internet/Web Site/Software Lic.	4325	55,000.00	-	4,296.31	8,459.31	46,540.69	15.38%
	Postage	4330	5,000.00	-	-	-	5,000.00	0.00%
	Printing/copying	4335	8,000.00	-	294.00	294.00	7,706.00	3.68%
	Dues & publications	4338	11,000.00	-	-	7,500.00	3,500.00	68.18%
	Janitorial/Trash Service	4341	15,000.00	-	-	-	15,000.00	0.00%
	Utilities/Bldg.Contracts	4342	20,000.00	-	3,731.72	4,532.53	15,467.47	22.66%
	Bldg/Site Maintenance	4343	200,000.00	-	1,231.27	1,231.27	198,768.73	0.62%
	Miscellaneous	4390	5,000.00	-	-	-	5,000.00	0.00%
	Insurance	4480	40,000.00	-	-	357.02	39,642.98	0.89%
	Office equipment	4703	150,000.00	-	-	-	150,000.00	0.00%
	Vehicle lease, maintenance	4810-40	43,000.00	-	1,241.04	1,337.29	41,662.71	3.11%
	Sub-Total: Administration/Office:			\$588,000.00	\$0.00	\$12,092.03	\$25,314.11	\$562,685.89
Consultants/ Outside Services	Auditor/Accounting	4110	60,000.00	-	3,308.54	3,700.99	56,299.01	6.17%
	Engineering-administration	4121	93,000.00	-	7,821.00	12,224.90	80,775.10	13.15%
	Engineering-permit I&E	4122	10,000.00	-	-	-	10,000.00	0.00%
	Engineering-eng. review	4123	55,000.00	-	1,506.00	4,430.00	50,570.00	8.05%
	Engineering-permit review	4124	55,000.00	-	4,894.50	7,673.00	47,327.00	13.95%
	Project Feasibility Studies	4129	570,000.00	-	8,976.00	16,631.00	553,369.00	2.92%
	Attorney-permits	4130	10,000.00	-	-	-	10,000.00	0.00%
	Attorney-general	4131	40,000.00	-	-	2,531.00	37,469.00	6.33%
	Outside Consulting Services	4160	40,000.00	-	-	-	40,000.00	0.00%
	Sub-Total: Consultants/Outside Services:			\$933,000.00	\$0.00	\$26,506.04	\$47,190.89	\$885,809.11
Programs	Educational programming	4370	60,000.00	-	2,091.62	3,560.47	56,439.53	5.93%
	Communications & Marketing	4371	25,000.00	-	1,309.68	1,309.68	23,690.32	5.24%
	Events	4372	50,000.00	-	5,253.54	5,790.54	44,209.46	11.58%
	Water QM-Engineering	4520-30	185,000.00	-	17,765.04	21,909.06	163,090.94	11.84%
	Project operations	4650	160,000.00	-	285.43	514.86	159,485.14	0.32%
	SLMP/TMDL Studies	4661	173,000.00	-	-	-	173,000.00	0.00%
	Natural Resources/Keller Creek	4670-72	140,000.00	-	293.06	575.79	139,424.21	0.41%
	Outside Prog.Support/Weed Mgmt.	4683-84	67,000.00	-	483.84	15,005.73	51,994.27	22.40%
	Research Projects	4695	95,000.00	-	-	-	95,000.00	0.00%
	Health and Safety Program	4697	3,000.00	-	-	-	3,000.00	0.00%
	NPDES Phase II	4698	10,000.00	-	-	-	10,000.00	0.00%
Sub-Total: Programs:			\$968,000.00	\$0.00	\$27,482.21	\$48,666.13	\$919,333.87	5.03%
GENERAL FUND TOTAL			\$3,989,500.00	\$0.00	\$172,296.86	\$335,204.74	\$3,654,295.26	8.40%
CIP's	CIP Project Repair & Maintenance	516	1,115,000.00	-	35,160.95	42,871.95	1,072,128.05	3.85%
	Targeted Retrofit Projects	518	1,012,000.00	-	28,659.00	47,031.30	964,968.70	4.65%
	Flood Risk Reduction Fund	520	4,000,000.00	-	31,442.82	81,826.27	3,918,173.73	2.05%
	Debt Services-96-97 Beltline/MM/Battle Creek	526	400,074.00	-	-	276,886.63	123,187.37	69.21%
	Stewardship Grant Program Fund	528-529	1,000,000.00	-	5,072.10	9,086.60	990,913.40	0.91%
	Impervious Surface Volume Reduction Opportunity	531	1,600,000.00	-	-	-	1,600,000.00	0.00%
	Wakefield Park Project	553	100,000.00	-	156.00	156.00	99,844.00	0.16%
District Office Bond Payment	585	194,885.00	-	-	120,358.21	74,526.79	61.76%	
CIP BUDGET TOTAL			\$9,421,959.00	\$0.00	\$100,490.87	\$578,216.96	\$8,843,742.04	6.14%
TOTAL BUDGET			\$13,411,459.00	\$0.00	\$272,787.73	\$913,421.70	\$12,498,037.30	6.81%

Current Fund Balances:

Fund:	Unaudited Beginning Fund Balance @ 12/31/19	Fund Transfers	Year to date Revenue	Current Month Expenses	Year to Date Expense	Unaudited Fund Balance @ 01/31/20
101 - General Fund	\$4,701,590.38	-	17,479.80	172,296.86	335,204.74	4,383,865.44
516 - CIP Project Repair & Maintenance	1,157,461.08	-	-	35,160.95	42,871.95	1,114,589.13
518 - Targeted Retrofit Projects	(41,632.60)	-	-	28,659.00	47,031.30	(88,663.90)
520 - Flood Damage Reduction Fund	2,655,296.42	-	5,927.18	31,442.82	81,826.27	2,573,397.33
526 - Debt Services-96-97 Beltline/MM/Beltline-Battle Creek Tunnel Repair	1,242,307.33	-	-	-	276,886.63	965,420.70
528/529 - Stewardship Grant Program Fund	711,695.69	-	-	5,072.10	9,086.60	702,609.09
531 - Impervious Surface Volume Reduction Opportunity	1,484,215.00	-	-	-	-	1,484,215.00
553 - Wakefield Park Project	302,000.28	-	-	156.00	156.00	301,844.28
580 - Contingency Fund	692,737.06	-	-	-	-	692,737.06
585 - Certificates of Participation	130,460.59	-	331.94	-	120,358.21	10,434.32
Total District Fund Balance	\$13,036,131.23	\$0.00	\$ 23,738.92	\$ 272,787.73	\$913,421.70	\$12,146,448.45

RWMWD BUDGET STATUS REPORT
 Administrative & Program Budget
 Fiscal Year 2019
 12/31/2019 - Updated 2/26/20

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	\$6,500.00	-	-	7,572.50	(\$1,072.50)	116.50%
	Manager expenses	4360	3,500.00	-	-	2,222.93	1,277.07	63.51%
Committees	Committee/Bd Mtg. Exp.	4365	3,500.00	-	-	3,669.07	(169.07)	104.83%
	Sub-Total: Managers/Committees:		\$13,500.00	\$0.00	\$0.00	\$13,464.50	\$35.50	99.74%
Employees	Staff salary/taxes/benefits	4010	1,385,000.00	-	-	1,334,922.07	50,077.93	96.38%
	Employee expenses	4020	10,000.00	-	-	7,910.12	2,089.88	79.10%
	District training & education	4350	25,000.00	-	-	25,221.93	(221.93)	100.89%
	Sub-Total: Employees:		\$1,420,000.00	\$0.00	\$0.00	\$1,368,054.12	\$51,945.88	96.34%
Administration/Office	GIS system maint. & equip.	4170	15,000.00	-	-	2,028.52	12,971.48	13.52%
	Data Base/GIS Maintenance	4171	5,000.00	-	-	2,210.00	2,790.00	44.20%
	Equipment maintenance	4305	3,000.00	-	-	-	3,000.00	0.00%
	Telephone	4310	8,000.00	-	-	6,442.02	1,557.98	80.53%
	Office supplies	4320	5,000.00	-	-	4,987.65	12.35	99.75%
	IT/Internet/Web Site/Software Lic.	4325	45,000.00	-	-	40,899.80	4,100.20	90.89%
	Postage	4330	10,000.00	-	-	739.86	9,260.14	7.40%
	Printing/copying	4335	8,000.00	-	-	6,002.16	1,997.84	75.03%
	Dues & publications	4338	11,000.00	-	-	10,097.00	903.00	91.79%
	Janitorial/Trash Service	4341	17,000.00	-	-	5,652.18	11,347.82	33.25%
	Utilities/Bldg.Contracts	4342	20,000.00	-	-	25,124.69	(5,124.69)	125.62%
	Bldg/Site Maintenance	4343	300,000.00	-	-	126,570.87	173,429.13	42.19%
	Miscellaneous	4390	5,000.00	-	-	541.39	4,458.61	10.83%
	Insurance	4480	35,000.00	-	-	36,121.98	(1,121.98)	103.21%
	Office equipment	4703	40,000.00	-	-	29,853.11	10,146.89	74.63%
	Vehicle lease, maintenance	4810-40	43,000.00	-	-	36,802.22	6,197.78	85.59%
	Sub-Total: Administration/Office:		\$570,000.00	\$0.00	\$0.00	\$334,073.45	\$235,926.55	58.61%
Consultants/Outside Services	Auditor/Accounting	4110	55,000.00	-	-	52,394.73	2,605.27	95.26%
	Engineering-administration	4121	93,000.00	-	-	74,260.22	18,739.78	79.85%
	Engineering-permit I&E	4122	10,000.00	-	-	3,076.94	6,923.06	30.77%
	Engineering-eng. review	4123	55,000.00	-	-	47,186.16	7,813.84	85.79%
	Engineering-permit review	4124	55,000.00	-	-	38,193.00	16,807.00	69.44%
	Project Feasibility Studies	4129	790,000.00	-	-	434,793.77	355,206.23	55.04%
	Attorney-permits	4130	10,000.00	-	-	-	10,000.00	0.00%
	Attorney-general	4131	40,000.00	-	-	31,589.00	8,411.00	78.97%
	Outside Consulting Services	4160	40,000.00	-	-	-	40,000.00	0.00%
	Sub-Total: Consultants/Outside Services:		\$1,148,000.00	\$0.00	\$0.00	\$681,493.82	\$466,506.18	59.36%
Programs	Educational programming	4370	60,000.00	-	-	16,095.77	43,904.23	26.83%
	Communications & Marketing	4371	25,000.00	-	-	6,000.98	18,999.02	24.00%
	Events	4372	50,000.00	-	-	39,444.98	10,555.02	78.89%
	Water QM-Engineering	4520-30	300,000.00	-	-	267,396.80	32,603.20	89.13%
	Project operations	4650	160,000.00	-	-	28,642.41	131,357.59	17.90%
	SLMP/TMDL Studies	4661	68,000.00	-	-	4,115.00	63,885.00	6.05%
	Natural Resources/Keller Creek	4670-72	115,000.00	-	-	123,082.65	(8,082.65)	107.03%
	Outside Prog.Support/Weed Mgmt.	4683-84	67,000.00	-	-	46,729.28	20,270.72	69.75%
	Research Projects	4695	115,000.00	-	-	59,457.09	55,542.91	51.70%
	Health and Safety Program	4697	3,000.00	-	-	1,043.48	1,956.52	34.78%
	NPDES Phase II	4698	10,000.00	-	-	-	10,000.00	0.00%
	Sub-Total: Programs:		\$973,000.00	\$0.00	\$0.00	\$592,008.44	\$380,991.56	60.84%
GENERAL FUND TOTAL			\$4,124,500.00	\$0.00	\$0.00	\$2,989,094.33	\$1,135,405.67	72.47%
CIP's	CIP Project Repair & Maintenance	516	1,120,000.00	-	-	1,075,685.66	44,314.34	96.04%
	Targeted Retrofit Projects	518	978,760.00	-	-	1,233,808.76	(255,048.76)	126.06%
	District Office Building Solar Energy Retrofit	519	-	-	-	25,762.50	-	---
	Flood Damage Reduction Fund	520	2,500,000.00	-	-	334,527.70	2,165,472.30	13.38%
	Debt Services-96-97 Beltline/MM/Battle Creek	526	399,113.00	-	-	397,342.30	1,770.70	99.56%
	Stewardship Grant Program Fund	528-529	1,250,000.00	-	-	911,526.08	338,473.92	72.92%
	Impervious Surface Volume Reduction Opportunity	531	1,500,000.00	-	-	-	1,500,000.00	0.00%
	Beltline & Battle Creek Tunnel Repair	549	-	-	-	-	-	---
	Frost/Kennard Enhanced WQ BMP	550	-	-	-	-	-	---
	Markham Pond Dredging & Aeration	551	65,000.00	-	-	39,493.45	25,506.55	60.76%
	Wakefield Park Project	553	1,100,000.00	-	-	747,285.72	352,714.28	67.94%
	Willow Pond CMAC	554	300,000.00	-	-	14,396.47	285,603.53	4.80%
	District Office Bond Payment	585	194,885.00	-	-	193,453.76	1,431.24	99.27%
CIP BUDGET TOTAL			\$9,407,758.00	-	\$0.00	\$4,973,282.40	\$4,460,238.10	52.86%
TOTAL BUDGET			\$13,532,258.00	\$0.00	\$0.00	\$7,962,376.73	\$5,569,881.27	58.84%

Current Fund Balances:

Fund:	Beginning Fund Balance @ 12/31/18	Fund Transfers	Year to date Revenue	Current Month Expenses	Year to Date Expense	Unaudited Fund Balance @ 12/31/19
101 - General Fund	\$4,464,553.28	-	3,226,131.43	-	2,989,094.33	4,701,590.38
516 - CIP Project Repair & Maintenance	951,963.00	-	1,281,183.74	-	1,075,685.66	1,157,461.08
518 - Targeted Retrofit Projects	994,725.00	-	197,451.16	-	1,233,808.76	(41,632.60)
519 - District Office Building Solar Energy Retrofit	32,805.00	(7,042.50)	-	-	25,762.50	0.00
520 - Flood Damage Reduction Fund	1,823,918.00	-	1,165,906.12	-	334,527.70	2,655,296.42
526 - Debt Services-96-97 Beltline/MM/Battle Creek Tunnel Repair	381,949.00	863,674.00	394,026.63	-	397,342.30	1,242,307.33
528/529 - Stewardship Grant Program Fund	389,152.00	-	1,234,069.77	-	911,526.08	711,695.69
531 - Impervious Surface Volume Reduction Opportunity	1,484,215.00	-	-	-	-	1,484,215.00
549 - Beltline & Battle Creek Tunnel Repair	863,674.00	(863,674.00)	-	-	-	0.00
550 - Frost/Kennard Enhanced WQ BMP	70,017.00	(70,017.00)	-	-	-	0.00
551 - Markham Pond Dredging & Aeration	110,379.00	(75,677.03)	4,791.48	-	39,493.45	0.00
553 - Wakefield Park Project	1,049,286.00	-	-	-	747,285.72	302,000.28
554 - Willow Pond CMAC	(44,588.00)	58,984.47	-	-	14,396.47	0.00
580 - Contingency Fund	598,985.00	93,752.06	-	-	-	692,737.06
585 - Certificates of Participation	131,513.00	-	192,401.35	-	193,453.76	130,460.59
Total District Fund Balance	\$13,302,546.28	\$0.00	\$ 7,695,961.68	\$	\$7,962,376.73	\$13,036,131.23

Ramsey Washington Metro Watershed Dist.
Check Register
For the Period From Feb 1, 2020 to Feb 29, 2020

Check #	Date	Payee ID	Invoice #	Payee	Description	Amount
EFT	02/01/20	met008	Mar 2020	MetLife-Group Benefits	Employee Benefits	\$503.57
EFT	02/12/20	hea002	Mar 2020	HealthPartners	Employee Benefits	11,421.64
71319V	02/03/20	int001	W19120509	Office of MN, IT Services	Telephone Expense	(57.48)
71321V	02/03/20	mel001	Dec 2019/Jan 2020	Michelle L. Melser	Employee Reimbursement	(90.19)
71345	02/03/20	int001	W19120509	Office of MN, IT Services	Telephone Expense	57.48
71346	02/03/20	mel001	Dec 2019/Jan 2020	Michelle L. Melser	Employee Reimbursement	90.19
71347	02/13/20	aws001	S1335957-20120	AWS Service Center	Utilities/Bldg.Contracts	216.05
71348	02/13/20	car003	Dec 2019	Tina Carstens	Employee Reimbursement	1,063.38
71349	02/13/20	cit002	Dec 2019	City of Maplewood	Construction-Wakefield	675,803.70
71350	02/13/20	cro001	41076211	Nutrien Ag Solutions, Inc.	Natural Resources Project	217.19
71351	02/13/20	ecs001	289981	ECSI System Integrators	Utilities/Bldg.Contracts	360.00
71352	02/13/20	gil001	189874	Gilbert Mechanical Contractors, Inc.	Bldg./Site Maintenance	4,328.52
71353	02/13/20	mid003	406046151	Roseville Midway Ford	Vehicle Expense	53.42
71354	02/13/20	nar001	IN00131443	Nardini Fire Equipment	Utilities/Bldg.Contracts	315.00
71355	02/13/20	nsp001	11590876	Xcel Energy	Construction-Flood Damage	1,362.19
71356	02/13/20	pac001	2012015130	Pace Analytical Services, Inc.	Water QM Staff	567.00
71357	02/13/20	pre003	317344223	Premium Waters, Inc.	Utilities/Bldg.Contracts	48.00
71358	02/13/20	usb005	406046151	US Bank Equipment Finance	Printing Expense	294.00
71359	02/25/20	ada002	3098472	Adam's Pest Control, Inc.	Utilities/Bldg.Contracts	79.00
71360	02/25/20	att002	X02252020	AT & T Mobility - ROC	IT/Website/Software/Water QM	80.45
71361	02/25/20	bar001	1/18-2/14/20	Barr Engineering	January/February Engineering	125,526.18
71362	02/25/20	bar004	Feb 2020	Deborah Barnes	Employee Reimbursement	45.75
71363	02/25/20	bfq001	1502391-00	BFG Supply Co., LLC	Educational Program	161.18
71364	02/25/20	bws001	MN Wetland Reg.	MN Board of Water & Soil Resources	Training & Education	40.00
71365	02/25/20	cad001	16674069	Allstream	Water QM Staff	65.18
71366	02/25/20	cit010	12316	City of White Bear Lake	GIS System Maintenance	987.02
71367	02/25/20	cit011	0228446	City of Roseville	IT/Website/Software	4,163.00
71368	02/25/20	com004	Feb 2020	Comcast	Utilities/Bldg.Contracts	67.26
71369	02/25/20	cro001	Feb 2020	Nutrien Ag Solutions, Inc.	Natural Resources Project	54.00
71370	02/25/20	don001	Feb 2020	Matthew Doneux	Employee Reimbursement	112.00
71371	02/25/20	fit002	Feb 2020	Mary Fitzgerald	Employee Reimbursement	143.00
71372	02/25/20	han008	1130	Hanna Enterprises	Utilities/Bldg.Contracts	620.00
71373	02/25/20	haw001	4660786	Hawkins, Inc.	Water QM Staff	10,220.00
71374	02/25/20	inn002	IN2854145	Innovative Office Solutions LLC	Office Supplies/Educational Program	244.46
71375	02/25/20	int001	W20010507	Office of MN, IT Services	Telephone Expense	57.48
71376	02/25/20	jna001	Woodbury Suite	JNA Holdings of Minnesota, LLC	Dev. Escrow-General	3,540.00
71377	02/25/20	kor001	Feb 2020	Eric Korte	Employee Reimbursement	181.89
71378	02/25/20	mbc001	1067	MB Consulting	Events	5,253.54
71379	02/25/20	mel001	Feb 2020	Michelle L. Melser	Employee Reimbursement	80.38
71380	02/25/20	mid003	540968	Roseville Midway Ford	Vehicle Expense	1,006.07
71381	02/25/20	nep001	Feb 2020	NCPERS Group Life Ins.	Employee Benefits	16.00
71382	02/25/20	nsp001	673743437	Xcel Energy	Utilities/Bldg.Contracts/Water QM	1,990.56
71383	02/25/20	pac001	2012015135	Pace Analytical Services, Inc.	Water QM Staff	193.00
71384	02/25/20	qwe001	Feb 2020	CenturyLink	Project Operations	229.43
71385	02/25/20	red002	150451099	Redpath & Company, Ltd	January Accounting Services	3,308.54
71386	02/25/20	sod001	Feb 2020	Nicole Soderholm	Employee Reimbursement	68.75
71387	02/25/20	tro002	20-02	Cathy Troendle	Educational Program	1,911.65
71388	02/25/20	usb002	Feb 2020	U.S. Bank	February Credit Card Expense	5,114.32
71389	02/25/20	van001	Mar 2020	Vanguard Cleaning Systems of Minnesota	Utilities/Bldg.Contracts	550.00
71390	02/25/20	vik001	3185823	Viking Industrial Center	Water QM Staff	150.60
71391	02/25/20	voy001	Feb 2020	US Bank Voyager Fleet Sys.	Vehicle Expense	181.55
71392	02/25/20	win002	5682	Windmill Strategy	Communications & Marketing	680.00
Total						\$863,675.90

Ramsey Washington Metro Watershed Dist.
Check Register
For the Period From Feb 1, 2020 to Feb 29, 2020

Check #	Date	Payee ID	Invoice #	Payee	Description	Amount
EFT	01/10/20	myp001	01/10/20	January 10th Payroll Fees	4110-101-000	248.60
EFT	01/24/20	myp001	01/24/20	January 24th Payroll Fees	4110-101-000	72.85
Dir.Dep.	02/07/20	---	Payroll Expense-Net	February 7th Payroll	4010-101-000	23,612.00
EFT	02/07/20	int002	Internal Rev.Serv.	February 7th Federal Withholding	2001-101-000	8,185.15
EFT	02/07/20	mnd001	MN Revenue	February 7th State Withholding	2003-101-000	1,469.57
EFT	02/07/20	per001	PERA	February 7th PERA	2011-101-000	5,176.86
EFT	02/07/20	emp002	Empower Retirement	Employee Def.Comp. Contributions	2016-101-000	3,029.00
EFT	02/07/20	emp002	Empower Retirement	Employee IRA Contributions	2018-101-000	425.00
Dir.Dep.	02/21/20	---	Payroll Expense-Net	February 21st Payroll	4010-101-000	27,634.15
EFT	02/21/20	int002	Internal Rev.Serv.	February 21st Federal Withholding	2001-101-000	10,020.38
EFT	02/21/20	mnd001	MN Revenue	February 21st State Withholding	2003-101-000	1,836.17
EFT	02/21/20	per001	PERA	February 21st PERA	2011-101-000	6,183.56
EFT	02/21/20	emp002	Empower Retirement	Employee Def.Comp. Contributions	2016-101-000	3,029.00
EFT	02/21/20	emp002	Empower Retirement	Employee IRA Contributions	2018-101-000	425.00
Payroll/Benefits						<u>\$91,347.29</u>
Total	Accounts Payable/Payroll/Benefits:					<u><u>\$955,023.19</u></u>

Ramsey Washington Metro Watershed Dist.
Cash Disbursements Journal
For the Period From Feb 1, 2020 - Feb 29, 2020

Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Detail
02/01/20	EFT	met003	MetLife-Group Benefits	4040-101-000	Employee Benefits-General	\$503.57	
02/12/20	EFT	hea002	HealthPartners	4040-101-000	Employee Benefits-General	11,421.64	
				2015-101-000	Employee Health-General		10,275.29
				4310-101-000	Telephone-General		1,146.35
02/03/20	71319V	int002	Office of MN, IT Services	4310-101-000	Telephone-General	(57.48)	
02/03/20	71321V	mel001	Michelle L. Melser	4040-101-000	Employee Benefits-General	(90.19)	(40.00)
				4020-101-000	Employee Expenses-General		(24.96)
				4020-101-000	Employee Expenses-General		(25.23)
02/03/20	71345	int002	Office of MN, IT Services	4310-101-000	Telephone-General	57.48	
02/03/20	71346	mel001	Michelle L. Melser	4040-101-000	Employee Benefits-General	90.19	40.00
				4020-101-000	Employee Expenses-General		24.96
				4020-101-000	Employee Expenses-General		25.23
02/13/20	71347	aws001	AWS Service Center	4342-101-000	Utilities/Bldg. Contracts	216.05	
02/13/20	71348	car003	Tina Carstens	4342-101-000	Utilities/Bldg. Contracts	1,063.38	2019
				4020-101-000	Employee Expenses-General		383.38
				4040-101-000	Employee Benefits-General		680.00
02/13/20	71349	cit002	City of Maplewood	4630-553-000	Construction-Wakefield	675,803.70	2019
02/13/20	71350	cro001	Nutrien Ag Solutions, Inc.	4670-101-000	Natural Resources Project-General	217.19	
02/13/20	71351	ecs001	ECSI System Integrators	4342-101-000	Utilities/Bldg. Contracts	360.00	
02/13/20	71352	gil001	Gilbert Mechanical Contractors, Inc.	4342-101-000	Utilities/Bldg. Contracts	4,328.52	
				4343-101-000	Bldg./Site Maintenance		3,203.02
				4343-101-000	Bldg./Site Maintenance		1,125.50
02/13/20	71353	mid003	Roseville Midway Ford	4820-101-000	Vehicle Maint.-General	53.42	
02/13/20	71354	nar001	Nardini Fire Equipment	4342-101-000	Utilities/Bldg. Contracts	315.00	
02/13/20	71355	nsp001	Xcel Energy	4630-520-000	Construction-Flood Damage	1,362.19	
02/13/20	71356	pac001	Pace Analytical Services, Inc.	4630-520-000	Construction-Flood Damage	567.00	
				4530-101-000	Water QM Staff-General		189.00
				4530-101-000	Water QM Staff-General		378.00
02/13/20	71357	pre003	Premium Waters, Inc.	4342-101-000	Utilities/Bldg. Contracts	48.00	
02/13/20	71358	usb005	US Bank Equipment Finance	4335-101-000	Printing-General	294.00	
02/25/20	71359	ada002	Adam's Pest Control, Inc.	4342-101-000	Utilities/Bldg. Contracts	79.00	
02/25/20	71360	att002	AT & T Mobility -ROC	4342-101-000	Utilities/Bldg. Contracts	80.45	
				4530-101-000	Water QM Staff-General		43.22
				4325-101-000	IT/Website/Software		37.23
02/25/20	71361	bar001	Barr Engineering	4121-101-000	Engineering Admin-General Fund	125,526.18	7,821.00
				4129-101-000	Project Feasability-General		917.00
				4129-101-000	Project Feasability-General		1,506.00
				4129-101-000	Project Feasability-General		1,159.00

Ramsey Washington Metro Watershed Dist.
Cash Disbursements Journal
For the Period From Feb 1, 2020 - Feb 29, 2020

Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Detail
				4129-101-000	Project Feasability-General		3,473.50
				4129-101-000	Project Feasability-General		1,524.00
				4129-101-000	Project Feasability-General		280.00
				4129-101-000	Project Feasability-General		280.00
				4129-101-000	Project Feasability-General		280.00
				4129-101-000	Project Feasability-General		1,062.50
				4520-101-000	Water QM-Engineering		504.00
				4520-101-000	Water QM-Engineering		520.00
				4520-101-000	Water QM-Engineering		520.00
				4520-101-000	Water QM-Engineering		650.00
				4520-101-000	Water QM-Engineering		520.00
				4520-101-000	Water QM-Engineering		1,430.00
				4124-101-000	Engineering-Flood Damage		4,894.50
				4650-101-000	Project Operatins		56.00
				4128-518-000	Engineering-School/Commer Retrofit		22,085.00
				4128-518-000	Engineering-School/Commer Retrofit		240.00
				4128-553-000	Engineering-Wakefield		156.00
				4128-518-000	Engineering-School/Commer Retrofit		4,225.00
				4128-518-000	Engineering-School/Commer Retrofit		807.50
				4128-518-000	Engineering-School/Commer Retrofit		1,301.50
				4682-529-000	Stewardship Grant Fund		5,072.10
				4128-520-000	Engineering-Flood Damage		15,754.60
				4128-520-000	Engineering-Flood Damage		13,326.03
				4128-516-000	Engineering-Maint. & Repair		564.00
				4128-516-000	Engineering-Maint. & Repair		34,596.95
02/25/20	71362	bar004	Deborah Barnes			45.75	
				4040-101-000	Employee Benefits-General		40.00
				4020-101-000	Employee Expenses-General		5.75
02/25/20	71363	bfg001	BFG Supply Co., LLC	4370-101-000	Educational Program-General	161.18	
02/25/20	71364	bws001	MN Board of Water & Soil Resources	4350-101-000	Training & Education-General	40.00	
02/25/20	71365	cad001	Allstream	4530-101-000	Water QM Staff-General	65.18	
02/25/20	71366	cit010	City of White Bear Lake	4170-101-000	GIS System Maint. & Equipment	987.02	
02/25/20	71367	cit011	City of Roseville	4325-101-000	IT/Website/Software	4,163.00	
02/25/20	71368	com004	Comcast	4342-101-000	Utilities/Bldg. Contracts	67.26	
02/25/20	71369	cro001	Nutrien Ag Solutions, Inc.	4670-101-000	Natural Resources Project-General	54.00	
02/25/20	71370	don001	Matthew Doneux			112.00	
				4040-101-000	Employee Benefits-General		82.61
				4350-101-000	Training & Education-General		20.19
				4040-101-000	Employee Benefits-General		9.20
02/25/20	71371	fit002	Mary Fitzgerald			143.00	
				4040-101-000	Employee Benefits-General		138.00

Ramsey Washington Metro Watershed Dist.
Cash Disbursements Journal
For the Period From Feb 1, 2020 - Feb 29, 2020

Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Detail
				4020-101-000	Employee Expenses-General		5.00
02/25/20	71372	han008	Hanna Enterprises	4342-101-000	Utilities/Bldg. Contracts	620.00	
02/25/20	71373	haw001	Hawkins, Inc.	4530-101-000	Water QM Staff-General	10,220.00	
02/25/20	71374	inn001	Innovative Office Solutions, LLC			244.46	
				4370-101-000	Educational Program-General		18.79
				4320-101-000	Office Supplies-General		225.67
02/25/20	71375	int001	Office of MN, IT Services	4310-101-000	Telephone-General	57.48	
02/25/20	71376	jna001	JNA Holdings of Minnesota, LLC	2024-101-000	Dev.Escrow-General	3,540.00	
02/25/20	71377	kor001	Eric Korte			181.89	
				4040-101-000	Employee Benefits-General		120.00
				4530-101-000	Water QM Staff-General		61.89
02/25/20	71378	mbc001	MB Consulting	4372-101-000	Events	5,253.54	
02/25/20	71379	mel001	Michelle L. Melser	4020-101-000	Employee Expenses-General	80.38	
02/25/20	71380	mid003	Roseville Midway Ford	4820-101-000	Vehicle Maint.-General	1,006.07	
02/25/20	71381	ncp001	NCPERS Group Life Ins.	2015-101-000	Employee Health-General	16.00	
02/25/20	71382	nsp001	Xcel Energy			1,990.56	
				4530-101-000	Utilities/Bldg. Contracts		1,476.41
				4342-101-000	Utilities/Bldg. Contracts		514.15
				4630-554-000	Construction Imp.-Willow Pond		
02/25/20	71383	pac001	Pace Analytical Services, Inc.	4530-101-000	Water QM Staff-General	193.00	
02/25/20	71384	qwe001	Century Link	4650-101-000	Project Operations-General	229.43	
02/25/20	71385	red002	Redpath & Company, Ltd.	4110-101-000	Auditor/Accounting	3,308.54	
02/25/20	71386	sod001	Nicole Soderholm			68.75	
				4040-101-000	Employee Benefits-General		40.00
				4020-101-000	Employee Expenses-General		28.75
02/25/20	71387	tro002	Cathy Troendle			1,911.65	
				4370-101-000	Educational Program-General		1,887.50
				4370-101-000	Educational Program-General		24.15
02/25/20	71388	usb002	U.S. Bancorp			5,114.32	
				4343-101-000	Bldg./Site Maintenance		40.62
				4343-101-000	Bldg./Site Maintenance		33.65
				4320-101-000	Office Supplies-General		24.84
				4325-101-000	IT/Website/Software		96.08
				4320-101-000	Office Supplies-General		2.68
				4350-101-000	Training & Education-General		264.75
				4350-101-000	Training & Education-General		125.00
				4670-101-000	Natural Resources Project-General		21.87
				4350-101-000	Training & Education-General		130.00
				4350-101-000	Training & Education-General		25.00
				4350-101-000	Training & Education-General		40.00
				4350-101-000	Training & Education-General		42.55

Ramsey Washington Metro Watershed Dist.
Cash Disbursements Journal
For the Period From Feb 1, 2020 - Feb 29, 2020

Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Detail
				4350-101-000	Training & Education-General		42.55
				4530-101-000	Water QM Staff-General		2,184.00
				4040-101-000	Employee Benefits-General		205.75
				4343-101-000	Bldg./Site Maintenance		31.50
				4350-101-000	Training & Education-General		25.00
				4040-101-000	Employee Benefits-General		35.90
				4630-520-000	Construction-Flood Damage		1,000.00
				4371-101-000	Communications & Marketing		258.00
				4371-101-000	Communications & Marketing		70.28
				4371-101-000	Communications & Marketing		300.00
				4040-101-000	Employee Benefits-General		7.95
				4040-101-000	Employee Benefits-General		104.95
				4371-101-000	Communications & Marketing		1.40
02/25/20	71389	van001	Vanguard Cleaning Systems of Minnesota	4342-101-000	Utilities/Bldg. Contracts	550.00	
02/25/20	71390	vik001	Viking Industrial Center	4530-101-000	Water QM Staff-General	150.60	
02/25/20	71391	voy001	US Bank Voyager Fleet Sys.	4830-101-000	Vehicle Fuel-General	181.55	
02/25/20	71392	win002	Windmill Strategy	4371-101-000	Communications & Marketing	680.00	
Accounts Payable Total:						<u>\$863,675.90</u>	
EFT	01/10/20	myp001	Payroll Fees	4110-101-000	January 10th Payroll Fees	248.60	
EFT	01/24/20	myp001	Payroll Fees	4110-101-000	January 24th Payroll Fees	72.85	
Dir.Dep.	02/07/20	---	Payroll Expense-Net	4010-101-000	February 7th Payroll	23,612.00	
EFT	02/07/20	int002	Internal Revenue Service	2001-101-000	February 7th Federal Withholding	8,185.15	
EFT	02/07/20	mnd001	MN Revenue	2003-101-000	February 7th State Withholding	1,469.57	
EFT	02/07/20	per001	PERA	2011-101-000	February 7th PERA	5,176.86	
EFT	02/07/20	emp002	Empower Retirement	2016-101-000	Employee Def.Comp. Contributions	3,029.00	
EFT	02/07/20	emp002	Empower Retirement	2018-101-000	Employee IRA Contributions	425.00	
Dir.Dep.	02/21/20	---	Payroll Expense-Net	4010-101-000	February 21st Payroll	27,634.15	
EFT	02/21/20	int002	Internal Revenue Service	2001-101-000	February 21st Federal Withholding	10,020.38	
EFT	02/21/20	mnd001	MN Revenue	2003-101-000	February 21st State Withholding	1,836.17	
EFT	02/21/20	per001	PERA	2011-101-000	February 21st PERA	6,183.56	
EFT	02/21/20	emp002	Empower Retirement	2016-101-000	Employee Def.Comp. Contributions	3,029.00	
EFT	02/21/20	emp002	Empower Retirement	2018-101-000	Employee IRA Contributions	425.00	
Payroll/Benefits						<u>\$91,347.29</u>	
TOTAL:						<u>\$955,023.19</u>	



**Summary of Professional Engineering Services During the Period
January 18, 2020 through February 14, 2020**

	Total Engineering Budget (2020)	Total Fees to Date (2020)	Budget Balance (2020)	Fees During Period	District Accounting Code	Plan Implementation Task Number
Engineering Administration						
General Engineering Administration	\$76,000.00	\$12,224.90	\$63,775.10	\$7,821.00	4121-101	DW-13
RWMWD Health and Safety/ERTK Program	\$2,000.00	\$0.00	\$2,000.00		4697-101	DW-13
Educational Program/Educational Forum Assistance	\$20,000.00	\$917.00	\$19,083.00	\$917.00	4129-101	DW-11
Engineering Review						
Engineering Review	\$55,000.00	\$4,430.00	\$50,570.00	\$1,506.00	4123-101	DW-13
Project Feasibility Studies						
Interim emergency response plan funds for top priority District flooding areas	\$45,000.00	\$0.00	\$45,000.00		4129-101	DW-19
Beltline Resiliency and Phalen Chain Water Level Management Study	\$217,000.00	\$163,915.37	\$53,084.63	\$1,159.00	4129-101	BELT-3
FEMA Flood Mapping Update	\$55,000.00	\$48,268.00	\$6,732.00		4129-101	DW-9
Modeling of 500-year event Atlas 14 District-wide (Climate Change Scenario) and Generation of Flood Maps for Future Outreach Efforts	\$70,000.00	\$5,493.50	\$64,506.50	\$3,473.50	4129-101	DW-19
Hillcrest Golf Course (multi-use)	\$25,000.00	\$5,501.50	\$19,498.50	\$1,524.00	4129-101	DW-6
Gold BRT planning	\$20,000.00	\$0.00	\$20,000.00		4129-101	DW-6
Owasso Basin by-pass pipeline feasibility study/prelim design (Atlas 14 #1 priority area)	\$125,000.00	\$280.00	\$124,720.00	\$280.00	4129-101	
Willow Creek flood damage reduction feasibility study (Atlas 14 - #2 priority flooding area)	\$50,000.00	\$280.00	\$49,720.00	\$280.00	4129-101	
Ames Lake area flood damage reduction feasibility study (Atlas 14 #3 priority area)	\$50,000.00	\$280.00	\$49,720.00	\$280.00	4129-101	
WVL to South of 694 (Board Request - 1/08/2020)			\$0.00		4129-101	
Battle Creek PFAS (monitoring, source ID, meetings, communications)	\$25,000.00	\$1,062.50	\$23,937.50	\$1,062.50	4129-101	
694/494/94 WQ treatment feasibility study	\$30,000.00	\$0.00	\$30,000.00		4129-101	
Subwatershed feasibility studies for At-Risk creeks (Fish Creek and Gervais Creek)	\$40,000.00	\$0.00	\$40,000.00		4129-101	
Battle Creek Lower Ravine Restoration Feasibility Study	\$25,000.00	\$0.00	\$25,000.00		4129-101	
Wetland Restoration Site Search	\$25,000.00	\$29,059.60	-\$4,059.60		4129-101	DW-1, DW-8
Contingency*	\$25,000.00	\$0.00	\$25,000.00		4129-101	
GIS Maintenance						
GIS Maintenance	\$5,000.00	\$0.00	\$5,000.00		4170-101	DW-13
Monitoring Water Quality/Project Monitoring						
Lake Water Quality Monitoring (Misc QA/QC)	\$10,000.00	\$0.00	\$10,000.00		4520-101	DW-2
Special Project BMP Monitoring and annual report development	\$25,000.00	\$532.50	\$24,467.50	\$504.00	4520-101	DW-12
Auto lake monitoring system for Grass Lake	\$20,000.00	\$19,916.61	\$83.39	\$520.00	4520-101	DW-18
Auto lake monitoring system for Owasso Lake	\$20,000.00	\$9,421.60	\$10,578.40	\$520.00	4520-101	DW-18
Auto lake monitoring system for Phalen Lake	\$20,000.00	\$8,375.50	\$11,624.50	\$650.00	4520-101	DW-18
Auto lake monitoring system for Snail Lake	\$20,000.00	\$18,751.99	\$1,248.01	\$520.00	4520-101	DW-18
Auto lake monitoring system for Wabasso Lake	\$20,000.00	\$13,298.52	\$6,701.48	\$1,430.00	4520-101	DW-18
Permit Processing, Inspection and Enforcement						
Permit Application Inspection and Enforcement	\$10,000.00	\$0.00	\$10,000.00		4122-101	DW-7
Permit Application Review	\$55,000.00	\$7,673.00	\$47,327.00	\$4,894.50	4124-101	DW-7
Lake Studies/WRPPs/TMDL Reports						
2020 Grant Applications	\$20,000.00	\$0.00	\$20,000.00		4661-101	DW-13
Tanners Flood Response Tool Model Update	\$3,000.00	\$0.00	\$3,000.00		4661-101	TaL-1
Kohlman Lake, Round Lake (LC), Beaver Lake, Battle Creek Lake, Lake Owasso, Lake Emily, Twin Lake	\$50,000.00	\$0.00	\$50,000.00		4661-101	KL-2, GC-2, WL-3, BL-3, BCL-2, LE-4, Bel-3, LO-5
Wakefield Lake internal load modeling (sediment and curlyleaf)	\$30,000.00	\$0.00	\$30,000.00		4661-101	
WMP Updates - Including Implementation Plan Updates	\$10,000.00	\$0.00	\$10,000.00		4661-101	
Prioritization of water quality projects from subwatershed feasibility studies	\$15,000.00	\$0.00	\$15,000.00		4661-101	
Contingency for Lake Studies	\$25,000.00	\$0.00	\$25,000.00		4661-101	
Research Projects						
New Technology Mini Case Studies (average 6 per year)	\$12,000.00	\$0.00	\$12,000.00		4695-101	DW-12
Kohlman Permeable Weir Test System - Implement Monitoring Plan	\$15,000.00	\$0.00	\$15,000.00		4695-101	DW-12
Project Operations						
2020 Tanners Alum Facility Monitoring	\$15,000.00	\$56.00	\$14,944.00	\$56.00	4650-101	TaL-3
Beltline Outlet and Keller Channel Operations Plans	\$30,000.00	\$0.00	\$30,000.00		4650-101	DW-9, BELT-3
Capital Improvements						
Target and Motel 6	\$197,000.00	\$35,267.30	\$161,732.70	\$22,085.00	4128-518	DW-6
Owasso County Park Stormwater Master Plan and Detailed Design: Phase 1 and Phase 2	\$20,000.00	\$0.00	\$20,000.00		4128-518	DW-6
Aldrich Arena (soils and plantings)	\$25,000.00	\$390.00	\$24,610.00	\$240.00	4128-518	DW-6, WL-1
Wakefield Park/Frost Avenue Stormwater Project	\$17,500.00	\$156.00	\$17,344.00	\$156.00	4128-553	DW-6, WL-1
Commercial Sites Retrofit Projects 2020 (Targeted Retrofits) - Target/Motel 6/Boys club	\$45,000.00	\$6,205.00	\$38,795.00	\$4,225.00	4128-518	DW-6
School Sites Retrofit Projects 2020 (Targeted Retrofits)	\$45,000.00	\$807.50	\$44,192.50	\$807.50	4128-518	DW-6
Church Sites Retrofit Projects 2020 (Targeted Retrofit)	\$45,000.00	\$1,861.50	\$43,138.50	\$1,301.50	4128-518	DW-6
BMP Incentive Fund: Gen'l BMP Design Assistance and Review (cases where Dist is approached by landowner, or landowner is not commercial, school, church).	\$75,000.00	\$9,086.60	\$65,913.40	\$5,072.10	4682-529	DW-6
Lowering West Vadnais Lake Outlet	\$50,000.00	\$27,091.25	\$22,908.75	\$15,754.60	4128-520	DW-9
Wetland Restoration (Cottage Place or other)	\$100,000.00	\$0.00	\$100,000.00		4128-529	DW-1, DW-8
Keller Channel Weir & Phalen Outlet Resiliency Modifications	\$250,000.00	\$0.00	\$250,000.00		4128-520	DW-9, BELT-3
Twin Lake Outlet Easement Acquisition, Permitting, Construction Plans	\$65,000.00	\$15,531.53	\$49,468.47	\$13,326.03	4128-520	DW-9
West Vadnais Lake Emergency Overflow - Twin Lake By-Pass (permanent structures)	\$30,000.00	\$0.00	\$30,000.00		4128-520	DW-9
CIP Project Repair & Maintenance						
Routine CIP Inspection and Unplanned Maintenance Identification	\$75,000.00	\$1,240.00	\$73,760.00	\$564.00	4128-516	DW-5
Beltline 5-year Inspection	\$100,000.00	\$33,272.45	\$66,727.55	\$31,712.95	4128-516	BELT-2
2020 CIP Maintenance and Repairs	\$150,000.00	\$6,397.50	\$143,602.50	\$2,884.00	4128-516	DW-5
2021 CIP Maintenance and Repairs (planning, bidding, and project setup)	\$30,000.00	\$0.00	\$30,000.00		4128-516	DW-5

TOTAL PAYABLE FOR PERIOD 1/18/20 - 2/14/20

\$125,526.18

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

* * * * *

Permit Program

* * * * *

Permit Application Coversheet

Date March 04, 2020

Project Name 7th Street Townhomes

Project Number 20-09

Applicant Name Doug Andrus, Andrus Built, LLC

Type of Development Residential

Property Description

This project is located at 2242 7th Street North in the City of North St. Paul. The applicant is proposing to construct townhome units with a private drive and three single family lots on 6th Street North. The total site area is 4 acres. Two filtration basins are proposed to meet stormwater treatment requirements. Pretreatment will include a sumped manhole with baffle. Filtration is being proposed due to poor soils.

Watershed District Policies or Standards Involved:

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

Water Quantity Considerations

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

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

#20-09 7th Street Townhomes



Wetlands

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

- RWMWD Boundary
- Flow Arrows
- Major Flow Arrows
- Subwatersheds
- Creeks
- Permits
- Ramsey Co Parcels

Highlighted Areas Represent Active Permit

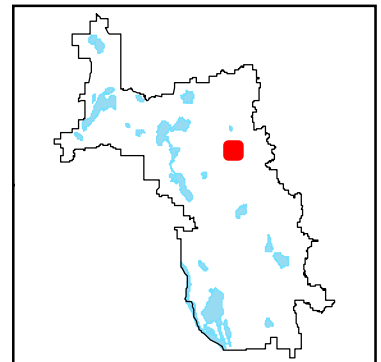
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Feet

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Miles

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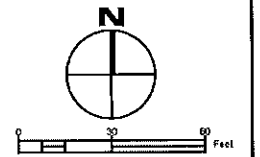


20-09

Special Provisions

1. The applicant shall submit the escrow fee of \$20,000.
2. The applicant shall submit the final, signed construction plans.
3. The applicant shall submit a signed maintenance agreement for the proposed stormwater facilities.
4. The applicant shall submit contact information for the trained erosion control coordinator responsible for implementing the Stormwater Pollution Prevention Plan (SWPPP).
5. The applicant shall submit verification of coverage under the Minnesota Pollution Control Agency's NPDES Construction Permit.

