

# October 2019 Board Packet

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# Agenda

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### **Regular Board Meeting Agenda**

Wednesday, October 2, 2019 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 Minutes September 12, 2019
  - B. Approval of Special Meeting Minutes September 16, 2019

### 4. Treasurer's Report and Bill List

- 5. Visitor Comments (limited to 4 minutes each)
- 6. Permit Program
  - A. Applications
    - i. 19-42 American Indian Magnet School Addition, St. Paul
    - ii. 19-43 CDI Medical Office, Maplewood
    - iii. 19-44 5 Star Mobile Estates Soil Correction, Vadnais Heights
    - iv. 19-45 Villages on McKnight Clubhouse, St. Paul
  - B. Metro Transit Gold Line Presentation
  - C. Woodbury Suite Living Wetland Discussion
  - D. Enforcement Action Report
- 7. Stewardship Grant Program
  - A. Applications
    - i. 19-25 CS Cedar Lakeside Apartments, shoreline restoration
    - ii. 19-26 CS Harding Arena, habitat restoration
  - B. Budget Status Update
- 8. Minnesota Research Council Presentation John Bilotta, U of M Water Resources Center
- 9. Action Items

### A. Watershed Excellence Awards Approval

- 10. Administrator's Report
  - A. Meetings Attended

Quality Water for Quality Life.

- B. Upcoming Meetings and Dates
- C. MAWD Annual Meeting and Resolution Process
- D. Special Work Session Meeting regarding Beltline Resiliency Study
- E. CAC Meeting Update
- 11. Project and Program Status Reports
  - A. New Project Scope: Hillcrest Golf Course Study of Existing Conditions
  - B. Ongoing Project and Program Updates
    - i. Twin Lake Emergency Response Management 2019
    - ii. Beltline Resiliency Study
    - iii. FEMA Flood Mapping
    - iv. Snail, Grass and West Vadnais Lakes Outlet Permitting
    - v. 500-Year Atlas 14 Modeling
    - vi. Wetland Restoration
    - vii. Auto Lake Monitoring Systems
    - viii. Maplewood Mall Monitoring
    - ix. Spent-Lime Pond Research Project
    - x. Wakefield Park/Frost Avenue Project
    - xi. Targeted Retrofit Projects
    - xii. Target and Motel 6 Stormwater Retrofit projects
    - xiii. Willow Pond CMAC
    - xiv. Cottage Place Wetland Restoration
    - xv. Aldrich Arena Site Design
    - xvi. CIP Maintenance and Repair 2019 Project
    - xvii. Natural Resources Program
  - xviii. Education Program
- 12. Informational Items
- 13. Report of Managers
- 14. Adjourn

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# Consent Agenda

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### Ramsey-Washington Metro Watershed District Minutes of Regular Board Meeting September 12, 2019

The Regular Meeting of September 12, 2019, was held at the District Office Board Room, 2665 Noel Drive, Little Canada, Minnesota, at 6:30 p.m.

### PRESENT:

ABSENT:

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

### ALSO PRESENT:

Tina Carstens, District Administrator Laurann Kirschner, Attorney for District Erin Anderson Wenz, Barr Engineering Paige Ahlborg, Project Manager Bill Bartodziej, Natural Resource Specialist Nicole Soderholm, Permit Inspector Steve LaBerge, Dudley Ave., Shoreview Terry Telega, Twin Lake Trail, Little Canada Sean Murphy, Luther Subaru Clark Wicklund, Alliant Engineering Shari Ahrens, Westwood P.S.

### 1. CALL TO ORDER

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

### 2. APPROVAL OF AGENDA

<u>Motion</u>: Lawrence Swope moved, Dianne Ward seconded, to approve the agenda as presented. Motion carried unanimously.

### 3. CONSENT AGENDA

A. <u>Approval of Minutes from August 7, 2019</u>

Manager Swope noted on page five, the third paragraph, it should state, "...flood control projects have been completed to protect <u>only low-lying</u> homes."

<u>Motion</u>: Lawrence Swope moved, Dianne Ward seconded, to approve the consent agenda as amended. Motion carried unanimously.

### 4. TREASURER'S REPORT AND BILL LIST

Manager Swope noted that the budget for insurance has been used and asked if the costs were higher than anticipated. Tina Carstens explained that the District simply paid the annual cost for property insurance.

<u>Motion</u>: Lawrence Swope moved, Dr. Pam Skinner seconded, to approve the September 12, 2019, bill list as submitted. Motion carried unanimously.