BENCHMARK
Hydrant at NW corner of property (7th Street)
TNH = 962.32



LEGEND:

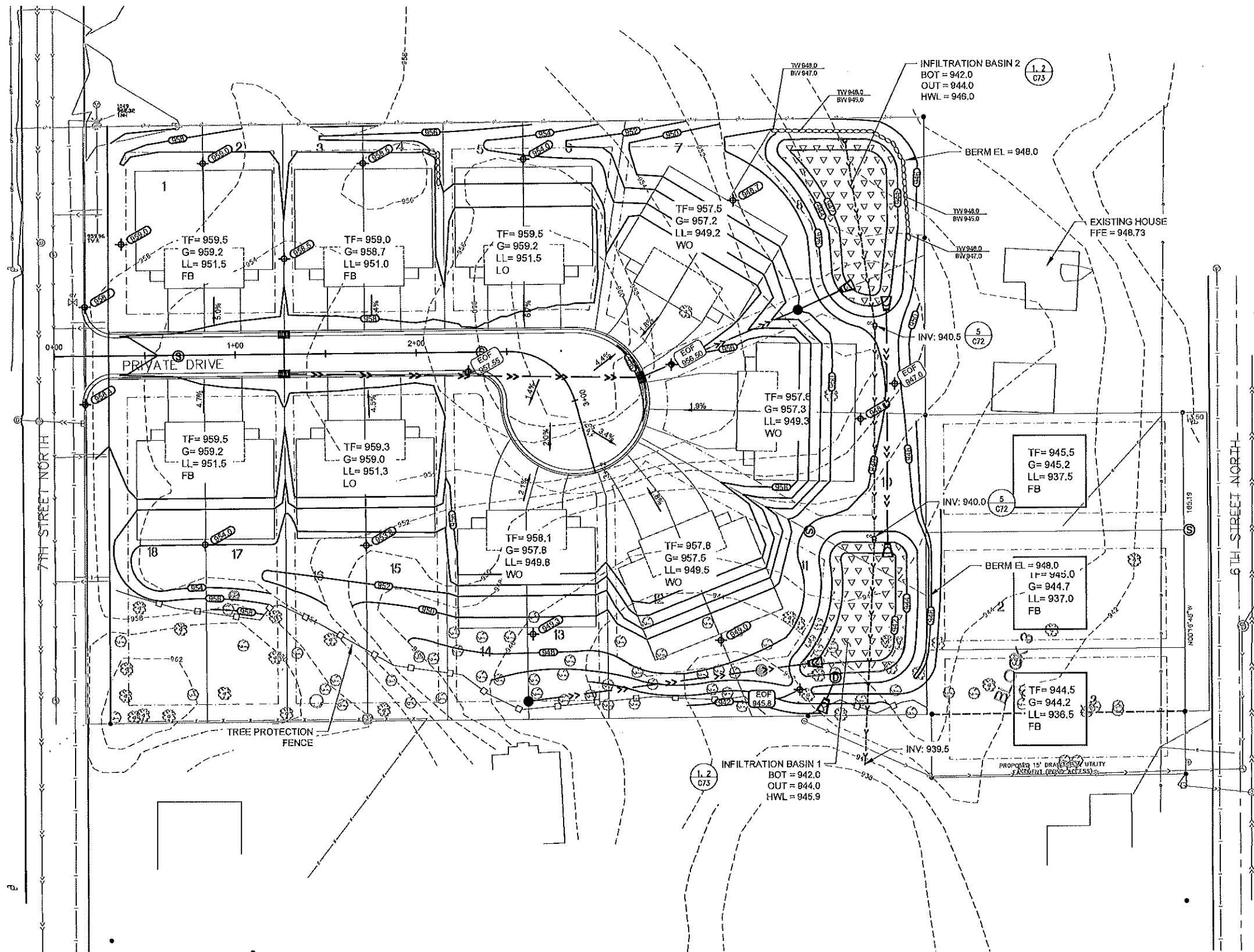
- PROPERTY LINE ———
- EASEMENT ———
- CONTOUR ———
- STORMWATER BMP [Symbol]
- SPOT ELEVATION, FINAL GRADE [Symbol]
- DRAINAGE DIRECTION W/ SLOPE [Symbol]
- PERFORATED UNDERDRAIN [Symbol]
- TREE PROTECTION FENCE [Symbol]
- RETAINING WALL [Symbol]
- DETAIL NO. / SHEET NO. [Symbol]

GENERAL NOTES:

- The subsurface utility location information in this plan is utility quality level D. This utility quality level was determined according to the guidelines of CUASCE 38-02, titled "Standard Guidelines for the Collection and Depiction of Existing Subsurface Utility Data." Engineer does not guarantee the accuracy of utility locations or that all existing utilities are shown.
- See Preliminary Plat for proposed parcel nomenclature and easements.
- Contractor is responsible for locating utilities prior to digging.
- Construction shall comply with all applicable governing codes.
- Contractor is solely responsible for jobsite conditions, including safety of all persons and property throughout the duration of the project (not limited to working hours).
- Damaged items or property not identified for removal shall be repaired or replaced at Contractor's expense; no extra compensation will be allowed for repair or replacement not indicated on plans or agreed upon with prior written authorization from the Owner.
- Contours shown to finished grade.
- Point elevations shown at flow line, unless otherwise noted.

INFILTRATION BASIN NOTES:

- Notify Nicole Soderholm (651.792.7976) at Ramsey Washington Metro Watershed District 48 hours prior to beginning construction of infiltration basin.
- Excavate infiltration basin to subgrade with light-weight equipment or from outside the basin footprint to minimize compaction.
- The native topsoil in the basin bottom shall be subcut a minimum of 12" and replaced with a loamy sand-topsoil mix with minimal clay content. 50-60% coarse sand is ideal. Onsite borrow may be suitable, but care must be taken to ensure minimal compaction (Infiltration shall be verified after construction to ensure adequate drawdown; if basin does not draw down within 48 hrs it will be reworked at Contractor's expense).
- After final grading and prior to seeding, the basin bottom shall be decompacted by tilling or ripping 12-18" deep (min.).
- Prevent sheet flow from disturbed unvegetated areas from entering the graded basin directly; install sediment control log around top of basin (to remain in place until upslope area is completely vegetated and homes constructed). Plant native prairie grass seed and blanket / hydromulch bottom and sideslopes (to overflow) of infiltration basin.



Print Date: 1/29/2020 2:20 PM
 File Loc: C:\Users\chris\Documents\7. Projects\038 - North St Paul Residential\03 - Drawings and Specifications\CAD\Sheet02_Grading.dwg

CIVIL METHODS, INC.
 1551 Livingston Avenue, Suite 104
 West St. Paul, MN 55118
 o:763.210.5713 | www.civilmethods.com

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

DAVID M. POGGI
 DATE: 01-28-2020
 LIC. NO.: 44573

DESIGNED: DWP
 DRAWN: DWP
 CHECKED: KEB

DATE / REVISION:
 01-17-2020 Preliminary Plat Review Set. NOT FOR CONSTRUCTION
 01-28-2020 Preliminary - Revised per RWWWD Comments. NOT FOR CONSTRUCTION

OWNER:
ANDRUS BUILT, LLC
 2440 CHARLES STREET N, #210
 NORTH ST. PAUL, MN 55109

TITLE:
SITE GRADING
 7TH STREET TOWNHOMES
 2242 7TH STREET, NORTH ST. PAUL, MN



SHEET NO.
C20

Permit Application Coversheet

Date March 04, 2020

Project Name NSP 7th Ave Reconstruction

Project Number 20-10

Applicant Name Scott Duddeck, City of North St. Paul

Type of Development Linear

Property Description

This project is located approximately along 7th Ave East from 1st Street North to 2nd Street North in the City of North St. Paul. The applicant is proposing to reconstruct this section of 7th Ave including portions of 1st and 2nd Street. The total site area is 5.5 acres. An underground infiltration system and filtration basin are being proposed to meet stormwater treatment requirements. Pretreatment methods include sump structures and a drainage swale. The applicant is proposing to bank the excess 3,677 cubic feet of volume reduction credit.

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.

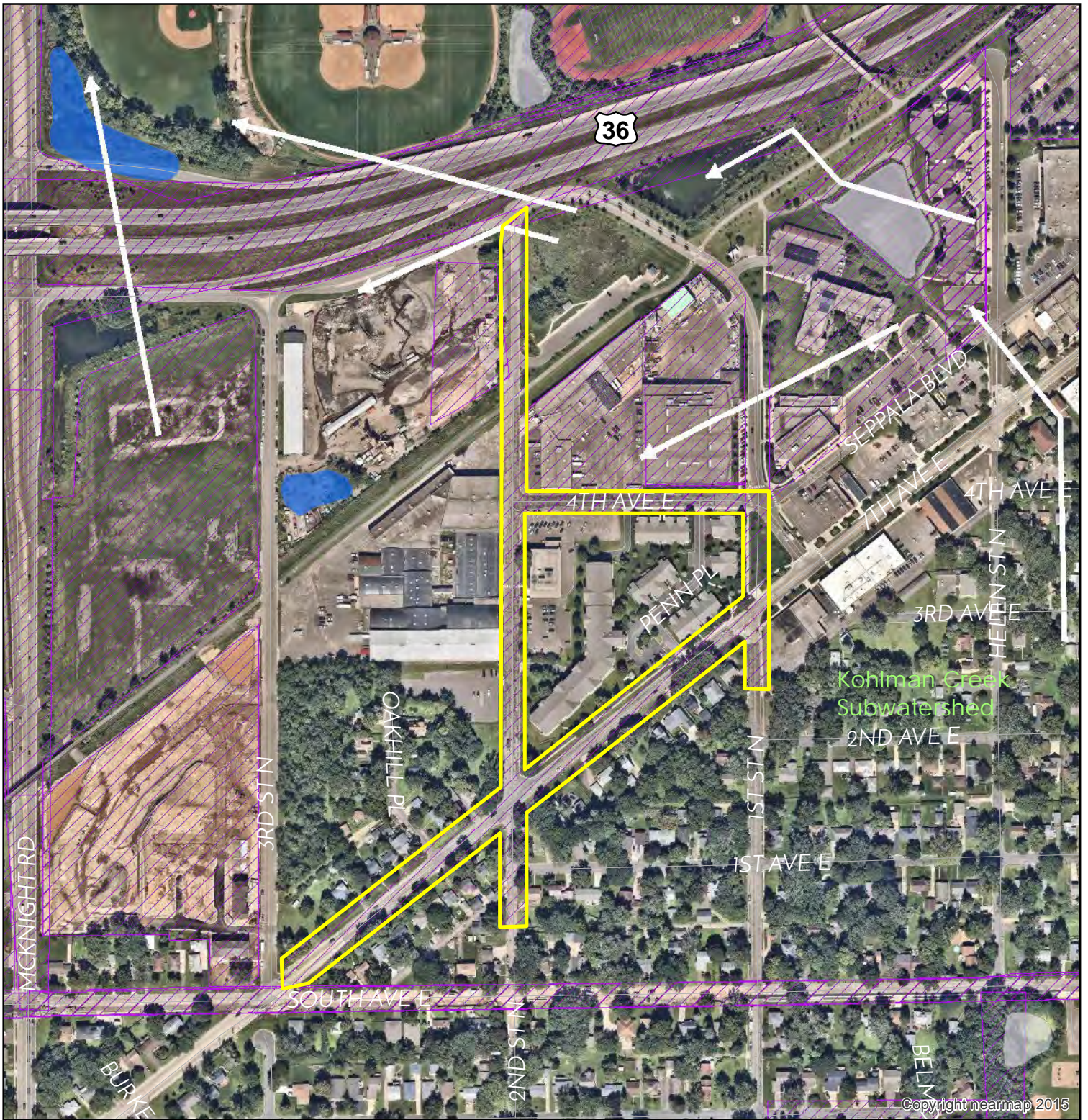
Staff Recommendation

Staff recommends approval of this permit with the special provisions.

Attachments:

- Project Location Map
- Project Grading Plan

#20-10 NSP 7th Avenue Reconstruction



Wetlands

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

- RWMWD Boundary
- Flow Arrows
- Major Flow Arrows
- Subwatersheds
- Creeks
- Permits

Highlighted Areas
Represent Active Permit

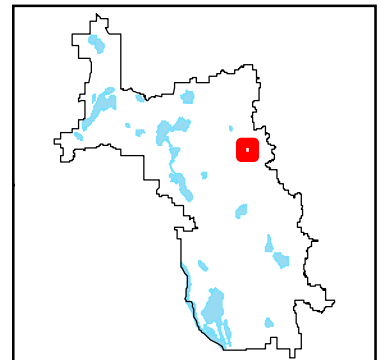
0 275 550

Feet

0 0.05 0.1

Miles

N



Copyright nearmap 2015

20-10

Special Provisions

1. The applicant shall submit contact information for the trained erosion control coordinator responsible for implementing the Stormwater Pollution Prevention Plan (SWPPP).
2. The applicant shall submit verification of coverage under the Minnesota Pollution Control Agency's NPDES Construction Permit.

Permit Application Coversheet

Date March 04, 2020

Project Name MCES Battle Creek Interceptor Rehab Project Number 20-11

Applicant Name Jeannine Clancy, Metropolitan Council Environmental Services

Type of Development Utility Maintenance

Property Description

This project is located in and around Battle Creek from approximately Highway 61 to Upper Afton Road in the City of St. Paul. The applicant is proposing to complete maintenance on an existing sanitary sewer line including Cured-In-Place-Pipe (CIPP) lining and manhole structure replacement. In order to access the pipe, the applicant is proposing to construct eight temporary creek crossings to allow for movement of heavy equipment within Battle Creek Regional Park. Three 30-inch low-flow culverts will be installed with each creek crossing to maintain flow and minimize impacts to water surface elevations during large rain events. The crossings do increase peak water surface elevations during design storm events, but all modeled flood zone impacts remain within the project's proposed construction limits. There are no habitable structures within these limits. The crossings are expected to be in place for approximately one year. Upon project completion, the crossings will be removed and existing hydrologic conditions restored to the creek. The applicant has submitted a variance request (Rule E) for temporary disturbance of wetlands and wetland buffers. The City of St. Paul is the Local Government Unit responsible for administering the Wetland Conservation Act for this project. The applicant will also be required to obtain DNR permit coverage for work within the creek. Excavation and dewatering will be occurring in close proximity to the District's storm tunnel. The applicant has submitted a tunnel monitoring plan which includes a pre-, intermediate, and post- tunnel inspection in coordination with District staff and installation of Manual Utility Settlement Monitoring Points (MUSMPs) to take readings while work is being completed. Any observed damage to District infrastructure as a result of this project will be repaired at the applicant's expense.

Watershed District Policies or Standards Involved:

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

Water Quantity Considerations

The proposed stormwater management plan is sufficient to prevent adverse impacts to habitable structures and parkland outside of approved construction limits.

Water Quality Considerations

Short Term

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

Long Term

There are no long term water quality considerations.

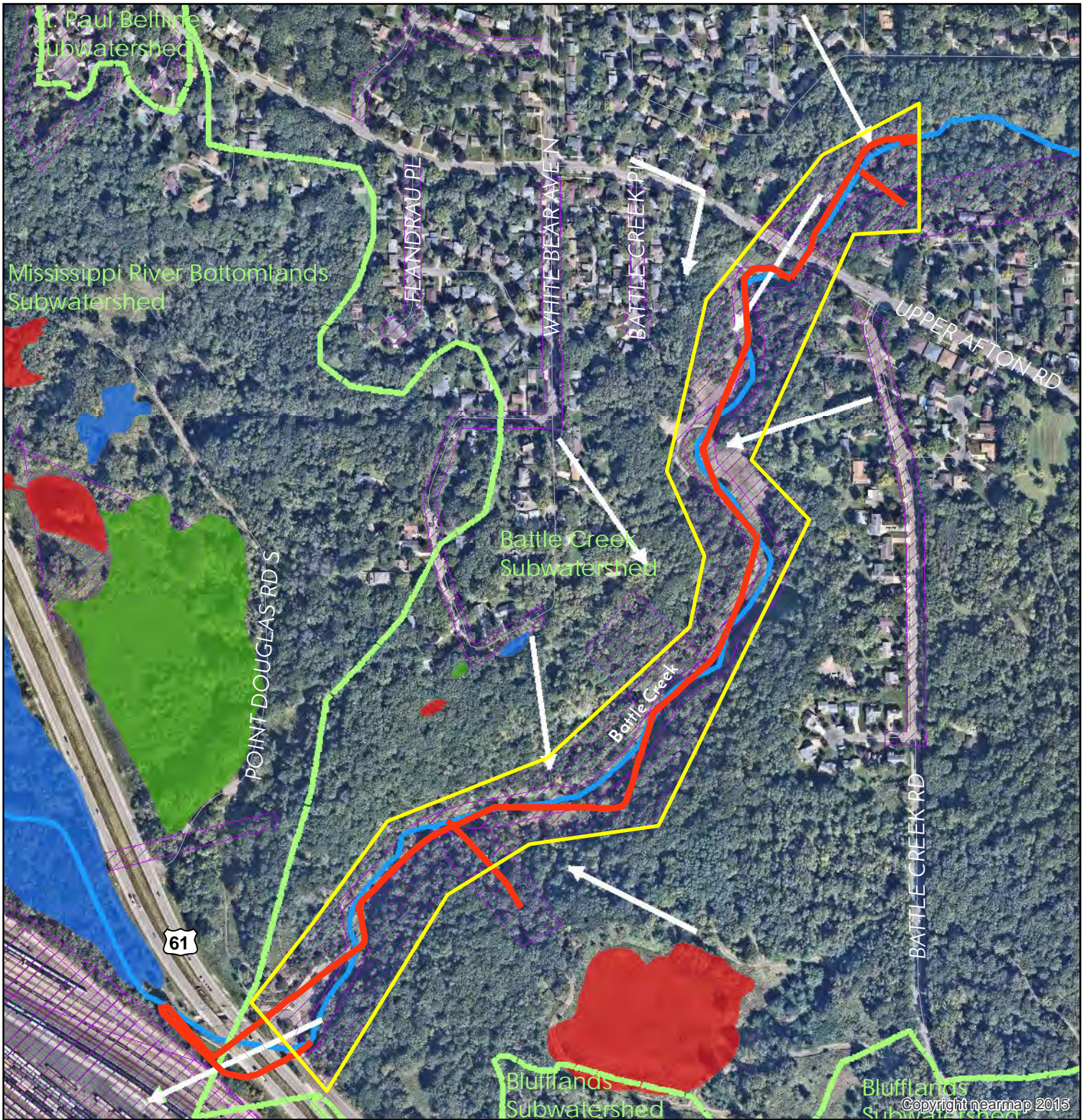
Staff Recommendation

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

Attachments:

- Project Location Map
- Project Grading Plan

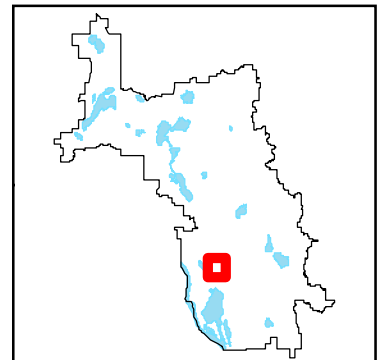
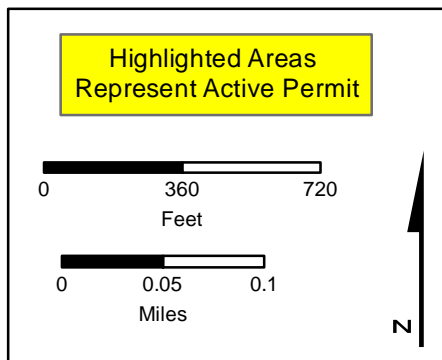
#20-11 MCES Battle Creek Interceptor



Wetlands

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

—	RWMWD MS4 Pipes
	RWMWD Boundary
→	Flow Arrows
→	Major Flow Arrows
	Subwatersheds
—	Creeks
	Permits



Special Provisions

1. The applicant shall provide a figure showing locations of tunnel monitoring points at stream crossings and excavations.
2. The applicant shall consult with District staff and complete any necessary agreements and coordination of pre-, intermediate, and post- tunnel inspections.
3. The applicant shall coordinate with county parks staff on selection of wetland and wetland buffer restoration seed mixes.
4. The applicant shall submit the final set of signed construction plans.
5. The applicant shall submit contact information for the trained erosion control coordinator responsible for implementing the Stormwater Pollution Prevention Plan (SWPPP).
6. The applicant shall submit verification of coverage under the Minnesota Pollution Control Agency's NPDES Construction Permit.

Table 1. Change in Peak WSEL Due to Temporary Crossing Installation					
2-year Design Storm Rain Event					
Basin ID	Basin Location	XPSWMM Node Name	Existing Peak WSEL	Proposed Peak WSEL	Change
H	Upstream	Node038	838.5	838.5	+0.0
	Temp. Crossing	STA_205	837.1	837.3	+0.2
	Downstream	C-71A	826.8	826.8	+0.0
G	Upstream	Node036	811.4	811.6	+0.1
	Temp. Crossing	STA_212	811.4	811.5	+0.2
	Downstream	C-72J	810.8	810.8	+0.0
F	Upstream	Node032	803.1	803.1	+0.0
	Temp. Crossing	N/A	-	-	-
	Downstream	C-72H	800.9	800.9	+0.0
E	Upstream	Node029	792.7	792.8	+0.1
	Temp. Crossing	STA_219	791.5	792.1	+0.7
	Downstream	C-72G	790.9	790.9	0.0
D	Upstream	Node027	783.2	783.2	0.0
	Temp. Crossing	N/A	-	-	-
	Downstream	C-72F	781.0	781.0	-0.0
C	Upstream	Node025	773.2	773.4	+0.1
	Temp. Crossing	STA_225	772.2	772.7	+0.5
	Downstream	C-72E	771.0	771.0	-0.0
B	Upstream	Node023	763.8	764.1	+0.3
	Temp. Crossing	STA_229	762.9	763.8	+0.9
	Downstream	C-72D	761.1	761.1	-0.0
A	Upstream	Node019	753.1	753.2	+0.1
	Temp. Crossing 1	STA_234	751.3	752.3	+1.0
	Temp. Crossing 2	STA_239	738.2	739.0	+0.9
	Temp. Crossing 3	SouthCrossing	719.8	721.1	+1.4
	Downstream	C-72A	715.7	715.7	-0.0

Under the 2-year event, the impacts to peak WSELs in Battle Creek are generally minimal and rarely above an increase of 0.5 feet. The largest increase occurs at the southernmost crossing near Highway 10/61. All increases result in flood zone impacts that are within the project's proposed construction limits and there are no habitable structures within such limits. Therefore, none of the 2-year event increases are expected to impact any existing structures in the area and all flooding will be contained within the existing Battle Creek channel area.