### 5. VISITOR PRESENTATIONS

Steve LeBerge stated that in response to the discussion last month regarding Grass Lake, the long-held assumption that groundwater seepage and evaporation from Grass Lake were adequate to meet demands were wrong. He stated that with the recent issues with flooding in the watershed district and the elevated water levels, it would seem irresponsible to increase the flow of water from Owasso and Wabasso into Grass Lake without increasing downstream flows and significantly lowering Grass Lake and West Vadnais Lake levels.

### 6. PERMIT PROGRAM

### A. Applications

### Permit #19-37: Contanda Terminal Berm Replacement – St. Paul

Nicole Soderholm noted that this is a retroactive approval as the work was already completed due to the emergency status due to flooding.

Motion: Dr. Pam Skinner moved, Cliff Aichinger seconded, to approve Permit #19-37. Motion carried unanimously.

<u>Permit #19-38: McKnight Road – Anchor Block Commons, North St. Paul</u> <u>Motion</u>: Dr. Pam Skinner moved, Lawrence Swope seconded, to approve Permit #19-38.

Further discussion: Manager Swope noted that this is located adjacent to another development and asked if the water plans interact with each other. Nicole replied that each development provides its own treatment, owning and maintaining its own infrastructure. She explained that this approval would cover grading, roads and infrastructure with each project that comes forward applying for its own permit.

Motion carried unanimously.

<u>Permit #19-39: Wooddale Flex Building – Woodbury</u> <u>Motion</u>: Dr. Pam Skinner moved, Dianne Ward seconded, to approve Permit #19-39. Motion carried unanimously.

### Permit #19-40: Luther White Bear Lake Subaru Parking – Vadnais Heights

Manager Swope asked what is currently in this area that would be replaced with paving. It was confirmed that the area is currently vacant and composed of trees and grass.

Motion: Dr. Pam Skinner moved, Cliff Aichinger seconded, to approve Permit #19-40.

Further discussion: Manager Swope asked if the paved area would still capture and treat rain in the same manner as the grass. Nicole confirmed that the District rules would still need to be met, treating and capturing the same amount of runoff that is currently provided by the grass.

Motion carried unanimously.

<u>Permit #19-41: Margaret Street Apartments – North St. Paul</u> <u>Motion</u>: Dr. Pam Skinner moved, Cliff Aichinger seconded, to approve Permit #19-41.

Further discussion: Manager Skinner referenced the underground parking and wanted to ensure that the District is not allowing projects to be built that will be continually flooded. She noted that this area has high groundwater levels and asked if that would cause flooding of the underground structure when it rains. Nicole replied that the District rules deal with surface floodplain. She noted that there are freeboard requirements and advised that there is an impermeable liner proposed for this project. Manager Skinner stated that it would seem that the property owner would be responsible if the underground garage floods. Nicole stated that stormwater is regulated by the District while groundwater is not. Manager Aichinger noted that there will be a sump system installed with the project which would then respond to groundwater seepage. He asked if there is a plan on when construction would begin. Shari Ahrens, representing the applicant, replied that they are working with the city and would like to start building this fall.

Motion carried unanimously.

### B. Monthly Enforcement Report

During August, 15 notices were sent to address: install/maintain inlet protection (2), install/maintain perimeter control (5), install/maintain construction entrance (1), stabilize exposed soils (1), contain/dispose of liquid and solid waste (1), remove discharged sediment (2), implement proper dewatering (2), and protect/maintain permanent BMPs (1).

### 7. STEWARDSHIP GRANT PROGRAM

### A. Applications

Permit #19-23 CS: Hoffman – Rain Gardens and Native Habitat Planting Motion: Cliff Aichinger moved, Dianne Ward seconded, to approve Permit #19-23 CS. Motion carried unanimously.

### B. Discussion Item: Additional Fund Approval Memo

Tina Carstens stated that after the last discussion Paige Ahlborg created this draft.

Manager Ward stated that she appreciates the information and found it helpful. She stated that when an exception is recommended, she would appreciate the link to the applicable justification. Manager Swope agreed that this is exactly what he was looking for as well. He noted that he found it interesting that after the Board increased the allowed amount, there were additional exceptions that came forward. President Ebensteiner noted that once that limit was increased, the opportunity for larger projects came forward. Paige stated that in the past, with the lower limit, people were not as apt to apply because of the low amount allowed and therefore when that limit was increased, it also increased the opportunity for residents to bring forward more projects.

### C. <u>Budget Status Update</u> No comments.

### 8. 2020 PRELIMINARY BUDGET AND LEVY PUBLIC HEARING

President Ebensteiner opened the public hearing at 6:53 p.m.

No comments made.