Table 2. Change in Peak WSEL Due to Temporary Crossing Installation 100-year Design Storm Rain Event					
Basin ID	Basin Location	XPSWMM Node Name	Existing Peak WSEL	Proposed Peak WSEL	Change
H	Upstream	Node038	841.7	842.6	+0.9
	Temp. Crossing	STA_205	841.7	842.6	+0.9
	Downstream	C-71A	841.6	841.6	-0.0
G	Upstream	Node036	816.7	817.2	+0.5
	Temp. Crossing	STA_212	816.6	817.2	+0.6
	Downstream	C-72J	815.7	815.7	-0.0
F	Upstream	Node032	807.6	807.6	-0.0
	Temp. Crossing	N/A	-	-	-
	Downstream	C-72H	805.8	805.8	-0.0
E	Upstream	Node029	796.7	799.0	+2.3
	Temp. Crossing	STA_219	795.6	798.9	+3.3
	Downstream	C-72G	795.1	795.1	-0.0
D	Upstream	Node027	787.8	787.8	-0.0
	Temp. Crossing	N/A	-	-	-
	Downstream	C-72F	784.9	784.9	-0.0
C	Upstream	Node025	779.0	779.5	+0.5
	Temp. Crossing	STA_225	777.5	778.7	+1.2
	Downstream	C-72E	774.8	774.8	-0.0
B	Upstream	Node023	767.8	768.5	+0.7
	Temp. Crossing	STA_229	766.8	768.1	+1.3
	Downstream	C-72D	764.9	764.9	-0.0
A	Upstream	Node019	756.4	757.2	+0.8
	Temp. Crossing 1	STA_234	754.5	756.7	+2.2
	Temp. Crossing 2	STA_239	741.6	742.9	+1.3
	Temp. Crossing 3	SouthCrossing	724.9	725.2	+0.3
	Downstream	C-72A	724.8	724.8	-0.0

Under the 100-year event, the impacts to peak WSELs are more pronounced in some locations. Just like that of the 2-year event analysis, all increases result in flood zone impacts that are within the project’s proposed construction limits and there are no habitable structures within such limits. In Basin E, the increase in peak WSEL at the temporary crossing location is over 3-feet. This is generally due to this basin having relatively steep side-slopes that constrain flow to a relatively small cross-section as flood waters rise. However, none of the increases in peak WSELs are expected to impact existing structures aside from the existing pedestrian bridges crossing the channel. It is worth noting that these bridges are already impacted by the 100-year

event according existing conditions model results. Similarly, though, the temporary creek crossings are being designed to allow them to remain stable when overtopped by the 100-year event, whereas all of the 2-year event will pass through the temporary culverts installed as part of the crossing(s).

Appendix B exhibits show the expected impact to peak WSELs at each of the eight basins under the 2- and 100-year design storms. Figure 4 shows the area impact of the 100-year rise in flood water associated with Basin E. As noted, the impact area resulting from the over 3-foot rise in flood water remains within the project's proposed construction limit. Similar impact areas were reviewed for all basins, and all resulted in flood waters remaining within the project's proposed construction limits, this being the worst case for all Basins (highest rise).

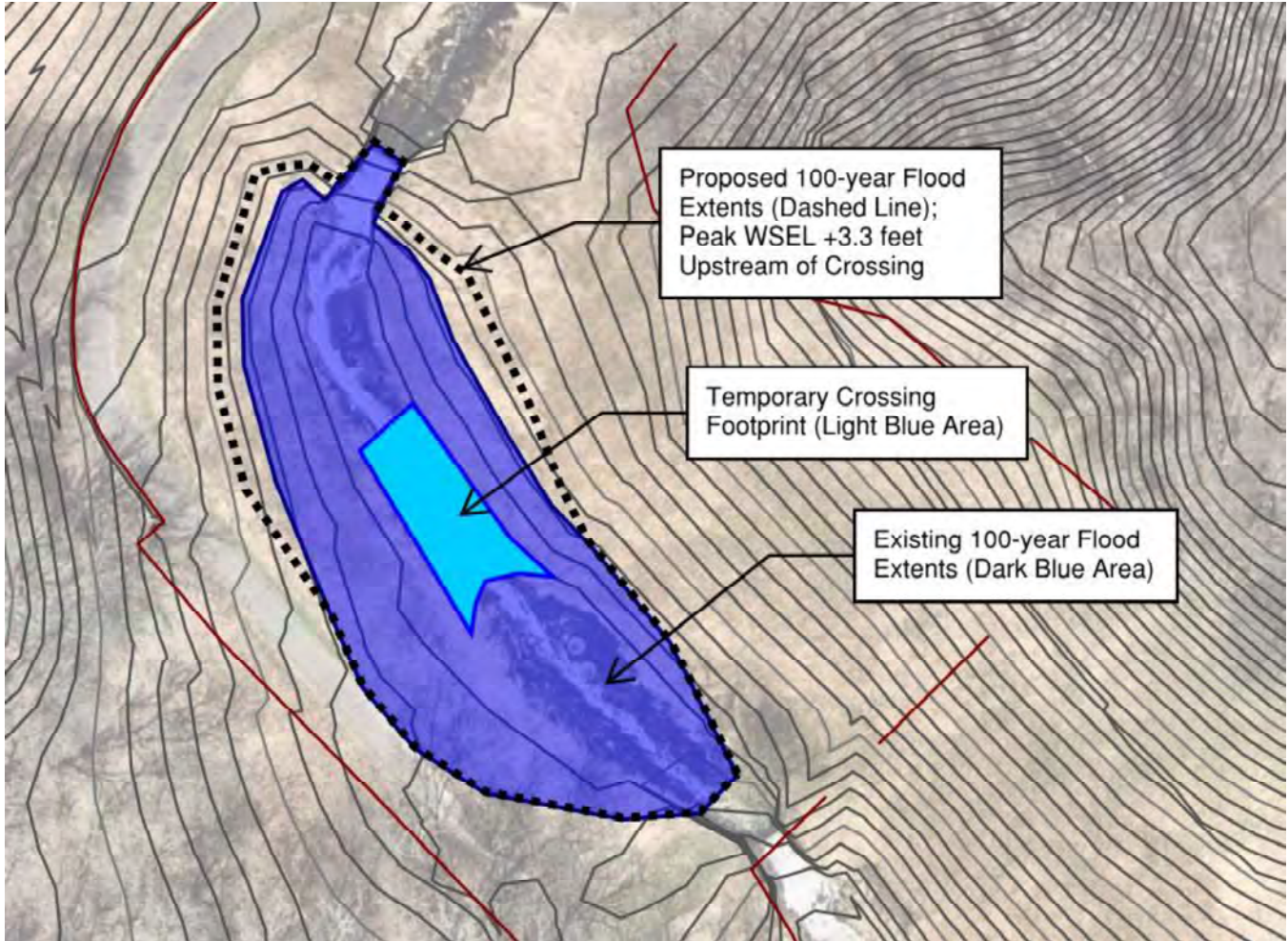


Figure 4 - Basin E 100-year Flood Impact Due to Temporary Crossing

Section 3: Conclusions

The temporary crossings and associated culverts within Battle Creek are required to allow access to the existing MCES interceptor for necessary rehabilitation work. The crossings will impact peak WSELs during small and large design storms. However, during proposed conditions, flood waters will continue to be contained within the Battle Creek channel area and will not impact any existing habitable structures, nor park or other properties beyond that within the project's proposed construction limits.

30 7th Street East, Suite 2500
Saint Paul, MN 55101

Phone: 651-298-0710
Fax: 651-298-1931



February 21, 2020

Nicole Soderholm
Ramsey-Washington Metro Watershed District
2665 Noel Dr
Little Canada, MN 55117

MCES Project 808823

Subject: Rule E: Wetland/Buffer Disturbance Variance Request

Dear Nicole:

Condition assessments of existing wastewater interceptors in and near Battle Creek Park in Ramsey County, MN have determined that the pipes are reaching the end of their serviceable life and require rehabilitation to prevent future failure. To complete the work, Metropolitan Council Environmental Services (MCES) is requesting a variance to Rule E: Wetland/Buffer Disturbance.

PROJECT PURPOSE

The purpose of this project is to make condition improvements on MCES Interceptors 1-SP-200 and 1-SP-201 in Ramsey County, MN. Interceptor 1-SP-200 is generally located within Battle Creek Regional Park along existing trails and open areas. Interceptor 1-SP-201 is primarily within the public right-of-way (ROW) of Park Entrance Rd (a.k.a. Point Douglas Rd).

Most of the project is Rehabilitation of Existing Infrastructure, Including:

- Approximately 5650 LF of 30" and 33" RCP Sanitary Interceptor Sewers to be Cured-In-Place-Pipe (CIPP) lined.
- Installation of Fiberglass or polymer concrete inserts into 14 access manholes (MHs)
- Removal and replacement of MH top-slabs and subsequent rehabilitation of two unique structures.
- CIPP line through and abandon one MH.

Removal and replacement of piping and structures will be done via open trench excavation, including:

- For 1-SP-200, two outside drop MHs are to be removed and replaced with new fiberglass or polymer concrete structures and adjacent piping. In addition, two new MHs will be added upstream of each drop MH. Also, two segments (<20-LF each) of corroded 33" RCP will be removed and replaced prior to CIPP lining.

- For 1-SP-201, five MHs are to be removed and replaced with only four MHs replacing them. In addition, approximately 400 LF of existing 12", 16", 20" 30", and 36" piping will be purged, cleaned and televised prior to removal and replacement.
- Separately, along the 1-SP-201 interceptor, approximately 365 LF of the previously abandoned 12" and 30" siphon piping will be removed. Any remaining unused pipe beyond proposed excavation limits will be filled as necessary for proper abandonment.

Rehabilitation of the existing MCES headhouse building and meter vault near the downstream end of interceptor 1-SP-200 will also occur, mostly being work internal to the building.

During construction, temporary flow conveyance systems will be installed to provide diversion of sewage flows as necessary to rehabilitate the existing infrastructure. The temporary conveyance system will be located above grade where possible and buried at existing roadway, driveway, and trail crossings to allow continued access throughout construction.

While temporary conveyance systems are in place, cleaning of sewers adjacent to the project will also be accomplished:

- Approximately 500 LF of 1-SP-200 and 1-WO-500 interceptor piping will be cleaned immediately upstream of the proposed rehabilitation work.
- Approximately 800 LF of 1-SP-200 arched tunnel and piping between the lined segments and the headhouse building will be cleaned.
- Approximately 1, 200 LF of 1-SP-201 3-barreled siphon piping will be cleaned.
- Approximately 2,000 LF of 1-SP-202 forcemain piping from pump station L12 to interceptor 1-SP-201 will be cleaned.

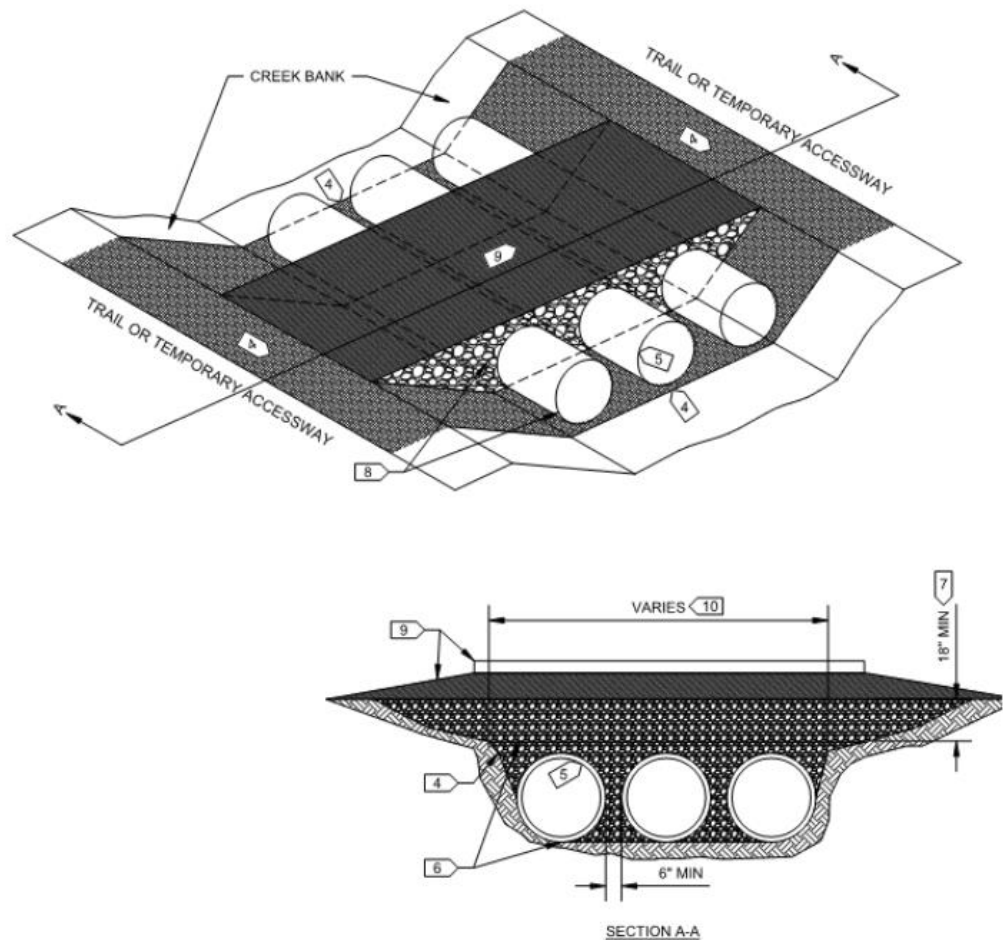
All cleaning operations will include decanting of solids material with disposal at appropriate landfill facilities and/or vector truck hauling of sewage to downstream MCES interceptors as necessary.

PROJECT IMPACTS

According to the Wetland Delineation Report completed in October 2019, Wetlands 3 and 4 are classified as Type 1 and are subject to a buffer width of 75 feet, with a minimum of 37.5 feet. The buffer width is truncated (less than 37.5 feet) throughout the Park by the trail system and other Park amenities. During construction, approximately 4,510 square feet of temporary wetland impact is proposed within the Project Area, which shall be restored back to pre-construction conditions. No increase or decrease to the existing buffer width is planned. Please refer to the attached Watershed Basin Exhibit for an overview of construction and wetland buffer limits and impacts.

In addition to open cut areas described above for pipe/structure rehabilitation or temporary conveyance installation, eight creek/wetland crossings will need to be installed. These crossings are designed to allow movement of heavy equipment throughout the

park. Crossings shall be installed over the existing creek bed. Upon removal, the cross-sectional area (profile) and hydrologic conditions of Battle Creek shall be reestablished.



Intermediate staging areas have been designed to provide enough space for equipment while reducing the number of trees that need to be removed.

All impacts to the wetlands and buffers are considered temporary and will be rectified upon completion of construction.

- Temporary conveyance systems and temporary crossings will be removed and existing grades will be restored.
- Wetlands shall be reseeded with BWSR Mixture Mid-Diversity Moist Buffer South and West for Wetland Rehabilitation per RWMWD requirements.
- Wetland buffers shall be decompacted and reseeded with Woodland Edge South and West (MnDOT Mix 36-211) per RWMWD requirements.

PROPOSED SCHEDULE

Construction is planned for July 2020 through August 2021. Excavation work within the buffer area is planned during winter months to reduce impacts. A summary of proposed impacts by wetland area is provided in the table below.

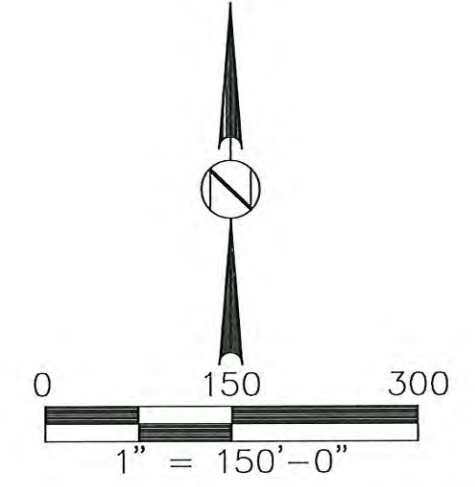
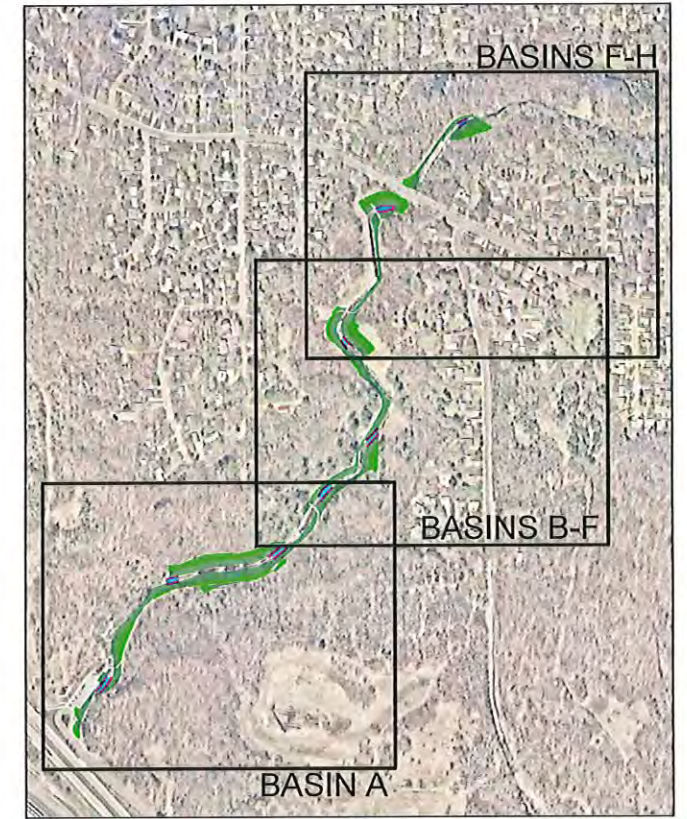
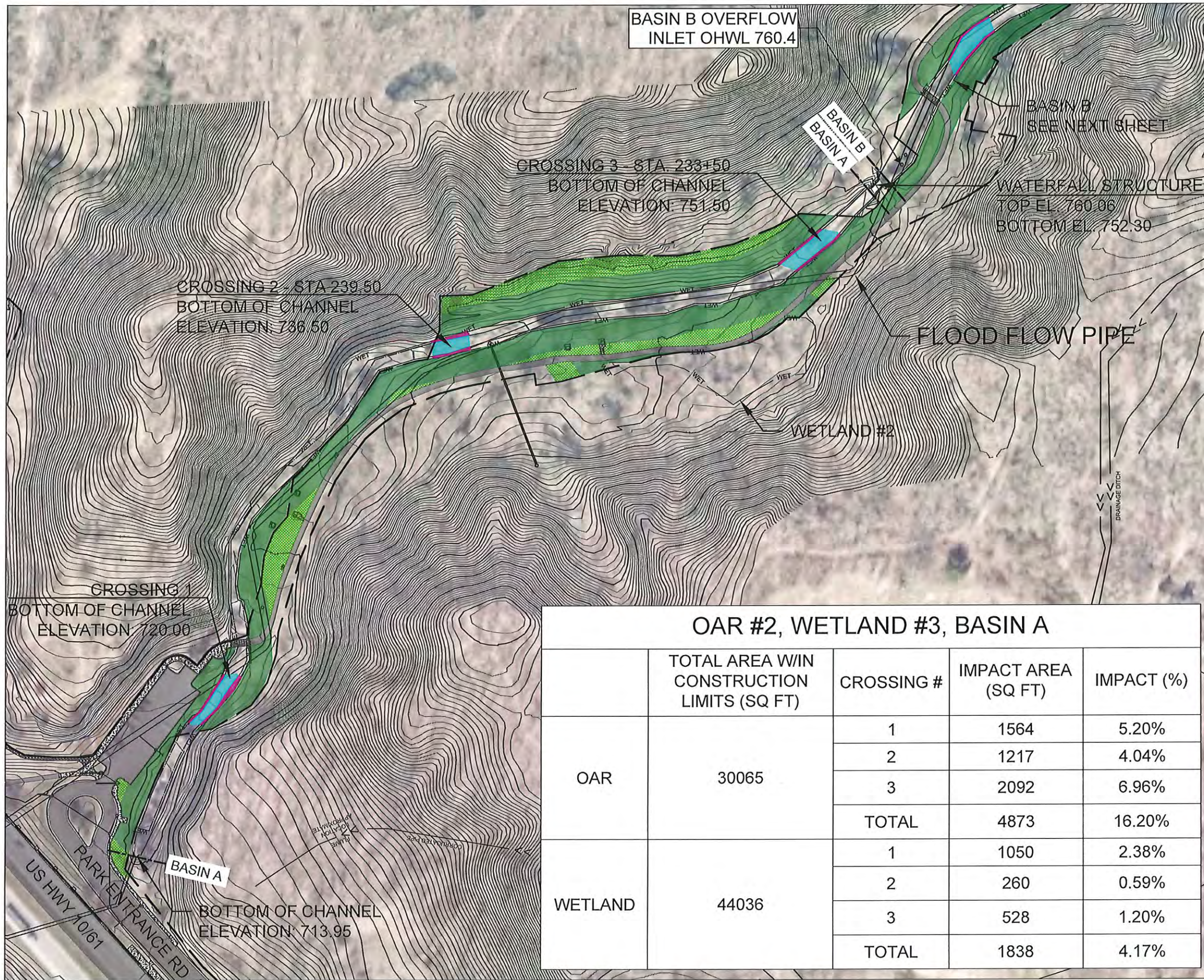
Table 1. Proposed Project Schedule				
OAR	Wetland and Adjacent Buffer	Basin	Impact Start	Impact End
N/A	2	N/A	November 2020	August 2021
2	3	A, B	November 2020	August 2021
2	3	C, D, E, F, G	July 2020	August 2021
2	4	H	July 2020	August 2021

We hope this summary provides sufficient information for the variance approval. Please feel free to contact me by phone or email if any additional information is needed.