Motion: Cliff Aichinger moved, Lawrence Swope seconded, to close the public hearing at 6:53 p.m. Motion carried unanimously.

### 9. ACTION ITEMS

### A. <u>Approval of the 2020 Preliminary Budget and Levy Certification to Ramsey and Washington Counties –</u> <u>Resolution 19-02.</u>

Tina Carstens reviewed the proposed budget and levy for 2020, along with comparison information from the approved 2019 budget and levy. She highlighted the budget percentage by program area.

<u>Motion</u>: Lawrence Swope moved, Cliff Aichinger seconded, to approve the draft budget for purposes of the preliminary levy and adopt Resolution #19-02. Motion carried unanimously.

### B. <u>Change Order No. 2 – CIP Maintenance and Repair 2019</u>

Tina handed out a revised change order sheet at the board meeting. \$79,708 is the correct total.

<u>Motion</u>: Lawrence Swope moved, Cliff Aichinger seconded, to approve Change Order No. 2. Motion carried unanimously.

### **10.** ADMINISTRATOR'S REPORT

### A. Meetings Attended

Tina explained what role we will play in the Hillcrest planning process and how this will play a role in their public planning process. Staff are reviewing Barr's scope and Board will see that in October.

B. <u>Upcoming Meetings and Dates</u> No comment.

### C. Board Brainstorming Meeting – Monday, September 16<sup>th</sup>

Discussion was had on the upcoming meeting and the topic of discussion.

### D. Manager per Diems

Motion: Manager Aichinger moved, Lawrence Swope seconded, to approve raising the regular and special board meeting per Diems to \$125 and \$75 for other meetings.

### 11. PROJECT AND PROGRAM STATUS REPORTS

### A. <u>New Project Scope: Twin Lake Outlet Feasibility Study</u>

Discussion was had on the goals of the project as well as the deliverables and time schedule. The board requested that this study also look at the possible multiple benefits along with the pros and cons of those options.

- B. Ongoing Project and Program Updates
  - i. <u>Twin Lake Emergency Response</u> Management 2019
  - ii. Owasso County Park
  - iii. <u>Beltline Resiliency Study</u>
  - iv. FEMA Flood Mapping
  - v. <u>Snail, Grass and West Vadnais Lakes</u> Outlet Permitting
  - vi. 500 Year Atlas 14 Modeling
  - vii. Wetland Restoration
  - viii. Auto Lake Monitoring Systems
  - ix. Maplewood Mall Monitoring
  - x. Spent Lime Pond Research Project

- xi. <u>Iron Aggregate Pond Application</u> Research
- xii. Wakefield Park/Frost Avenue Project
- xiii. <u>Targeted Retrofit Projects</u>
- xiv. <u>Targets and Motel 6 Targeted</u> <u>Retrofit Projects</u>
- xv. <u>Willow Pond CMAC</u>
- xvi. <u>Cottage Place Wetland Restoration</u>
- xvii. Aldrich Arena Site Design
- xviii. <u>CIP Maintenance and Repair 2019</u> <u>Project</u>
- xix. <u>Natural Resources Program</u>
- xx. Education Program

### 12. INFORMATIONAL ITEMS

### 13. REPORTS OF MANAGERS

### 14. ADJOURN

Motion: Manager Skinner moved, Manager Swope seconded, to adjourn the meeting at 8:29 p.m. Motion carried unanimously.

Respectfully submitted,

Dr. Pam Skinner, Secretary



### Ramsey-Washington Metro Watershed District Minutes of Special Board Meeting September 16, 2019

The Special Meeting of September 16, 2019, was held at the District Office Board Room, 2665 Noel Drive, Little Canada, Minnesota, at 6:00 p.m.

### **PRESENT:**

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

### ALSO PRESENT:

Tina Carstens, District Administrator Brad Lindaman, Barr Engineering

The Board of Managers met to brainstorm on project and program priorities as it relates to the current watershed management plan. Discussion was also had on potential updates and/or changes needed to the watershed management plan in a future amendment.

The following are the outcomes of the meeting:

- Staff will review the watershed management plan and suggest areas that need updating.
- Staff will give the Board information on the impact of flooding on wetlands.
- Staff will consider scheduling additional special meetings when detailed project or program discussions are desired. For instance, in the next two months, the Board would like to discuss the Beltline Resiliency Study at a special work session meeting.

The meeting concluded at 8:00 pm.