Thank you,

Peter Glashagel, Brown and Caldwell Engineer
Office: 651-468-2062
Cell: 651-600-8444
Email: pglashagel@brwncald.com

Attachments: Watershed Basin Exhibit

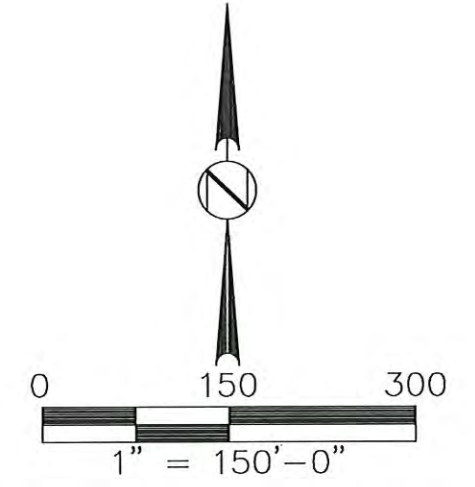
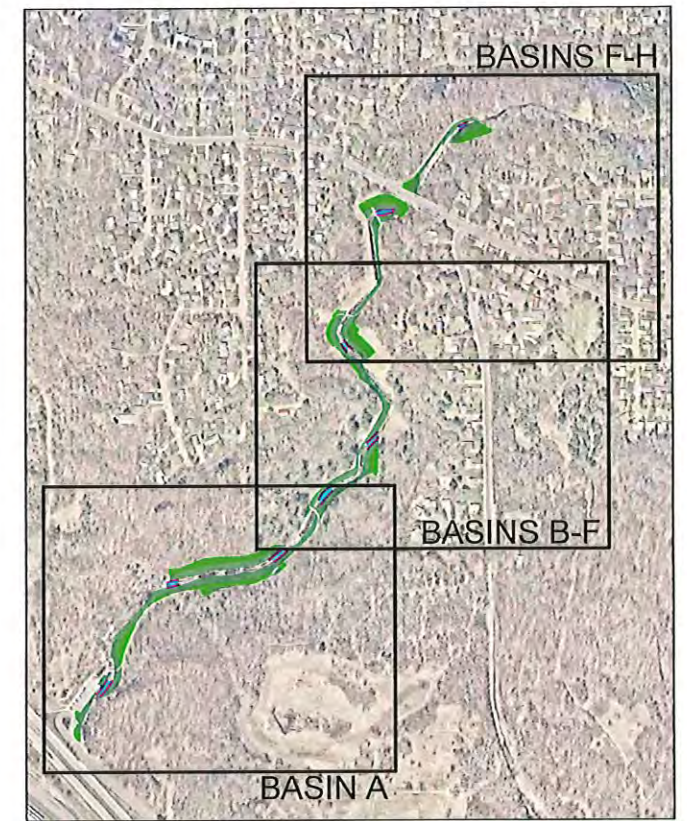
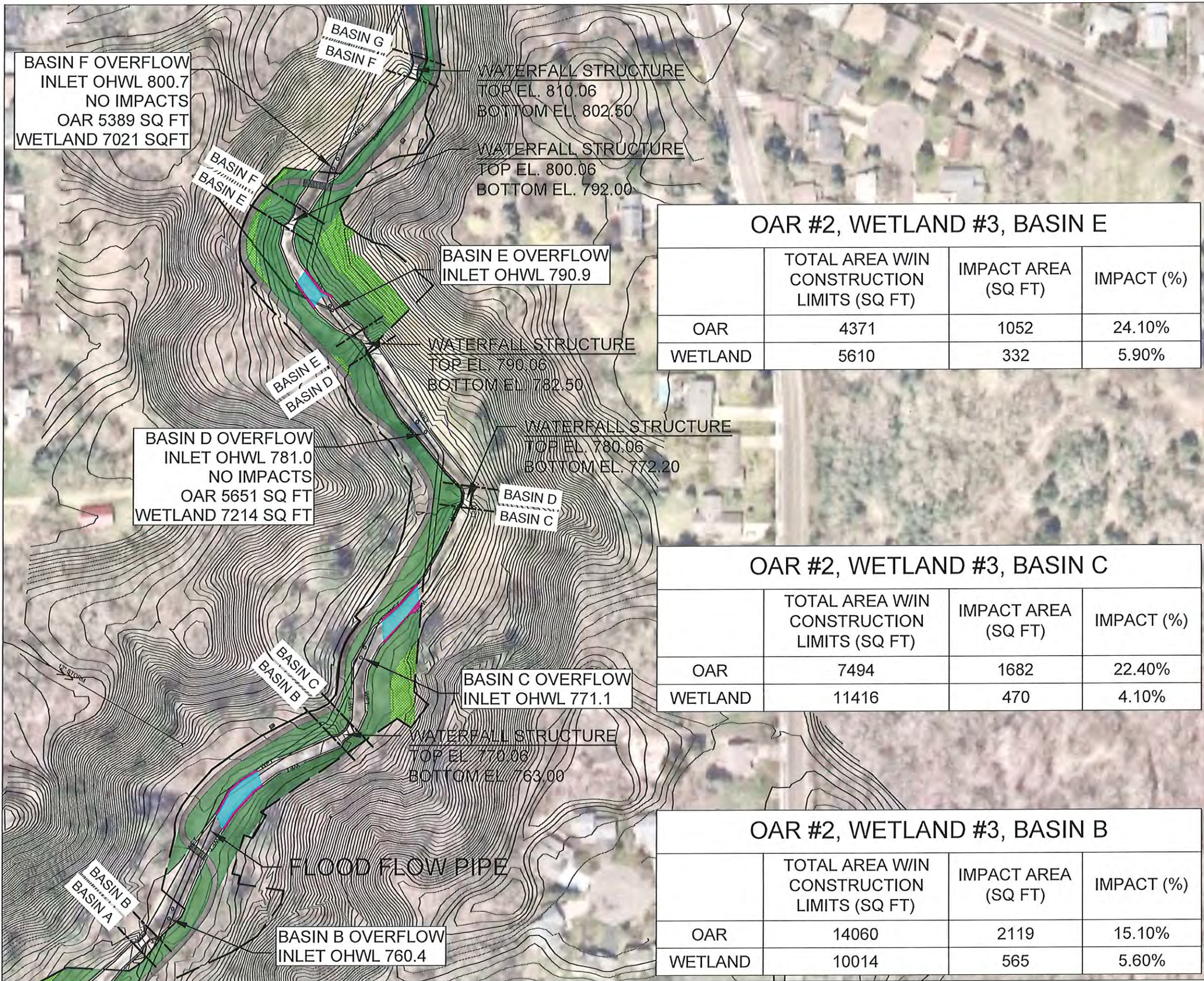


BATTLE CREEK BASIN A

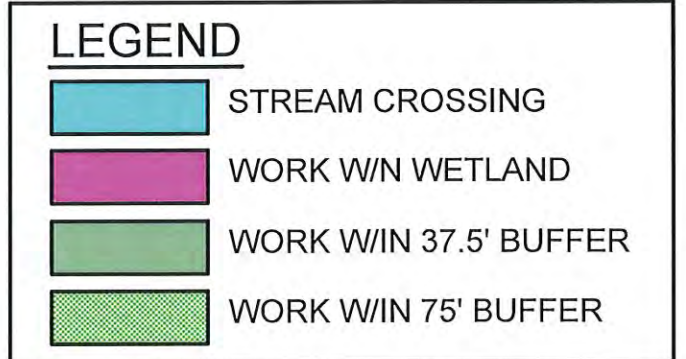
OAR #2, WETLAND #3, BASIN A				
	TOTAL AREA W/IN CONSTRUCTION LIMITS (SQ FT)	CROSSING #	IMPACT AREA (SQ FT)	IMPACT (%)
OAR	30065	1	1564	5.20%
		2	1217	4.04%
		3	2092	6.96%
		TOTAL	4873	16.20%
WETLAND	44036	1	1050	2.38%
		2	260	0.59%
		3	528	1.20%
		TOTAL	1838	4.17%

LEGEND	
	STREAM CROSSING
	WORK W/IN WETLAND
	WORK W/IN 37.5' BUFFER
	WORK W/IN 75' BUFFER

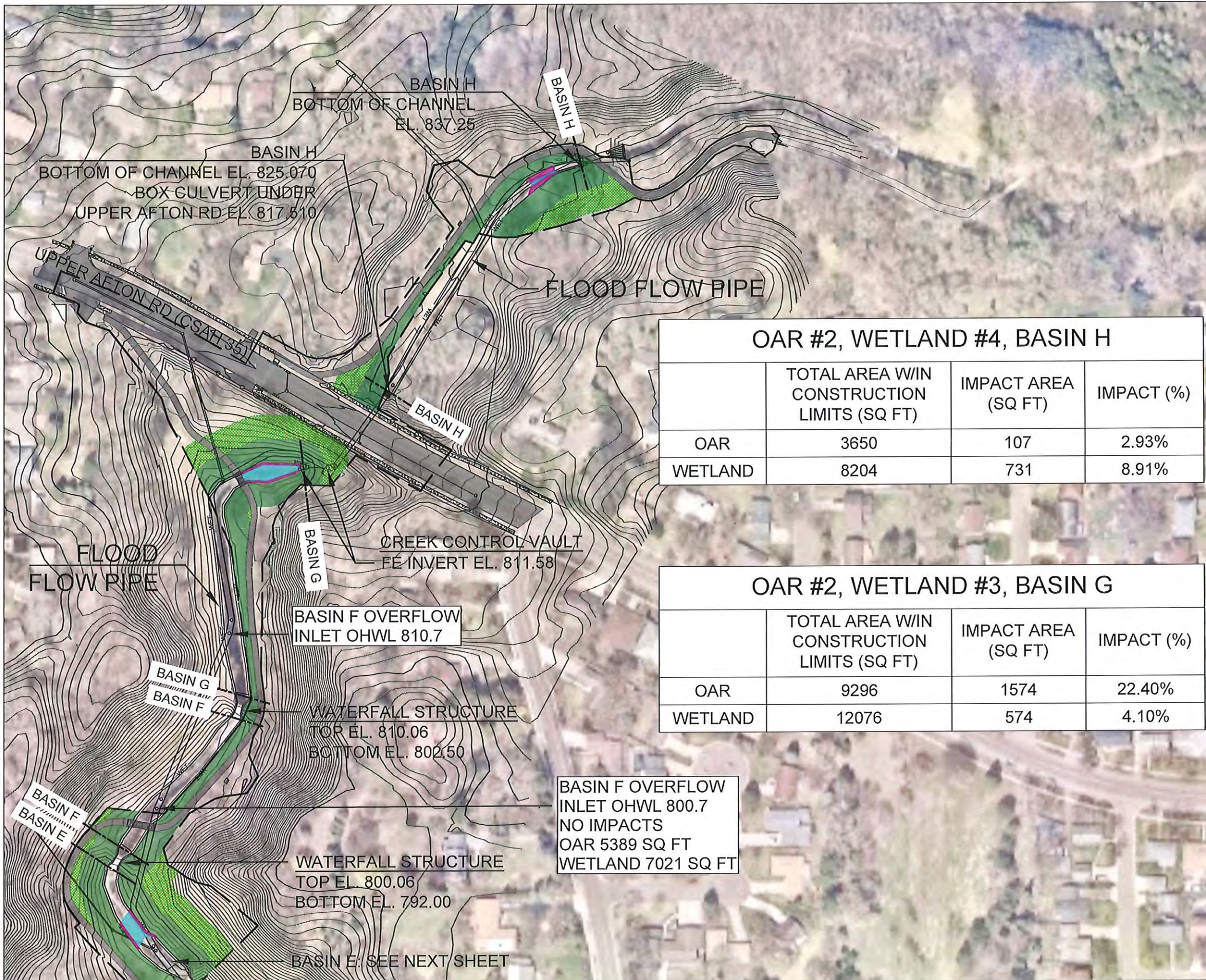
NOTE: OHWL OF OVERFLOW STRUCTURES UPDATED 1/28/20



BATTLE CREEK BASINS B - F



NOTE: OHWL OF OVERFLOW STRUCTURES UPDATED 1/28/20



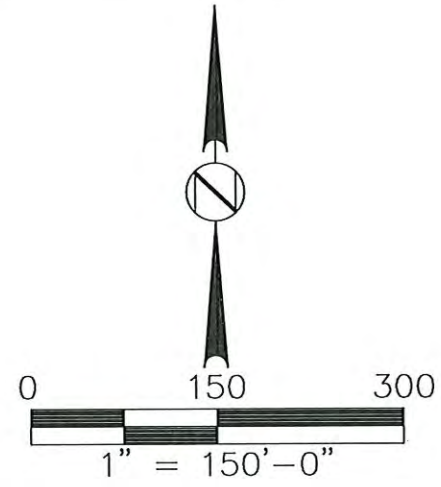
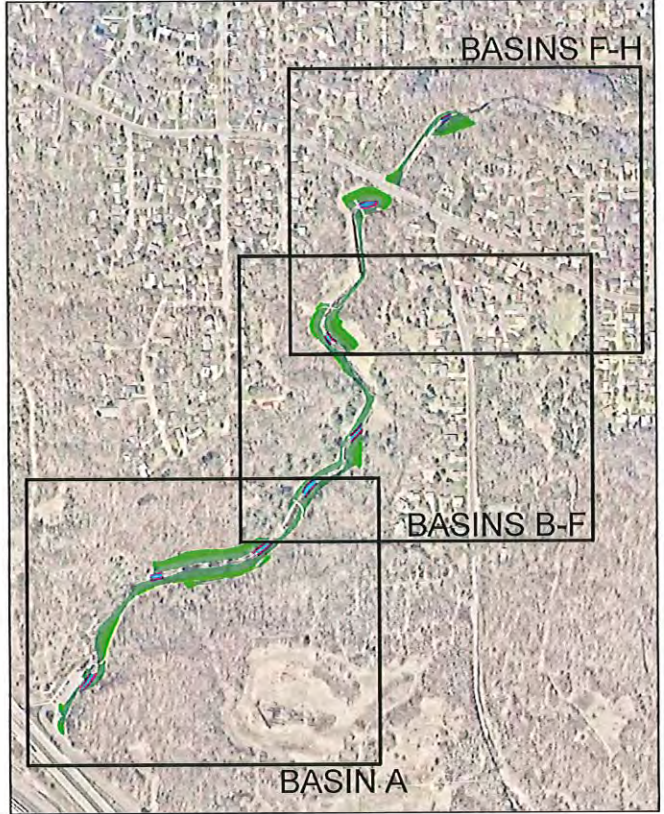
OAR #2, WETLAND #4, BASIN H

	TOTAL AREA W/IN CONSTRUCTION LIMITS (SQ FT)	IMPACT AREA (SQ FT)	IMPACT (%)
OAR	3650	107	2.93%
WETLAND	8204	731	8.91%

OAR #2, WETLAND #3, BASIN G

	TOTAL AREA W/IN CONSTRUCTION LIMITS (SQ FT)	IMPACT AREA (SQ FT)	IMPACT (%)
OAR	9296	1574	22.40%
WETLAND	12076	574	4.10%

BASIN F OVERFLOW INLET OHWL 800.7
 NO IMPACTS
 OAR 5389 SQ FT
 WETLAND 7021 SQ FT



BATTLE CREEK BASINS F - H

LEGEND

	STREAM CROSSING
	WORK W/IN WETLAND
	WORK W/IN 37.5' BUFFER
	WORK W/IN 75' BUFFER

NOTE: OHWL OF OVERFLOW STRUCTURES UPDATED 1/28/20

Permit Application Coversheet

Date March 04, 2020

Project Name County Road D and Greenbrier SIP

Project Number 20-12

Applicant Name Bill Dircks, City of Little Canada

Type of Development Linear

Property Description

This project is located approximately along County Road D from Edgerton Street to Greenbrier Street, and Greenbrier Street from County Road D to Labore Road in the City of Little Canada. The applicant is proposing to reconstruct these sections of roadway and converting from a ditch system to urban storm sewer with curb and gutter. This project will also include construction of a bituminous trail on the north side of County Road D. The total site area is 5.3 acres. A wet pond, filtration basin, and dry pond are being proposed to meet stormwater treatment requirements. Two residential rain gardens along Greenbrier Street will also be included in the project. Filtration is being proposed due to poor soils. The applicant is proposing to bank the excess 14,012 cubic feet of volume reduction credit.

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.

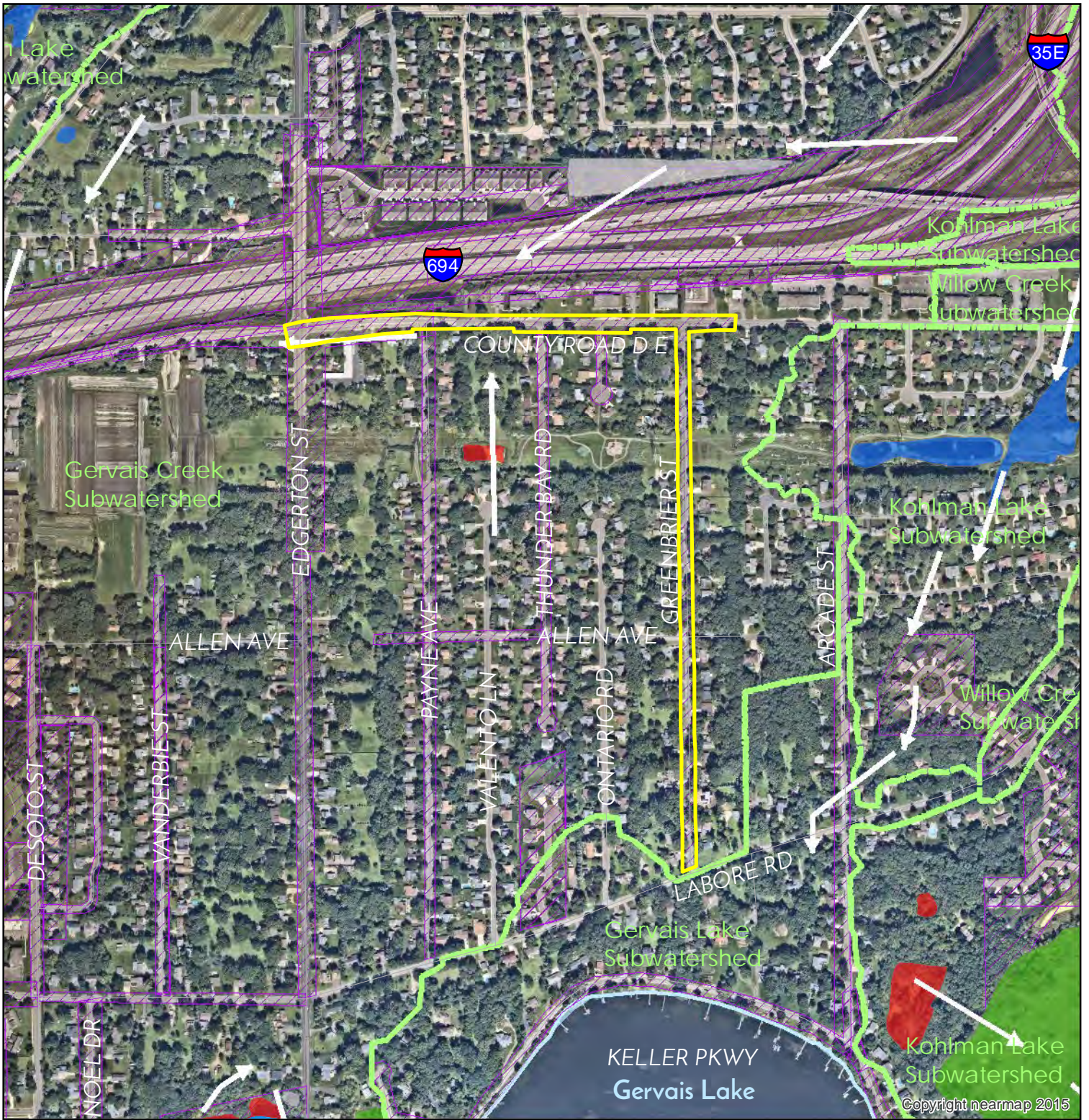
Staff Recommendation

Staff recommends approval of this permit with the special provisions.

Attachments:

- Project Location Map
- Project Grading Plan

#20-12 County Road D and Greenbrier SIP



Wetlands

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

- RWMWD Boundary
- Flow Arrows
- Major Flow Arrows
- Subwatersheds
- Creeks
- Permits

Highlighted Areas Represent Active Permit

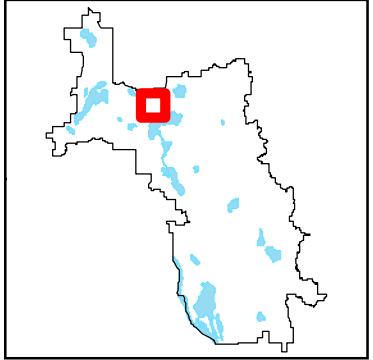
0 500 1,000

Feet

0 0.075 0.15

Miles

N



Copyright nearmap 2015

20-12

Special Provisions

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

Permit Application Coversheet

Date March 04, 2020

Project Name Menard's Remodel

Project Number 20-13

Applicant Name Nick Brenner, Menard Inc.

Type of Development Commercial/Retail

Property Description

This project is located at the existing Menard's store site off Highway 61 in the City of Maplewood. The applicant is proposing to demolish the existing store and single family homes south of the parking lot in order to construct a new store, warehouse, garden center, and parking. The total site area is 17.9 acres. A wet pond, underground filtration system, and two filtration basins are proposed to meet stormwater treatment requirements. Filtration with iron-enhanced sand is proposed due to poor soils. Pretreatment will include 5 foot sumped manholes.

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

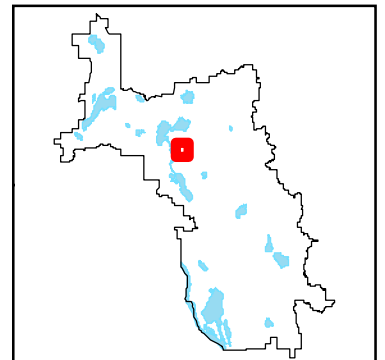
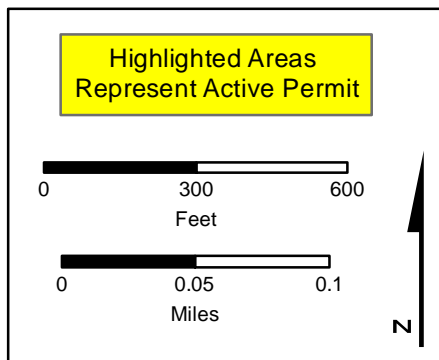
#20-13 Menard's Remodel



Wetlands

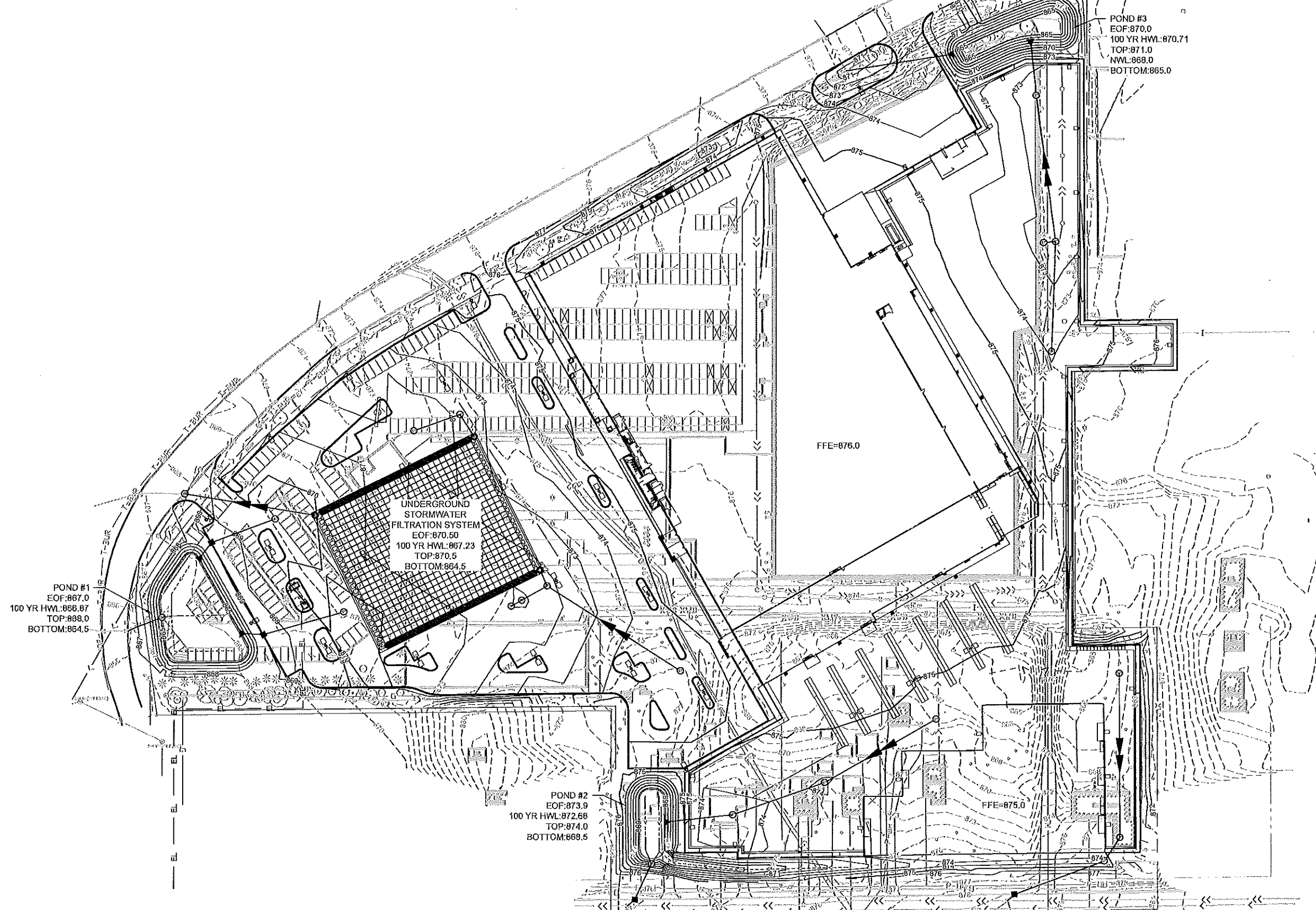
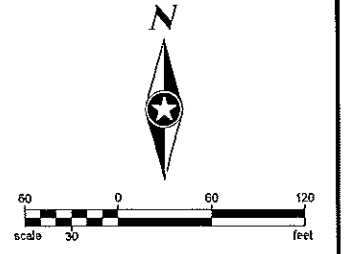
■	Manage A
■	Manage B
■	Manage C
	Lake
	Sediment Pond
	Not Assessed

	RWMWD Boundary
	Flow Arrows
	Major Flow Arrows
	Subwatersheds
	Creeks
	Permits



Special Provisions

1. The applicant shall add note(s) to the plans specifying the use of iron-enhanced sand in the Contech filtration system.
2. The applicant shall submit the escrow fee of \$89,500.
3. The applicant shall submit a revised erosion control plan that shows location, sizing, and maintenance thresholds for temporary sediment basin(s). Include a site-specific dewatering plan.
4. The applicant shall submit the final set of signed construction plans.
5. The applicant shall submit a signed joint maintenance agreement with the City of Maplewood for the proposed stormwater facilities.
6. The applicant shall submit a draft, site-specific BMP Operations & Maintenance Plan for the proposed stormwater facilities. A final, as-built O&M Plan will be required prior to permit closure.
7. The applicant shall submit contact information for the trained erosion control coordinator responsible for implementing the Stormwater Pollution Prevention Plan (SWPPP).
8. The applicant shall submit verification of coverage under the Minnesota Pollution Control Agency's NPDES Construction Permit.



POND #1
 EOF:867.0
 100 YR HWL:866.87
 TOP:868.0
 BOTTOM:864.5

UNDERGROUND
 STORMWATER
 FILTRATION SYSTEM
 EOF:870.50
 100 YR HWL:867.23
 TOP:870.5
 BOTTOM:864.5

POND #2
 EOF:873.9
 100 YR HWL:872.68
 TOP:874.0
 BOTTOM:868.5

POND #3
 EOF:870.0
 100 YR HWL:870.71
 TOP:871.0
 NWL:868.0
 BOTTOM:865.0

FFE=876.0

FFE=875.0

Save: 2/24/2020 4:15 PM cmm\ Plot: 2/24/2020 4:32 PM X:\C\WORK\MENARDS\1535045-final-dsgn\01-Civil\civ01.dwg sheetWIE:1535045.dwg

DRAWN BY:	CMM	D	CMM	1/24/2020	ISSUED FOR REVIEW
DESIGNER:	DDL	C	CMM	1/15/2020	ISSUED FOR REVIEW
CHECKED BY:	DDL	F	TJB	2/21/2020	ISSUED FOR REVIEW
DESIGN TEAM		E	CMM	2/4/2020	ISSUED FOR REVIEW
		NO.	BY	DATE	REVISIONS



I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT
PRELIMINARY
NOT FOR CONSTRUCTION

MAPLEWOOD,
 MINNESOTA

OVERALL GRADING PLAN
 MAPLEWOOD SITE DESIGN

FILE NO.
 MENAR 147393
CIV-200



RAMSEY-WASHINGTON

METRO WATERSHED DISTRICT

MEMORANDUM

Date: March 4, 2020
To: Board of Managers and Staff
From: Nicole Soderholm, Permit Coordinator
Subject: February Enforcement Action Report

During February 2020:

Number of Violations: 0

Activities:

Permitting assistance to private developers and public entities, permit review with Barr Engineering, miscellaneous inquiries, ongoing ESC site inspections and reporting, WCA administration and procedures, pre-application meetings, pre-construction meetings

Project Updates:

Permit #19-19 Roseville Middle School Addition

Staff conducted an inspection on February 20th with onsite contractors. All necessary erosion and sediment control (ESC) BMPs were in place and maintained. Staff will continue to inspect the site on a regular schedule to ensure compliance is met. Staff communicated to contractors that a robust dewatering plan will need to be created and implemented to prevent offsite impacts from occurring during spring thaw and rain events.

Permit #19-47 Valley Creek-Woodlane Redevelopment

Staff attended a pre-construction meeting on February 20th with several groups including the City of Woodbury, earthwork contractors, abatement contractors, and the engineer firm designing the project. Staff communicated the importance of ESC practices being implemented despite the site's current frozen conditions. Staff will continue to inspect the site on a regular schedule to ensure compliance is met.

Temporary Permit – Woodbury Temporary PFAS Water Treatment Plant

Staff attended an onsite meeting with the City of Woodbury, the engineering firm designing the project, earthwork contractors, and others to discuss the process of building the temporary PFAS water treatment plant. Staff inspected the site and detailed with onsite personnel the necessary ESC practices that would be needed onsite. Regular inspections will continue at the site once construction begins to ensure the site stays in compliance.

Permit #19-50 Window World Expansion

Following conditional board approval of this project in December, the applicant submitted a notarized, signed agreement that holds the District harmless in the event of future flooding on the property. This agreement was required as a condition of permit approval due to the site's existing position within the 100-year floodplain. The grading permit was issued on February 13th. The applicant has been notified to contact District staff prior to soil disturbance for an initial ESC inspection.

Permits Closed in February 2019:

None

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Stewardship Grant Program

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Stewardship Grant Program Budget Status Update

March 4, 2020

Homeowner	Coverage	Number of Projects	Funds Allocated
Habitat Restoration and rain garden w/o hard surface drainage	50% Cost Share \$15,000 Max	0	\$0
Rain garden w/hard surface drainage, pervious pavement, green roof	75% Cost Share \$15,000 Max	1	\$6,000
Master Water Steward Project	100% Cost Share \$15,000 Max	1	\$5,800
Shoreland Restoration	100% Cost Share \$15,000 Max	0	\$0

Commercial, School, Government, Church, Associations, etc.	Coverage	Number of Projects	Funds Allocated
Habitat Restoration	50% Cost Share \$15,000 Max	0	\$0
Shoreland Restoration (below 100-year flood elevation w/actively eroding banks)	100% Cost Share \$100,000 Max	1	\$200,000
Priority Area Projects	100% Cost Share \$100,000 Max	2	\$200,000
Non-Priority Area Projects	75% Cost Share \$50,000 Max	0	\$0
Public Art	50% Cost Share	0	\$0
Aquatic Veg Harvest/LVMP Development	50% Cost Share \$15,000 Max	0	\$0
Maintenance	50% Cost Share \$5,000 Max for 5 Years	24	\$21,200
Consultant Fees			\$0
Total Allocated			\$411,800

2020 Stewardship Grant Program Budget	
Budget	\$1,000,000
Total Funds Allocated	\$411,800
Total Available Funds	\$588,200

* * * * *

Action Items

* * * * *

Request for Board Action

Board Meeting Date: March 4, 2020

Agenda Item No.: 8A

Preparer: Tina Carstens, Administrator

Item Description: Eastside Boys and Girls Club Project Bid Award

Background:

At the February 2020 meeting, the board was presented the plans and cost estimate for this Targeted Retrofit Project. The board directed staff to finalize the design and bidding documents and solicit bid proposals. The designer's estimate for this project was \$98,384.

Proposals were sent out to eight contractors familiar with this kind of work and one proposal was returned. Outdoor Lab Landscape Design Inc. submitted a proposal for \$97,675.

Based on staff review, Outdoor Lab Landscape Design Inc. meets the requirements and we would recommend approval of this proposal. Outdoor Lab has completed a number of projects in the district and has done so successfully.

Applicable District Goal and Action Item:

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

Action Item: Implement retrofit water quality improvement projects.

Staff Recommendation:

Accept the proposal and award the Eastside Boys and Girls Club to Outdoor Lab Landscape Design Inc. Direct staff to prepare and mail the notice of award, prepare the draft agreements and review the required submittals.

Financial Implications:

This project was planned in the approved 2020 Targeted Retrofits budget. In addition, Stormwater Impact Fund dollars will also be allocated to this project.

Board Action Requested:

Accept the proposal and award the Eastside Boys and Girls Club to Outdoor Lab Landscape Design Inc. Direct staff to prepare and mail the notice of award, prepare the draft agreements and review the required submittals.

Memorandum

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

From: Brandon Barnes, PE, Water Resources Engineer, Erin Anderson-Wenz, PE, Sr Water Resources Engineer, and Brad Lindaman, PE, RWMWD Engineer

Subject: Twin Lake Outlet Operation Plan

Date: February 27, 2020

c: Tina Carstens, RWMWD Administrator

Background

Barr staff presented the Twin Lake flood-risk mitigation feasibility study at the December 11, 2019 board meeting. A gravity outlet at elevation 872.2 was determined as the most feasible flood-risk mitigation alternative. The selected outlet alternative included a detailed operation plan describing when the valve or gate associated with this outlet could be opened and when it should be closed. This alternative was based on Twin Lake flood-risk mitigation objectives presented in the feasibility study, as well as the assessment of downstream impacts, site and wetland impacts, and flexibility for long-term management.

At the December board meeting, the managers directed Barr to begin final design for modifying the outlet from Twin Lake, including development of a detailed operation plan, discussions with permitting agencies, and determination of the drainage and access easements necessary for the proposed modification.

Following the December board meeting, Barr staff have continued working on the final design of the Twin Lake outlet and operation plan. The proposed operation plan is a requirement of the MnDOT permit application, and its implementation reduces the risk to flood prone properties downstream. The operation plan includes conditions when the gate in the new outlet should be closed to minimize increases in water levels downstream. In the meantime, staff have received comments from the managers suggesting that small increases in the downstream floodplain could be considered, which could affect operation of the outlet. Prior to finalizing the MnDOT permit application which includes a description of the proposed operation plan, Barr requests direction from the managers on what the acceptable increase is in locations where there are habitable structures within the floodplain.

The outlet will include a gate which allows the Managers to make future modifications to the operation plan. The following sections summarize the operation plan developed as part of the feasibility study,

Requested Manager Action

Provide direction regarding the acceptable change to downstream peak water surface elevations that should be used to develop the operation plan for the Twin Lake outlet.

potential changes to downstream water levels as a result of possible modifications to the operation plan, and a request for direction from RWMWD managers regarding what the acceptable increase in peak water levels is downstream of the outlet.

Feasibility Study Operation Plan

The Twin Lake flood-risk mitigation feasibility study defined design criteria which were used to evaluate flood-risk reduction options for the Twin Lake subwatershed. The design criteria are described in Section 3.7 of the feasibility study and listed in the following table.

Table 1 Design Criteria Summary

Design Criteria	Permitting Authority
No increase in peak runoff rate during 2-year, 10-year, or 100-year event	RWMWD – Rule C MnDOT
No increase in downstream flood elevations	RWMWD – Rule D
Implement erosion and sediment controls	RWMWD – Rule E City of Little Canada – Fill Permit MPCA – NPDES Permit
Avoid, minimize, and mitigate wetland impacts	RWMWD – Rule F
Minimum 2-foot vertical offset from pipeline for pipes	BP
Minimum 4-foot vertical offset from pipeline for drainage ditches	BP
Pump or actively manage discharge	MDNR

The design criteria regarding no increase in downstream flood elevations was developed based on the RWMWD policy listed in Rule D: Flood Control of the District’s rule document. The District policy states:

It is the policy of the Board of Managers to:

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

To be consistent with the District policy, the feasibility study included an operation plan, which is discussed in Section 5.2.4.1 of the feasibility study and summarized below. One of the primary objectives of the operation plan is to minimize the potential for increases to the floodplain elevation near North Star Estates, where dozens of homes are within the floodplain and Gervais Lake, where the City and District have developed an Emergency Response Plan during periods of flooding for low homes on the lake. The operation plan developed as part of the feasibility study is listed below.

1. The gravity outlet would be opened from November 15–February 15 to allow a maximum of 10 cfs out of the system to lower the water level to 872.3 (the invert of the culvert below the railroad tracks).
2. The gravity outlet would be closed the remainder of the year under most normal rainfall and flooding conditions.
3. The outlet would be closed 12 hours prior to a forecasted rainfall event greater than 2 inches. The outlet could be reopened after the water level in Waldo Pond begins to recede.
4. The gravity outlet would be opened between February 16 and November 14 if any of the following occur:
 - a. The water level in Twin Lake reaches 873.5
 - b. The water level in Waldo Pond exceeds 877.0 and water is conveyed north into Twin Lake (the outlet would be opened to allow the water from Waldo Pond to flow back to the MnDOT drainage system and not be trapped in Twin Lake),

If the gravity outlet is opened during this period, it is assumed that it would be closed 12 hours prior to a forecasted rainfall event greater than 2 inches, and would remain closed until the water level in Waldo Pond begins to recede, the water level in Owasso Basin is within 0.4-feet of the outlet, and downstream water levels have receded.

Questions related to the proposed outlet design and operation plan

Following authorization from the RWMWD managers to proceed with final design of the outlet and development of the operation plan, there have been comments related to the operation plan presented in the feasibility study. Two questions that have been asked are:

1. Why can't the outlet remain open all year?
2. Why wasn't a backflow preventer considered?

The first question is, *Why the outlet can't remain open all year?* Or in other words, why not simply put in an open pipe without a gate? There are two concerns with installing an open pipe. The first is that it allows stormwater runoff from the interstate drainage system to be conveyed north towards Twin Lake during intense storm events, which can have a negative impact on Twin Lake's water quality. The second concern is that there is potential to increase the discharge rate and volume downstream near Owasso Basin and Gervais Lake. An increase in discharge and volume at these locations results in an increase to

the 100-year peak water level in locations where the 100-year peak water level is already above existing structures. Increasing downstream floodplain elevations is inconsistent with the District's policy.

The second question is, *Why can't a backflow preventer or flap-gate be used to only allow drainage out of Twin Lake, blocking potential future backflows from the interstate drainage system?* A back-flow preventer would stop stormwater runoff from the interstate from being conveyed north into Twin Lake and reduces the risk for adverse water quality impacts. However, it does not mitigate the increase the 100-year elevation in Gervais Lake or the potential to increase the water level in Owasso Basin.

The following tables summarize the change in peak water surface elevations in Twin Lake, Owasso Basin, and Gervais Lake for three different types of outlet configurations 1. An outlet that remains open all year, 2. An outlet with a back-flow preventer, and 3. An outlet that follows the operation plan presented in the feasibility study.

Table 2 Change in the 100-year peak water surface elevation

Location	Outlet that remains open	Outlet with a back-flow preventer	Operation Plan presented in the feasibility study
Twin Lake	-0.50	-0.54	-0.2 ¹
Owasso Basin	0.00	0.00	0.00 ¹
Gervais Lake	0.08	0.08	0.00 ¹

¹ Elevation change based on continuous simulation. Methodology presented in the feasibility study.

Red bold values indicate an increase in the peak water surface elevation where there are habitable structures located below the peak water level.

Table 3 Change in the 10-year peak water surface elevation

Location	Outlet that remains open	Outlet with a back-flow preventer	Operation Plan presented in the feasibility study
Twin Lake	-0.64	-0.54	0.00 ¹
Owasso Basin	0.01	0.02	0.00 ¹
Gervais Lake	0.04	0.01	0.00 ¹

¹ Elevation change based on continuous simulation. Methodology presented in the feasibility study.

Red bold values indicate an increase in the peak water surface elevation where there are habitable structures located below the 10-year peak water level.

The operation plan in the feasibility study was developed to prevent small increases to peak water levels downstream of the proposed outlet.

Ongoing Evaluation of the Operation Plan

Further evaluation and optimization of the operation plan presented in the feasibility study is being completed in parallel with the final design of the outlet structure. The outlet will be designed to provide flexibility to modify the operation plan without making structural modifications to the structure.

Optimizations that are being evaluated are:

1. Lowering the elevation that would trigger opening the outlet during spring and summer months (feasibility study suggests 873.5), allowing the outlet to be open more frequently.
2. Evaluating if the period defined as “winter months” can be extended. In other words, could the gate be permanently opened earlier in the fall or later in the spring without adversely impacting downstream floodplain elevations.

The new outlet will require a MnDOT drainage permit prior to connecting to the interstate drainage system. The MnDOT permit submittal must describe the proposed operation and maintenance plan for the new outlet.

The operation plan presented in the feasibility study presents a way to mitigate potential for increases to downstream peak water levels. We understand there have been questions related to the significance of the increases. To finalize the operation plan for permitting we are requesting direction from the Managers to define an acceptable change to downstream peak water surface elevations that should be used to develop the operation plan.

Project work plan

Date: February 25, 2020
Project: **Watershed Management and Implementation Plan Updates**
Project #: 23/62-1006.00 200 "2020" 005 "WMP Updates"

Project team

RWMWD staff: Tina Carstens
Barr staff: Erin Anderson Wenz, Brad Lindaman, Greg Williams

Scope of work

The purpose of this project is to update the 2017 RWMWD Watershed Management Plan (RWMWD Plan) to reflect findings and studies and projects from recent years and to update the implementation plan with several new implementation items that have arisen since the Plan was adopted in 2017.

The current RWMWD Plan was submitted for formal 60-day review in June 2016 and revised per comments received during that period. After formal review of the RWMWD Plan, the RWMWD held a public hearing on the RWMWD Plan on November 2, 2016. BWSR subsequently approved the RWMWD Plan on March 22, 2017. The RWMWD Board of Managers formally adopted the RWMWD Plan on April 5, 2017.

Since that time, work in many parts of the District has evolved, leading to new priorities and efforts not originally described in the RWMWD Plan. As stated in the Plan, the RWMWD recognizes that the District's plan may need to be periodically amended to remain useful as a long-term planning tool and maintain state grant funding eligibility for District projects. Staff envision a number of areas that may warrant updates, including:

Potential changes to Section 1.0

More discussion of topical items such as chlorides, harmful algal blooms, PFAS, climate change resiliency and adaptation efforts, and potential wetland banking options within the District.

Potential changes to Section 2.0

Several subwatershed sections warrant updating to reflect Beltline Resiliency study efforts, more detailed and updated drainage information, feasibility studies completed and planned, and capital improvements completed and planned.

The subwatershed sections most likely to warrant some updates include: Willow Creek, Kohlman Creek, Gervais Creek, Gervais Lake, Keller Lake, Lake Phalen, St. Paul Beltline, Snail Lake, Twin Lake, Grass Lake (including more information on West Vadnais Lake), Wakefield Lake, and Bennett Lake.

It is assumed that the time-dependent, data heavy graphics in Section 2.0 (such as water quality charts or maps of permitting activities in subwatersheds) will not be updated as a part of this effort. This information will continue to be made available on the District's website.

Potential changes to Section 4.0

Description of new lake level stations and resilience planning efforts and additions and changes to Table 4-1 Implementation Program that reflect the District's more current plans through 2026.

Process

Plan amendments shall be drafted and submitted to the Board of Managers for review and approval at the September Board meeting. Following Board approval, the Plan amendment will be distributed to the plan review authorities.

The plan amendment process is described in detail in the current RWMWD Plan (**Section 4.5.3 Plan Update and Amendments**, excerpted below in italics).

The RWMWD may revise its Plan through an amendment prior to a Plan update if (1) minor changes are required, (2) problems arise that are not addressed in the Plan, or (3) new projects need to be added to the implementation program (see Section 4.2. However, this Plan, authorities, and official controls of the RWMWD will remain in full force and effect until a Plan revision is approved by BWSR. All amendments to this Plan will follow the procedures set forth in this section, or as required by Minnesota laws and rules (as revised). Plan amendments may be proposed by any person to the RWMWD Board, but only the RWMWD Board may initiate the amendment process. All recommended plan amendments must be submitted to the RWMWD in writing, along with a statement of the problem and need, the rationale for the amendment, and an estimate of the cost.

4.5.3.1 General Amendment Procedure

The RWMWD will follow the plan amendment process described in Minnesota Statutes 103B.231, Subd. 11 unless the proposed amendment is considered minor according to the criteria described in Minnesota Rules 8410 (see Section 4.5.3.2). In accordance with Minnesota Statutes 103B.231, Subd. 11, the plan amendment process (for non-minor amendments) is the same as the Plan review process and is as follows:

- *The RWMWD must submit the amendment to the RWMWD cities, Washington County, Ramsey County, Washington Conservation District, Ramsey Soil and Water Conservation District, state review agencies (the MDNR, MPCA, MDA, and MDH), the Metropolitan Council, and BWSR for a 60-day review.*
- *The RWMWD must respond in writing to any concerns raised by the reviewers.*
- *The RWMWD must hold a public hearing on the proposed amendment.*
- *The RWMWD must submit the revised amendment and response to comments to the BWSR for 90-day review and approval.*

The RWMWD will consider sending drafts of proposed general plan amendments to all plan review authorities to receive input before beginning the formal review process. Examples of situations where a general plan amendment may be required include:

- *Addition of a capital improvement project that is not included in the existing Plan.*
- *Addition of new RWMWD action items or programs that have the potential to create significant financial impacts or controversy.*

4.5.3.2 Minor Plan Amendments

The minor plan amendment process is more streamlined than the general plan amendment process. The RWMWD will consider changes to be a minor plan amendment if it satisfies all of the criteria established in Minnesota Rules 8410, which include the following (as applied to the RWMWD):

- *BWSR has either agreed that the amendments are minor or failed to act within 5 working days of the end of a 30-day comment period (unless an extension is mutually agreed to with the RWMWD).*
- *The RWMWD has sent copies of the amendments to the plan-review authorities for review and comment allowing at least 30 days for receipt of comments, has identified the procedure for minor amendment is being followed, and directed that comments be sent to the RWMWD and BWSR.*
- *No county board has filed an objection to the amendments with the RWMWD and BWSR within a 30-day comment period (unless an extension is mutually agreed upon by the county and the RWMWD).*
- *The RWMWD has held a public meeting to explain the amendments and published a legal notice of the meeting twice, at least 7 days and 14 days before the date of the meeting.*
- *The amendments are not necessary to make the plan consistent with an approved and adopted county groundwater plan.*

If an amendment is considered minor, the RWMWD will follow the following review process, consistent with Minnesota Rules 8410.0140 and Minnesota Statutes 103B.231 Subd. 11:

1. *The RWMWD will send copies of the proposed minor plan amendment to the affected counties, cities, soil and water conservation districts (SWCDs), the Metropolitan Council, and the state review agencies for review and comment.*
2. *The RWMWD will hold a public meeting to explain the amendments and publish a legal notice of the meeting twice, at least 7 days and 14 days before the date of the meeting. The RWMWD will also post the notice of the public meeting on the RWMWD website and mail the notices to each affected city, township, and county not less than 14 days before the public meeting.*
3. *The minor plan amendment process is more streamlined than the general plan amendment process since it requires only one (30-day) review. As noted in Minnesota Rules 8410, the following actions will not require a plan amendment:*

- *Formatting or reorganization of the plan*
- *Revision of a procedure meant to streamline administration of the plan*
- *Clarification of existing plan goals or policies*
- *Inclusion of additional data not requiring interpretation*
- *Expansion of public process*
- *Adjustments to how an organization will carry out program activities within its discretion*
- *For changes not requiring a plan amendment, the RWMWD will distribute replacement pages in accordance with Minnesota Rules 8410.0140, Subp. 1a and Subp. 5.*

4.5.3.3 Amendment Format and Distribution

The RWMWD will prepare and distribute plan amendments in a format consistent with Minnesota Rules 8410. The RWMWD will maintain a distribution list of everyone who receives a copy of the Plan. Within 30 days of adopting an amendment, the RWMWD will distribute copies of the amendment to everyone on the distribution list and post the amendment on the RWMWD website.