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# Bill List

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# RWMWD BUDGET STATUS REPORT Administrative & Program Budget Fiscal Year 2019

### 9/30/2019

					Current		Current	
		Account	Original	Budget	Month	Year-to-Date	Budget	Percent
Budget Category	Budget Item	Number	Budget	Transfers	Expenses	Expenses	Balance	of Budget
Manager	Per diems	4355	\$6,500.00	-	-	4,150.00	\$2,350.00	63.85%
	Manager expenses	4360	3,500.00	-	-	871.40	2,628.60	24.90%
Committees	Committee/Bd Mtg. Exp.	4365	3,500.00	-	-	2,556.11	943.89	73.03%
Employees	Staff salary/taxes/benefits	4010	1,385,000.00	-	111,505.13	985,340.40	399,659.60	71.14%
	Employee expenses	4020	10,000.00	-	612.37	5,978.86	4,021.14	59.79%
	District training & education	4350	25,000.00	-	2,669.04	16,906.57	8,093.43	67.63%
Administration/	GIS system maint. & equip.	4170	15,000.00	-	-	2,028.52	12,971.48	13.52%
Office	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	-	361.48	5,357.58	2,642.42	66.97%
	Office supplies	4320	5,000.00	-	378.07	3,707.61	1,292.39	74.15%
	IT/Internet/Web Site/Software Lic.	4325	45,000.00	-	2,519.69	31,310.25	13,689.75	69.58%
	Postage	4330	10,000.00	-	-	597.39	9,402.61	5.97%
	Printing/copying	4335	8,000.00	-	612.97	4,449.89	3,550.11	55.62%
	Dues & publications	4338	11,000.00	-	-	9,902.00	1,098.00	90.02%
	Janitorial/Trash Service	4341	17,000.00	-	-	5,652.18	11,347.82	33.25%
	Utilities/Bldg.Contracts	4342	20,000.00	-	1,588.99	14,846.98	5,153.02	74.23%
	Bldg/Site Maintenance	4343	300,000.00	-	571.85	71,933.40	228,066.60	23.98%
	Miscellaneous	4390	5,000.00	-	-	500.00	4,500.00	10.00%
	Insurance	4480	35,000.00	-	667.00	36,479.00	(1,479.00)	104.23%
	Office equipment	4703	40,000.00	-	-	29,222.15	10,777.85	73.06%
	Vehicle lease, maintenance	4810-40	43,000.00	-	1,597.97	5,799.08	37,200.92	13.49%
Consultants/	Auditor/Accounting	4110	55,000.00	-	-	41,158.96	13,841.04	74.83%
Outside Services	Engineering-administration	4121	93,000.00	-	2,463.00	50,900.64	42,099.36	54.73%
	Engineering-permit I&E	4122	10,000.00	-	-	3,024.44	6,975.56	30.24%
	Engineering-eng. review	4123	55,000.00	-	1,180.00	35,802.16	19,197.84	65.09%
	Engineering-permit review	4124	55,000.00		410.00	26,632.50	28,367.50	48.42%
	Project Feasibility Studies	4129	790,000.00		21,485.00	266,442.80	523,557.20	33.73%
	Attorney-permits	4130	10,000.00		21,405.00	200,442.00	10,000.00	0.00%
	Attorney-general	4130	40,000.00			21,409.50	18,590.50	53.52%
	Outside Consulting Services	4151	40,000.00			21,405.50	40,000.00	0.00%
Programs	Educational programming	4370	60,000.00	-	339.15000	14,633.36	45,366.64	24.39%
riograms	Communications & Marketing	4370	25,000.00	-	555.15000	5,937.78	19,062.22	23.75%
	Events	4371	50,000.00		220.11	34,854.15	15,145.85	69.71%
	Water QM-Engineering	4520-30	300,000.00	-	14,500.14	138,123.53	161,876.47	46.04%
		4320-30	160,000.00	-	1,997.32	26,178.25	133,821.75	
	Project operations SLMP/TMDL Studies	4650	68,000.00	-	1,997.32		64,256.00	16.36%
				-		3,744.00		5.51%
	Natural Resources/Keller Creek	4670-72	115,000.00 67,000.00	-	13,479.40 1,405.87	105,608.45 40,416.16	9,391.55	91.83%
	Outside Prog.Support/Weed Mgmt.	4683-84		-			26,583.84	60.32%
	Research Projects	4695	115,000.00	-	1,347.00	44,294.09	70,705.91	38.52%
	Health and Safety Program	4697	3,000.00	-	63.61	1,043.48	1,956.52	34.78%
	NPDES Phase II	4698	10,000.00	-	-	-	10,000.00	0.00%
GENERAL FUND TOTA			\$4,124,500.00	\$0.00	\$182,085.16	\$2,100,003.62	\$2,024,496.38	50.92%
CIP's	CIP Project Repair & Maintenance	516	1,120,000.00	-	83,134.69	764,296.94	355,703.06	68.24%
	Targeted Retrofit Projects	518	978,760.00	-	5,203.00	215,962.15	762,797.85	22.06%
	District Office Building Solar Energy Retrofit	519	-	-	-	-	-	
	Flood Damage Reduction Fund	520	2,500,000.00	-	3,389.09	240,698.96	2,259,301.04	9.63%
	Debt Services-96-97 Beltline/MM/Battle Creek	526	399,113.00	-	-	396,907.30	2,205.70	99.45%
	Stewardship Grant Program Fund	528-529	1,250,000.00	-	95,195.12	434,317.87	815,682.13	34.75%
	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	-	750.00	5,842.48	59,157.52	8.99%
	Wakefield Park Project	553	1,100,000.00	-	2,790.50	58,126.70	1,041,873.30	5.28%
	Willow Pond CMAC	554	300,000.00		747.00	11,839.16	288,160.84	3.95%
	District Office Bond Payment	585	194,885.00	-	-	193,453.76	1,431.24	99.27%
CIP BUDGET TOTAL			\$9,407,758.00	-	\$191,209.40	\$2,321,445.32	\$7,086,312.68	24.68%
TOTAL BUDGET			\$13,532,258.00	\$0.00	\$373,294.56	\$4,421,448.94	\$9,110,809.06	32.67%