Budget

The approximate cost for Barr to complete the work outlined above is **\$10,000**.

Schedule

Project tracking

Project milestones

Milestone	Estimated date	Actual date
Inventory completed implementation items in 2017 Plan and document "Signs of Success"	May, 2020	
Draft preliminary changes to District-wide Inventory and Assessment (Section 1)	May, 2020	
Draft preliminary changes to subwatershed sections (Section 2)	May, 2020	
Draft preliminary changes to implementation section (Section 4)	May, 2020	
Workshop with RWMWD managers to discuss preliminary and additional ideas for plan amendments	May/June 2020	
Identified draft plan amendments are drafted and submitted to the Board for final review and approval	August 24, 2020 (in time for September Board packet)	
Plan amendments sent to agencies for review (if approved by managers at September Board meeting)	September 15, 2020	
Plan amendments adopted (assuming minor amendment timeline)	December 2020	

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Administrator's Report

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MEMO

TO: Board of Managers and Staff
FROM: Tina Carstens, Administrator
SUBJECT: March Administrator's Report
DATE: February 26, 2020

A. Meetings Attended

Monday, February 3	12:00 PM	Staff training meeting
Tuesday, February 4	1:00 PM	Met with Manager Ward
Wednesday, February 5	2:00 PM	Washington Co Water Consortium
	6:30 PM	Board Meeting
Thursday, February 6	8:00 AM	Water Resources Conference Planning
	11:00 AM	Administrator's Meeting
Monday, February 10	Various Times	Staff Performance Reviews
Tuesday, February 11	Various Times	Staff Performance Reviews
Wednesday, February 12	9:00 AM	Staff Performance Review
Thursday, February 13	10:00 AM	Metro I-Net meeting
	12:00 PM	Staff Performance Review
Friday, February 14	Various Times	Staff Performance Reviews
Tuesday, February 18	9:00 AM	Met with City of Little Canada
	1:00 PM	Washington County Flood Meeting
Thursday, February 20	8:00 AM	Met with Barr re: Plan update process
	10:00 AM	Met with Commissioner Frethrem
Friday, February 21	9:30 AM	Met with Manager Swope
Tuesday, February 25	1:00 PM	Met with Manager Aichinger

B. Upcoming Meetings and Dates

Ramsey County Water Meeting	March 12, 2020
MAWD Days at the Capitol	March 18-19, 2020
April Board Meeting	April 1, 2020
Wetland Special Meeting	TBD
May Board Meeting	May 6, 2020
WaterFest	May 30, 2020
June Board Meeting	June 3, 2020
July Board Meeting	July 1, 2020

C. Communications and Outreach Coordinator Position Update

We closed the job posting on February 20th with more than 400 resumes received. My initial screening brought the pool to a little over 100 applicants. A staff team is currently working to screen again to come down to approximately 20-25 applicants to hold phone interviews with. From there I hope to bring in less than 10 applicants for in person interviews. We have a number of really great applicants and I am very hopeful that we have a great fit for RWMWD in this group!

D. Board of Managers Meeting Minutes

After our discussion last month, I asked our recording secretary to make some changes to how she completes our meeting minutes. Amanda indicated to me that has other clients that complete their minutes in the format you have requested. She also indicated that she can continue to refine the formatting as she gets feedback each month from the staff.

E. Community Conversation: Water Management in Northern Ramsey County

As we have talked about in the past, Ramsey County Commissioner Frethem is hosting a public meeting regarding water management in northern Ramsey County. A flier for the meeting is attached.

A state climatologist will speak to talk about the climate conditions. Three watersheds (Rice Creek, Vadnais Lake Area, and Ramsey-Washington Metro) will speak regarding our role in water management. The cities of Shoreview and Vadnais Heights as well as county public works and parks representatives will also speak. The last part of the meeting will include a moderated question and answer session. I will be presenting at the meeting and Brandon Barnes from Barr will also be there. You are all welcome to also attend to listen in on the conversation.

**Join
us!**



COMMUNITY CONVERSATION

WATER MANAGEMENT IN NORTHERN RAMSEY COUNTY

Join your neighbors and local governmental bodies to learn about the local impacts of climate change, the government's role in managing water and next steps for addressing flooding in northern Ramsey County.



Information and background

State Climatologists will share how climate change is impacting northern Ramsey County residents.



Systems and strategy

Many governmental bodies have a role in water management. Learn how agencies have been communicating and collaborating to address issues.



Conversation

Submit your questions and comments. A moderated question and answer session will allow immediate feedback.

**Thursday, March 12 from 6 p.m. to 8 p.m.
at the Shoreview Community Center**

For more information visit <https://www.facebook.com/events/525592761418558/>
or contact the Ramsey County District 1 office at district1@co.ramsey.mn.us or
651-266-8355

F. Comments on Beltline Resiliency Study

Attached are two more comment letters that were received from representatives in the city of North St. Paul and St. Paul. This is in addition to the six other stakeholders that commented on the study. As I reminder, the table of comments received is copied below. I would like some guidance on how the board would like to respond and/or incorporate these comments. We could include the comments in an appendix to the study itself. Staff could respond to the comments and have them approved by the board to be sent to the commenters. We could use the comments to be addressed as we continue to work through our feasibility studies for each area. Or we could do all three.

Date Received	Name	Stakeholder Title
01/06/2020	Bruce Copley	Shoreview Resident
01/21/2020	Molly Churchich	Ramsey County Public Works
01/24/2020	Bill Zajicek	St. Paul Resident
01/30/2020	Wes Saunders-Pearce	City of St. Paul Water Resources
01/31/2020	Stuart Knappmiller	St. Paul Resident
02/03/2020	Mark Maloney	City of Shoreview Public Works
02/06/2020	Morgan Dawley	City of North St. Paul Engineer
02/26/2020	Wes Saunders-Pearce	City of St. Paul Water Resources

January 24, 2020

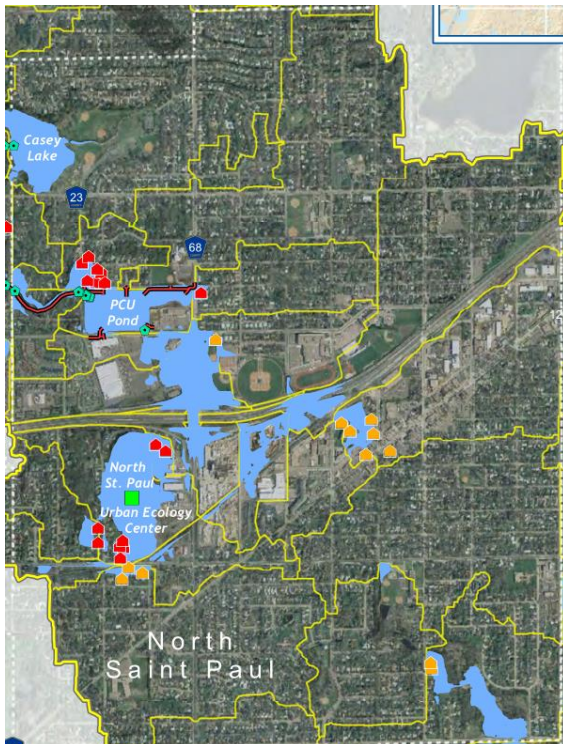
Tina Carstens
 Administrator
 Ramsey Washington Metro Watershed District
 2665 Noel Drive
 Little Canada, MN 55117

Re: Beltline Resiliency Study Comments
 WSB Project No. 015313-000

Dear Tina:

On behalf of the City of North St. Paul, WSB has reviewed the draft Beltline Resiliency Study and offer the following comments:

1. The city of North St. Paul completed a flood study in 2017. The result of the city's study identified 7 focus areas. Only 2 of the 7 focus areas identified in the NSP study correspond to flood issues in the RWMWD study. Would the watershed district consider including the additional detail of the City's study into their study to help identify upstream storage areas? Partnering on the modeling could help resolve some differences and show a shared benefit between the district and local flooding concerns. See the example below showing the subwatershed inputs between the two models.

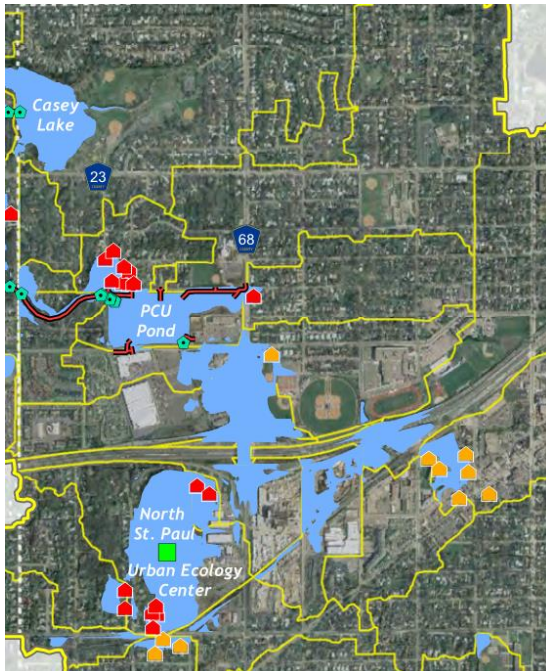


Beltline Flood Study –Subwatersheds (yellow)

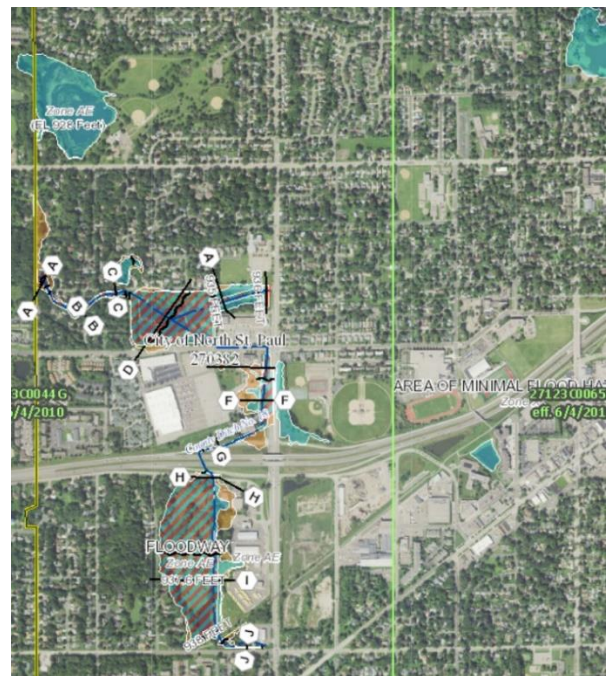


NSP Flood Study – Subwatersheds (red)

2. Was additional storage in Southwood Nature Preserve by Cowern Elementary in North St. Paul through dredging the ponds downstream from Southwood considered? This area has been previously studied.
3. Was providing more storage in PCU Pond considered?
4. The focus of the study was on Potential District Flood-Risk Areas near district managed water bodies, facilities, or previous projects. Local flooding issues were not targeted as part of the study which limits opportunities for collaboration with the Cities. The use of a 100-year, 4-day Atlas 14 rainfall event (8.3 inches) as the critical event is disconnected from existing FEMA FIRM mapping assumptions and building code use of the 100-year, 24-hr rainfall event as the basis of establishing flood plain elevations. Initial review of the results in some cases show inundation areas that exceed existing mapped 500-year flood plains. The implications of public release of these inundation maps is concerning see example below:



RWMWD – Beltline Inundation Areas




FEMA – Floodplain Map

5. Cost estimates for all the improvements outlined in the study range from \$142M (-50%) to \$568M (+100%) for mitigation of 227 potentially flood-prone structures. No priority or value was assigned to structures protected and it does not appear that critical infrastructure (e.g. utilities, major access routes) were considered in the analysis for protection. It also is not clear the frequency at which the identified structures would be impacted (e.g. 2, 10, 50 year events). Has a funding mechanism been identified?
6. Has there been any verification that structures identified as “flood prone” have actually had flooding issues in the past? Has there been any categorizing of the “flood prone” structures to identified critical infrastructure such as schools, public buildings, emergency responders, etc?
7. Are any of the phases of project stand alone or do they all have to be sequenced in order to observe the identified benefit. What is the risk to the resiliency study if feasibility or permitting road blocks are encountered?

8. Local and county infrastructure improvements are planned in the near future for areas in North St. Paul including McKnight Road and 17th Ave. It should be noted that this work should be coordinated as much as possible with any potential flood improvements.
9. How will stakeholders be engaged in this process moving forward?
10. How was the DNR floodplain remapping that is currently underway (scheduled through April 2020) considered in this process?

Sincerely,

WSB



Morgan Dawley, PE
City Engineer, North St. Paul



Heather Nelson, PE
Water Resource Engineer



CITY OF SAINT PAUL
Melvin Carter, Mayor

375 Jackson Street, Suite 220
Saint Paul, Minnesota 55101-1806

Telephone: 651-266-8989
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Web: www.stpaul.gov/dsi

February 26, 2020

Ms. Tina Carstens, Administrator
Ramsey-Washington Metro Watershed District
2665 Noel Drive
Little Canada, MN 55117

RE: Beltline Resiliency Study

Dear Ms. Carstens:

Thank you for seeking stakeholder input on the Beltline Resiliency study. The review meeting on January 17, 2020 was very informative. The breadth of the 2019 draft study is considerable and reflects the importance and complexity involved to increase system resiliency against flooding.

The City developed a Climate Action & Resilience Plan which was adopted by the City Council in December 2019. We look forward to conversations with how RWMWD activities towards advancing the Beltline Resiliency study over the coming years can mutually support our respective goals.

In particular we are optimistic about the District's proposal for active management of Lake Phalen water levels. Additionally, we recommend engaging with city staff before initiating feasibility studies for strategies involving flood storage on city-managed lands. Key areas in the study include near Ames Lake, Hayden Heights Recreation Center, and Prosperity Park/Prosperity Heights Park. Staff may have local insight regarding constraints or opportunities that could inform further work.

We appreciate our relationship with your agency and the opportunity to express support for the Beltline Resiliency study. We look forward to partnering with the RWMWD on a variety of initiatives and welcome additional dialogue on potential further work.

Sincerely,

Wes Saunders-Pearce
Water Resource Coordinator

cc: Bruce Elder, Sewer Utility Manager; Dept of Public Works
Alice Messer, Design and Construction Manager; Dept of Parks and Recreation
Luis Pereira, Planning Director; Dept of Planning and Economic Development
Saint Paul Water Resource Work Group

G. Governance Manual Table of Contents

Last fall I attended training from MAWD regarding watershed governance. At that training there was discussion about having governance manuals. This manual establishes clear written policies, procedures, and instructions for the management of District activities and accounts, complete recordkeeping and records management, and separation of duties among District staff, managers, and contractors. This manual will generate some new material but will also pull together in one document policies and procedures that already exist.

A number of watersheds have put together this type of manual for their district and board of managers. I've started to pull together templates and examples of other watershed's governance manuals. Attached to this memo is a draft table of contents so you know what to expect with this manual. I would expect to have a draft for you to comment on by our May board meeting. Take a look at the table and contents and we can discuss if there are questions or if you see any gaps.



Governance Manual
Draft Table of Contents
March 2020

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H. Metro I-Net Joint Powers Agreement Discussion

Metro I-Net is a department of the city of Roseville that serves as our IT consultant since shortly after we moved into our new building in 2005. Metro I-Net started in 1999 as a collaboration between Roseville and Mound View and now has grown to 35 member organizations that receive full IT services. When the creator and manager of Metro I-Net retired in the fall, the city manager of Roseville started a subgroup to discuss the possibility of moving Metro I-Net to a joint powers entity. A memo from the city of Roseville is attached here. At this time they are looking for each entity to confirm that they are interested in moving to this joint powers entity. Once they have those verbal interests from the entities work can be finalized on how the joint powers agreement looks and how the pricing will change because of this move.

Staff recommends that we do enter into the discussions regarding the joint powers entity. The service we have received from Metro I-Net has been excellent. They are responsive and easy to work with. As we move into a joint powers entity, I anticipate the service to only improve. I personally have not sought out other entities that provide the same services but others in the Metro I-Net cooperative have and provided the proposals they have received. Even with the increase (potentially 5%) in Metro I-Net charges, the value and fees can't be beat. Also in conversations with a smaller entity that just recently joined Metro I-Net, they explained their reasons for coming to Metro I-Net vs. a private entity. The concern with a private entity is that they are a for profit company vs. the non-profit Metro I-Net. The response time and service provided was subpar and did not feel individualized to their organization. Please review the memo and let me know if you have any questions.

Memo

To: Metro I-Net Members
cc: Pete Bauer & Jason Swalley, Metro I-Net
From: Patrick Trudgeon, Roseville City Manager
Date: February 13, 2020
Re: Metro I-Net Discussion Points

Metro I-Net originally started as a collaboration between Roseville and Mounds View to share IT resources in 1999. Since that time, Metro I-Net has grown to 35 member organizations receiving full IT services and 9 associate members receiving limited IT services.

Not only has the number of Metro I-Net members grown, each member agency's needs have grown exponentially. Some examples in recent years include the deployment of laser fiche, remote computer access, electronic door access, wireless access points, as well as body cam support for law enforcement.

Currently, Metro I-Net is under organizational control of the Roseville City Manager and Roseville City Council. All Metro I-Net employees are actually Roseville employees and fall under Roseville personnel policy, its liability coverage, and compensation structure. The Roseville City Manager makes employment decisions for Metro I-Net including the hiring and termination of employees. The City of Roseville includes the \$3.5 million Metro I-Net budget as part of its city budget.

While this arrangement has worked for many years, the following issues is making it harder to keep Metro I-Net sustainable into the future:

- Roseville City Council concern about the amount of Metro I-Net staff and the added liability and carrying costs for that amount of employees
- Roseville City Council concern the use of space within City given other city department space needs
- The Roseville employee compensation plan lags behind the market for other local governments and especially with LOGIS, a joint powers entity that provides IT services to many local governments in the Twin Cities. LOGIS has recruited several Metro I-Net staff members over the past couple of years
- As a result of the Roseville compensation plan and organizational structure, it is not possible to create the necessary executive leadership to guide the large \$3.5 million Metro I-Net enterprise

- Finally, it should be noted that the Roseville City Council could at any time decide to no longer be the lead agency for Metro I-Net and as a result, breakup Metro I-Net and let members figure out how to best provide IT services for their organization. It should be pointed out that Roseville City Council **has not** discussed doing this, but it is always a potential concern in the future.

Having Metro I-Net as a joint powers entity does provide members more direct control over governance of Metro I-Net, including costs, personnel, and policies and takes away uncertainty of the future of Metro I-Net.

The highlights of the joint powers agreement, as currently contemplated, are as follows:

- The initial members of the JPA will be the current members of Metro I-Net
- JPA is planned to become effective on 1/1/2021
- Metro I-Net will be governed by a Board of Directors with each member having a Director and Alternate designated
- Metro I-Net board meetings subject to open meeting law
- Each member will have the number of votes equivalent to its share of the budget
- Members will not be allowed to vote if they are in default of their financial obligation or violation of IT security policies
- Metro I-Net board will meet at least four times (Jan., April, July, Oct.) annually
- Metro I-Net board will have officers elected to 3-year terms
- Metro I-Net board will have power take all action in establishing and managing the operations of Metro I-Net
- Metro I-Net board will enter into a contract with a member to serve as the fiscal and operations agent for the organization
- Metro I-Net board will hire an executive director who will be responsible for day-to-day operations
- The executive director will have broad authority to run the operations of Metro I-Net
- The executive director can be terminated by a 2/3 vote of the Metro I-Net board
- The Metro I-Net board will establish an executive committee consisting of the 4 board officers and the member serving as the fiscal agent
- The executive committee would meet on a more frequent basis and work on duties as assigned by the board such as the budget and administrative issues
- The JPA outlines the schedule for the creation and consideration of the annual budget.
- The JPA creates 3 different classes of charges
 - Class 1 – Annual personnel & other operating expenses
 - Class 2 - Capital charges for hardware and software
 - Class 3 – Necessary additional charges
- The JPA outlines procedures for members to withdraw from Metro I-Net
- JPA creates a Metro I-Net “Associate” which is an entity that is receiving a contractual service from Metro I-Net
- The JPA has no termination date but does outline procedures to dissolve the organization

The new organizational structure will increase the costs for each member. The exact costs have not been determined yet and is highly dependent on the number of members that join the JPA. If all current members remain as members of the JPA, it is estimated that each member, including Roseville, would see an increase of 5% over the 2020 cost.

At this point, Roseville is seeking a commitment by your governing board to enter into a Metro I-Net joint powers agreement, subject to final review and approval of the JPA document. This will allow us to proceed in completing the drafting of the JPA and have an assurance on the costs to create the new entity.

* * * * *

Project and Program Status Reports

* * * * *

Memorandum

To: Board of Managers and Staff
From: Tina Carstens and Brad Lindaman
Subject: Project and Program Status Report – March 2020
Date: February 27, 2020

Project feasibility studies

Beltline resiliency study (Barr project manager: Brandon Barnes; RWMWD project manager: Tina Carstens)

The purpose of this study is to evaluate system-level flood damage reduction options, including real-time mechanical alteration of Lake Phalen and Keller Lake channel outlet structures, as well as other critical system infrastructure, to actively manage stormwater runoff from flood-prone areas tributary to the Beltline storm sewer in an effort to reduce flood levels that would otherwise impact homes. The evaluation will use the RWMWD stormwater model to simulate system-level modifications to evaluate how adjustments to outlet structures during a flood event may be able to optimize the existing system's performance to reduce flooding impacts to homes adjacent to RWMWD-managed water bodies.

This month, several stakeholders, represented by both public and private interests, provided the RWMWD with comments on the Beltline resiliency study. Based on managers' feedback at the December workshop, RWMWD staff have compiled comments, and Barr is waiting for further direction on the process to address comments.

Feasibility studies are underway for the Owasso Basin bypass concept, Willow Creek flood reduction concept, and Ames Lake area concept; each were highlighted in the resiliency study report and approved last month. In addition, the Keller channel control structure and the Phalen outlet modifications design have begun.

Twin Lake flood-risk mitigation feasibility study (Barr project manager: Brandon Barnes; RWMWD project manager: Tina Carstens)

The purpose of this study is to evaluate modifications that would reduce flood risk to habitable structures in the Twin Lake watershed in Little Canada and Vadnais Heights.

Barr presented the Twin Lake flood-risk mitigation feasibility study at the December board meeting. A gravity outlet at elevation 872.2 was determined to be the most feasible flood-risk mitigation alternative evaluated. The selected outlet alternative includes a detailed operating plan describing when the valve associated with this outlet could be opened and when it should be closed. The selected alternative is based on Twin Lake flood-risk mitigation objectives as well as the assessment of downstream impacts, site and wetland impacts, and flexibility for long-term management.

At the December board meeting, the managers directed Barr to begin final design for modifying the outlet from Twin Lake, including development of a detailed operating plan, discussions with permitting

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agencies, and determination of the drainage and access easements necessary for the proposed modification.

This month, Barr continued working on the final design for an outlet from Twin Lake, and further evaluated the operation plan presented in the feasibility study. In addition, Barr and RWMWD staff recently met with Mr. Frank Frattalone (the property owner) to discuss the easement acquisition needed for the new outlet and conveyance system. Mr. Frattalone was open to working with the RWMWD and is planning to grant easements for temporary site access, construction, and drainage to help facilitate the project. The Minnesota Department of Transportation (MnDOT) has requested access, and drainage easements are shown on the plans submitted for MnDOT review.

During February, Barr met onsite with British Petroleum (BP) Pipelines representatives to locate the petroleum pipeline near the proposed outlet pipeline alignment. The location of the pipeline is shown on the preliminary drawings, which will be submitted for BP review in March. BP will review the proposed drainage modifications for potential impacts to the petroleum pipeline and will verify that the proposed crossing is consistent with current design standards for pipeline crossings.

On February 18, Barr and the RWMWD met with the City of Little Canada to review the proposed outlet design and the operation and maintenance plan. The city indicated that it may be receptive to handling operation of the outlet and maintenance of the manhole and culvert, if the RWMWD is responsible for maintenance of the conveyance ditch. Coordination of operation and maintenance responsibilities will continue over the next few months. In March, preliminary plans will be submitted for city review.

Barr is currently developing an operation plan for the proposed Twin Lake outlet. The plan is required by the MnDOT permit application, and its implementation reduces the risk to flood-prone properties downstream. The operation plan includes conditions when the gate in the new outlet should be closed to minimize increases in water levels downstream. Since the feasibility study, we have received comments from the managers suggesting that small increases in the downstream floodplain could be considered. Prior to finalizing the operations plan and submitting the proposed design for MnDOT review, Barr requests direction from the managers on the acceptable increase. If guidance is provided during the March meeting, we anticipate that a submittal to MnDOT will occur toward the end of March.

Reestablishing the outlet includes obtaining approvals from BP, Xcel Energy, the City of Little Canada, and MnDOT. Barr anticipates that preliminary plans and permit submittals to BP, Xcel, and the city will occur in March. Submittal to MnDOT will depend on obtaining drainage, access, and construction easements, which could also happen in March. Provided that permits are in place, the outlet will likely be constructed this spring.

Federal Emergency Management Agency (FEMA) flood mapping updates (Barr project manager: Brandon Barnes; RWMWD project manager: Tina Carstens)

The purpose of this project is to apply Minnesota Department of Natural Resources (DNR) grant funding to use the RWMWD's updated stormwater model in order to develop information required to update the FEMA floodplain maps.

We are still waiting for comments from the Minnesota DNR on the hydraulic model inputs. Barr provided responses to DNR comments and updated models on August 29. The resubmittal included

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updates to supporting documentation to address DNR comments, minor updates to the models, and plans or survey information for inundation areas shown on the FEMA floodplain maps. In addition, we submitted preliminary floodway models for Kohlman Creek and the Lake Wabasso outlet.

We are also still waiting for final DNR approval on hydraulic model input parameters. Because of the extended DNR comment period, the process for providing the DNR with information to update the floodplain maps was extended and will now continue through into 2021. The DNR anticipates providing comments in spring or summer 2020. Work will continue after the DNR provides comments on the updated models.

Lowering of West Vadnais Lake outlet (Barr project manager: Erin Anderson Wenz; RWMWD project manager: Tina Carstens)

The purpose of this project is to provide final plans and specifications and the permitting required to lower the 15-inch outlet of West Vadnais Lake to an inlet elevation of 881.0.

This period, Barr continued developing the plans, specifications, and contract language for lowering the West Vadnais Lake outlet. The construction cost associated with this effort is expected to be well below the \$175,000 threshold, making a formal public bidding process unnecessary. This approach will allow a contractor to start working sooner than a formal process would.

Several permits are required for the project. The status of each is described below.

- MnDOT access permit: submitted and waiting for response
- Little Canada right-of-way permit: submitted and granted
- West Vadnais Lake outlet joint permit application (Wetland Conservation Act/U.S. Army Corps of Engineers): submitted and granted
- Minnesota DNR work in public waters permit: submitted and waiting for a response
- Saint Paul Regional Water Services access agreement: granted

On February 18, Barr and the RWMWD met with the City of Little Canada to review the design of the proposed project and traffic control on Vadnais Boulevard during construction; city staff were unable to attend last month's stakeholder meeting.

In addition, the RWMWD is incorporating electronic carp control features into the design that would both discourage carp in West Vadnais Lake from entering the outlet and traveling downstream, as well as provide a space to corral carp gathering near the outlet for removal from the lake. This addition should not significantly delay the work.

Plans and specifications are expected to be completed within the next few weeks. The work will likely be completed as a part of the RWMWD's 2020 CIP, if the contractor has time. If not, bids will be solicited among a small group of contractors. Regardless, the work will be completed soon, assuming that permits are secured.

Modeling of 500-year Atlas 14 district-wide (climate change scenario): flood map generation for future outreach efforts (Barr project manager: Brandon Barnes; RWMWD project manager: Tina Carstens)

The purpose of this project is to use measured water-surface elevations to verify and fine-tune water surface elevations calculated by the RWMWD stormwater model. Following validation, the model will be used to simulate larger rainfall events, including the 500-year rainfall depth. The confidence limit (or uncertainty) associated with the 500-year flood elevation will be used to develop inundation maps that will allow for evaluation of how future climate change may affect flood inundation areas within the RWMWD, and will be used for discussion with stakeholders when evaluating future flood-risk reduction projects.

Barr revised the risk map figures and provided final maps to the RWMWD. One set of figures illustrates the uncertainty in the 100-year floodplain, the second illustrates annual flood risk, and the third shows flood risk over a 30-year period. The maps will be used in community outreach activities with the cities and other entities in the RWMWD.

Hillcrest Golf Course (multi-use) (Barr project manager: Erin Anderson Wenz; RWMWD project manager: Paige Ahlborg)

The purpose of this project is to identify and describe the existing land, water, and stormwater conditions throughout the former Hillcrest Golf Course site to help the City of Saint Paul create the Hillcrest master plan that embodies and integrates the RWMWD's approach to stormwater management and natural-resources protection and restoration practices. The plan will determine future land uses and a new street network for the 112-acre former golf course on Saint Paul's East Side. In July, the Saint Paul city council approved bonds for the Saint Paul Port Authority to purchase the site.

This period, Barr finalized the technical report of the site's existing conditions, to be used as a part of the city's planning process. Work will continue into 2020 and depends on the project's evolution and the city's planning work and process.

Wetland restoration site search (Barr project manager: Karen Wold; RWMWD project manager: Paige Ahlborg)

The purpose of this project is to conduct a desktop review to identify potential wetland restoration sites throughout the RWMWD. It was initiated because the Minnesota Wetland Conservation Act rules and statute are changing focus to allow wetland replacement in areas outside of the RWMWD, because there are no wetland banks within the RWMWD, and because the RWMWD has a "no net loss" policy for wetlands within its boundaries.

A workshop to discuss project findings and related next steps will be scheduled in April or May 2020.

Battle Creek per- and polyfluoroalkyl substances (PFAS) (Barr project manager: Erin Anderson Wenz; RWMWD project manager: Tina Carstens)

The purpose of this project is to follow the emerging information on PFAS in foam and water in Battle Creek, including tracking monitoring and source identifications efforts, in order to attend meetings to relay communications to RWMWD staff and managers.

On January 29, District and Barr staff met with the Minnesota Pollution Control Agency (MPCA) and Minnesota Department of Health (MDH) to discuss recent Battle Creek monitoring results that indicate high levels of PFAS in foam collecting in some areas of the creek. The MPCA and MDH shared information on current source identification efforts, as well as guidance for the public on interacting with potentially PFAS-contaminated sites. The MPCA and MDH are willing to speak at an upcoming board meeting.

2020 feasibility studies stemming from the Beltline resiliency study

Scope summaries for these new projects were presented in last month's board packet.

- Owasso Basin bypass pipeline feasibility study (Barr project manager: Matt Metzger; RWMWD project manager: Tina Carstens)
- Willow Creek flood damage reduction feasibility study (Barr project managers: Erin Anderson Wenz and Leslie DellAngelo; RWMWD project manager: Tina Carstens)
- Ames Lake flood damage reduction feasibility study (Barr project managers: Erin Anderson Wenz and Leslie DellAngelo; RWMWD project manager: Tina Carstens)
- West Vadnais to South I-694 conveyance feasibility study (Barr project managers: Erin Anderson Wenz and Sam Redinger, RWMWD project manager: Tina Carstens)

This period, Barr formulated how the initial information-gathering phase of each study (surveys of structures and topography, utilities, as-builts, property ownership, etc.) could be completed simultaneously to increase efficiency. In the coming weeks, the relevant cities in each study area will be approached about contacting homeowners in the survey areas, as well as to request information needed for each feasibility study.

Lake studies, watershed restoration and protection projects, and total maximum daily load (TMDL) reports

Water management plan updates (Barr project manager: Erin Anderson Wenz; RWMWD project manager: Tina Carstens)

The purpose of this project is to update the 2017 RWMWD watershed management plan to reflect findings and studies from recent years and to update the implementation plan with several new implementation items that have arisen since the plan was adopted.

A scope summary describing this new 2020 project is included in this month's board packet for the managers' review and consideration.

Water-quality and project monitoring

Automated lake-monitoring systems (Barr project manager: Chris Bonick; RWMWD project manager: Eric Korte)

The purpose of this project is to install an automated system to monitor lake levels throughout the RWMWD and allow real-time transfer of data to the RWMWD's website for public consumption.

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Xcel Energy originally informed the RWMWD that installation of power lines and electrical meters at the five stations would be completed by late February. As of the date of this memo, Xcel has not yet completed work at any of the stations.

Barr has been programming, bench testing, and prepping the monitoring equipment as installation progresses. Each station's monitoring equipment will be ready to install as soon as Xcel completes installation of the power lines and electrical meters.

Capital improvements

Wakefield Park/Frost Avenue stormwater project (Barr project manager: Michelle Kimble; RWMWD project manager: Paige Ahlborg)

The purpose of this project is to work with the City of Maplewood and its consultants to implement a site plan that integrates stormwater management features with associated educational elements for the northern portion of Wakefield Park.

Final restoration of the basins, including all plantings, will take place in spring 2020. A weir modification is required in the grit chamber upstream of Wakefield Lake, which will likely occur over the winter when there is less base flow in the system.

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

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

Bids for the Boys and Girls Club East Saint Paul stormwater project were received on February 24. The project involves retrofitting highly degraded asphalt parking to include 24 stalls of permeable pavers.

The bids will be reviewed and processed, and a recommendation of award will be made to the board at the March meeting.

Target store retrofit projects (Barr project manager: Leslie DellAngelo; RWMWD project manager: Paige Ahlborg)

The purpose of this project is to design, provide bid assistance for, and oversee construction of BMP retrofits at two Target retail stores and a Motel 6.

Construction drawings for both retail locations are underway. Revisions will be made to the designs presented to the board at the February meeting; Target recently (since the last board meeting) approved significant parking-stall loss for placement of surface BMPs at both locations (40 stalls at the East Saint Paul Target and 80 stalls at the North Saint Paul Target). The allowable parking-stall loss will likely eliminate the underground BMPs from the previous designs. Draft construction plans will be provided to corporate Target staff and the RWMWD for review this spring.

Aldrich Arena stormwater retrofit (Barr project manager: Matt Metzger; RWMWD project manager: Paige Ahlborg)

The purpose of this project is to incorporate green-infrastructure stormwater management into the Aldrich Arena campus renovations. The parking lot will be full-depth reclaimed by Ramsey County, which

itself would not trigger the need for a RWMWD permit. The partnership between the RWMWD and Ramsey County will achieve treatment of runoff from the parking lots where none currently exists. A formalized joint-powers agreement outlining the partnership cost-sharing, roles, and responsibilities was crafted between the RWMWD and Ramsey County.

As described last month, rain garden grading, repair, and reconstruction are complete. Plantings will be installed in 2020. The RWMWD's portion of the project is expected to be complete by early summer 2020.

CIP project repair and maintenance

CIP maintenance/repairs 2020 project (Barr project manager: Greg Nelson; RWMWD project manager: Dave Vlasin)

The purpose of this project is to maintain the 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 municipal separate storm-sewer system (MS4) requirements.

Fitzgerald Excavating & Trucking, Inc. continues to make good progress on the overall project. Pond cleanout has been substantially completed on four of the six ponds, with sites 7 and 9 remaining. Work is on track; pond excavation sites are a priority during the winter construction period.

Beltline/Battle Creek tunnel five-year inspection (Barr project manager: Sam Redinger; RWMWD project manager: Dave Vlasin)

The purpose of this project is to maintain the existing Beltline and Battle Creek tunnel systems and infrastructure owned and operated by the RWMWD.

The Barr and RWMWD team successfully completed the in-pipe inspections of the East Mechanic, Lake Phalen, Mainline, and Beaver Lake branches. Approximately 27,700 feet of pipe were inspected over four days. The team was unable to successfully complete the in-pipe inspection of the Mississippi River branch, only completing 389 feet before egressing the tunnel and cancelling the inspection due to high flows. Tunnel baseflows are monitored weekly, and the team will complete the Mississippi River branch inspection as conditions become safer.

As noted previously, ice columns have formed again from the Battle Creek overflow structures into the tunnel, posing a significant safety risk to workers; the ice restricts safe passage within the pipe and may fall or break loose. Consequently, survey and inspection have been postponed until spring, after snowmelt (around March or April) when conditions are similar to when this inspection was successfully completed five years ago.

Project operations

2019 Tanners Lake alum-facility monitoring (Barr project manager: Meg Rattei; RWMWD project manager: Eric Korte)

The purpose of this project is to complete monitoring and reporting required by the general National Pollutant Discharge Elimination (NPDES)/State Disposal System permit for MS4s.

Barr is currently summarizing and analyzing the 2019 data and preparing the required 2019 MS4 report for the Tanner's alum treatment facility per its permit.

Natural Resources Update – Bill Bartodziej and Simba Blood

Carp Management - Researching the Feasibility of a Low Voltage Electric Barrier at the West Vadnais Outlet

The problems:

1) A 2017 survey by Carp Solutions, Inc. found carp biomass at approximately 220 lbs./acre in West Vadnais. The carp biomass threshold for water quality impacts is 100 lbs./acre. West Vadnais is a shallow lake and it is likely that the high carp density is negatively affecting water quality. This lake is on the state's impaired waters list. It has had consistently high phosphorus levels and severe algal blooms (Figure 1).

2) In 2019, we captured 57 adult carp at a PVC pipe barrier south of the West Vadnais outlet (Figure 2). This is evidence that carp are moving out of this lake and making their way into the Phalen Chain of Lakes system. This barrier was simple and not failsafe, so there is a good chance that some of carp moved around the barrier. These adult carp can get into small ponds, spawn and migrate into the Phalen Chain, via Gervais Creek and Gervais Mill Pond.

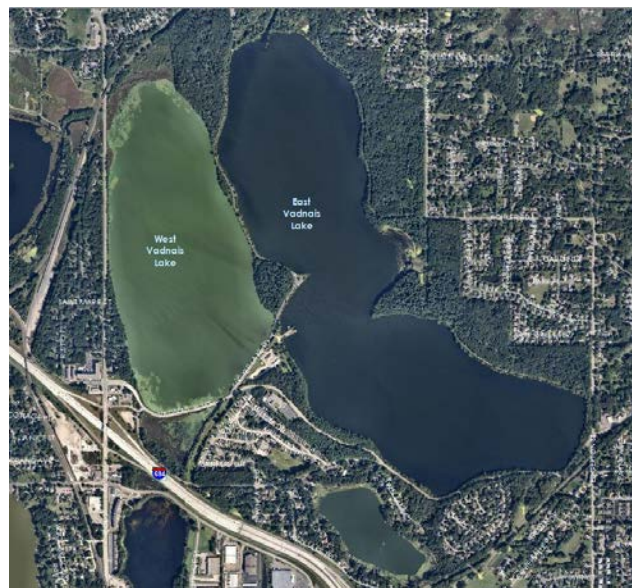


Figure 1: A severe algal bloom was obvious from the air – September 2018.



Figure 2: A simple PVC barrier was used to detect carp migration out of West Vadnais.

Possible solution:

We are researching the possibility of installing a low voltage electric barrier just upstream of the West Vadnais outlet. The barrier unit that we are looking at is being used in Rice Creek by the watershed, and results have been very promising. Carp Solutions would supervise the installation of the unit.

If conditions around the outlet are favorable for the installation (i.e., elevations and access are adequate), we will rent the unit for a year and assess its effectiveness. We will also look at the feasibility of harvesting carp in the outlet channel. If we see a large number of carp aggregate in the outlet channel during the spawning migration, this may be a great location to set up a harvesting station. We could use the barrier setup to direct the carp in a corral and then harvest.

We are partnering with VLAWMO on this project and plan to share the expense. Both organizations will benefit greatly from this carp management effort. We have budgeted for this work already (NR program).



Two strips of low voltage electrodes on the bottom substrate compose the barrier on Rice Creek.



Carp were stacked up on the downstream side of the positive strip of electrodes (red line). The watershed used this opportunity to harvest the carp through a corral type system on the side of the creek. We might be able to do the same at the West Vadnais outlet.

Public Involvement and Education Program – Sage Passi

Bee Here Now: Leaders Surface at Many Levels in Our Watershed Education Program



Kathy Sidles, Bumble Bee Watch monitor and watershed steward from east St. Paul, documents rusty patched bumble bee sightings near the compost site in St. Paul.

This year's educational efforts at outreach and engagement have precipitated some new levels of volunteer leadership capacity. When we merge our efforts with local leaders, the sparks can truly fly. This month, like radiant butterflies emerging from cocoons, citizen leaders have been emerging right and left to take up "starring" roles without having to be sought out. What a joy that is! Citizen interest in habitat improvement has a new level of interest in our watershed with the Lawns to Legume statewide initiative gaining publicity. Engaging residents to make changes in their yards to benefit pollinators can also benefit water quality. The two almost always go hand in hand.

One of these unsung and emerging heroes is Kathy Sidles, a resident on the east side of Lake Phalen. Because of her emails over the past year or two, I knew she was an active proponent for the rusty-patched bumblebee. Kathy was one of our District's first residents in our watershed to go through our Stewardship Grant program. She hosted one of our watershed's first home rain gardens with a trench drain that takes run-off from her driveway and directs it to her rain garden. She packed her rain garden with lots of long-rooted native plants. Then she added even more plant diversity to her back yard.

Kathy likes taking walks from her house down the Bruce Vento Bike Trail that runs north and south across the street from the east shore of Lake Phalen along the railway berm and down into Phalen Village, then over to Ames Lake and then onto the Phalen corridor down to Heritage Park, a route that is being strongly considered for the Rush Line bus route to downtown St. Paul. While picking up trash along this route she discovered the now officially declared endangered rusty patched bumble bee.

Her search for trash along the way led her to make close observations in un-mowed and natural areas on the east side of St. Paul. She has become an avid "Bumble Bee Watch" monitor and intensively

studies how the habitat and the specific plants of both these prairie marshy areas and un-mowed areas attract and help sustain these endangered bumblebees and other species.

This is a link to a video posted on RWMWD's You Tube channel that Kathy shot of the endangered rusty patched bumblebee collecting nectar from Virginia Mountain Mint plants in the Ames Lake wet meadow area. <https://www.youtube.com/watch?v=IY9hhgamBBA&feature=youtu.be>. She has many other videos she has also shot on the east side of St. Paul, by Lake Phalen, other wetlands and in her yard.

When the Lawns to Legumes program emerged this late fall and early winter, RWMWD decided to do community outreach and work with Maplewood Nature Center to apply for a neighborhood demonstration grant. Maplewood was one of the lucky 13 recipients in the state to receive a grant of close to \$40,000 to establish rusty patched bumblebee habitat in residents' yards. So it was high time to reach out to Kathy again. Kathy worked with Carole Gernes, Maplewood Nature Center Naturalist, and me to help plan our first Lawns to Legumes workshop that we held on Thursday, February 20 for east metro residents. We are looking forward to working with residents to develop projects in their neighborhoods to both increase habitat and improve water quality as the year proceeds!

Lawns to Legumes – An East St. Paul Church Rallies for the Cause on February 20



Our Redeemer Lutheran Church was the host site for *Your Yard Can Bee the Change* workshop on February 20 on the east side of St. Paul. Forty-two residents attended the workshop to learn about grant opportunities, sustainable changes to make in their yards using pockets of habitat, pollinator meadows, bee lawns and flowering trees and shrubs and discover the impacts they can make on water quality and the lives of pollinators through these changes.

Ten Master Water Stewards and Master Gardeners were in attendance to begin preparing for future roles they can play in helping advise residents to transform elements of their yards to benefit the rusty-patched bumblebees and other native pollinators and address run-off and water quality issues. Dennis and Joan Paulson who are members of the church are considering their own residence and neighborhood in Maplewood located across from the church as possible locations for Maplewood's demonstration neighborhood projects. Dennis played an instrumental role in helping his church, Our Redeemer Lutheran, install and maintain their LEAP Award-winning rain garden. This church hosted a series of gatherings for community members for several years called Friends of the Phalen Chain of Lakes organized by RWMWD educator and planner Louise Watson that drew together many residents, pastors, teachers, students, city and government representatives and Master Gardeners to explore ways to increase watershed stewardship in the East Metro area.



Classes and Master Gardeners Plants Seeds for Future Watershed Projects and WaterFest



Each year we start a major production in December when classes begin stratifying and scarifying native seeds that have been gathered on our office grounds and our restoration sites to prepare them for germination and growing them indoors into seedlings. In mid-February we began the next phase of the production: mixing soil, planting the seeds and putting them under lights.

Top: Cees Duijndam is a Ramsey County Master Gardener who grew up in the Netherlands. He learned about growing plants from his parents who had huge commercial greenhouses where they raised tomatoes, vegetables and flowers. He has been an invaluable addition to our team in advising us how to streamline our process and the kids love him! Each year we have a fantastic team of Master Gardeners and their interns who volunteer with us. This round in February, twenty-six Master Gardeners, one Master Water Steward and one Master Naturalist helped with the operation with sixteen classes at Weaver Elementary, Farnsworth Aerospace, Mounds Park Academy, St. Peter Catholic School and L'Etoile du Nord.

Lower photo: Sandy Horn, also a Ramsey County Master Gardener and a bee-keeper, presented a slide show at Mounds Park Academy that she created about bees and the Rusty patched bumble bee. Her twins attended MPA and her daughter won our seed art contest two years ago. She learned about the program while volunteering at St. Peter and agreed to do the slide show the next day Mounds Park Academy. That was synergy!

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Informational Items

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BOARD OF COMMISSIONERS

RESOLUTION

Presented by: Commissioner Frethem Date: February 18, 2020 No. B2020-046
Attention: Board of Commissioners

WHEREAS, The Ramsey-Washington Metro Watershed District is responsible for preserving and improving water resources and related ecosystems in eastern Ramsey County and western Washington County; and

WHEREAS, The Ramsey-Washington Metro Watershed District is managed by a board of managers, which consists of four Ramsey County-appointed managers and one Washington County-appointed manager; and

WHEREAS, There are currently two vacancies on the Board of Managers due to term expirations; recruitment through the County's Open Appointment Process resulted in two applications from the incumbents; and

WHEREAS, On January 30, 2020, the Chief Clerk's Office forwarded the applications to the commissioners for review and recommendation; Now, Therefore, Be It

RESOLVED, The Ramsey County Board of Commissioners appoints Lawrence Swope (incumbent) and Dianne Ward (incumbent) to the Ramsey-Washington Metro Watershed District Board of Managers for a term beginning February 24, 2020 and ending February 23, 2023.

Ramsey County Board of Commissioners

Table with 3 columns: YEA, NAY, OTHER. Rows for Nicole Frethem, Trista MatasCastillo, Jim McDonough, Mary Jo McGuire, Rafael Ortega, Victoria Reinhardt, Toni Carter.

Toni Carter, Chair

By: [Signature] Janet M. Guthrie Chief Clerk - County Board