Current Fund Balances:						
Fund:	Beginning Fund Balance @ 12/31/18	Fund Transfers	Year to date Revenue	Current Month Expenses	Year to Date Expense	Fund Balance @ 09/30/19
101 - General Fund	\$4,464,553.28	-	1,834,659.16	182,085.16	2,100,003.62	4,199,208.82
516 - CIP Project Repair & Maintenance	951,963.00	-	589,276.30	83,134.69	764,296.94	776,942.36
518 - Targeted Retrofit Projects	994,725.00	-	105,227.91	5,203.00	215,962.15	883,990.76
519 - District Office Building Solar Energy Retrofit	32,805.00	-	-	-	-	32,805.00
520 - Flood Damage Reduction Fund	1,823,918.00	-	483,117.41	3,389.09	240,698.96	2,066,336.45
526 - Debt Services-96-97 Beltline/MM/Beltline-Battle Creek Tunnel Repair	381,949.00	-	311,016.62	-	396,907.30	296,058.32
528/529 - Stewardship Grant Program Fund	389,152.00	-	657,674.45	95,195.12	434,317.87	612,508.58
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
550 - Frost/Kennard Enhanced WQ BMP	70,017.00	-	-	-	-	70,017.00
551 - Markham Pond Dredging & Aeration	110,379.00	-	-	750.00	5,842.48	104,536.52
553 - Wakefield Park Project	1,049,286.00	-	-	2,790.50	58,126.70	991,159.30
554 - Willow Pond CMAC	(44,588.00)	-	-	747.00	11,839.16	(56,427.16)
580 - Contingency Fund	598,985.00	-	-	-	-	598,985.00
585 - Certificates of Participation	131,513.00	-	102,536.71	-	193,453.76	40,595.95
Total District Fund Balance	\$13,302,546.28	-	\$ 4,083,508.56	\$ 373,294.56	\$4,421,448.94	\$12,964,605.90

### Ramsey Washington Metro Watershed Dist. Check Register For the Period From Sep 1, 2019 to Sep 30, 2019

Check #	Date	Payee ID	Invoice #	Payee	Description	Amount
EFT	08/02/19	del002	Aug 2019	Deluxe for Business	Accounts Payable Checks	\$541.76
EFT	09/01/19	met008	Sep 2019	MetLife	Employee Benefits	1,615.20
EFT	09/11/19	hea002	Oct 2019	HealthPartners	Employee Benefits	10,825.13
EFT	09/13/19	nsp001	Sep 2019	Xcel Energy	Project Operations/Utilities	640.58
71023	09/25/19	ada002	2826188	Adam's Pest Control. Inc.	Utilities/Building Contracts	79.0
71023	09/25/19	att002	X09252019	AT & T Mobility - ROC	Water QM Staff-General	80.4
71024	09/25/19	aws001	S1335957-090119	AWS Service Center	Utilities/Building Contracts	206.2
71025	09/25/19	bar001	8/24-9/6/19	Barr Engineering	8/24-9/6/19 Engineering Expense	59,752.8
71020	09/25/19	bar001	Sep 2019	Deborah Barnes	Employee Reimbursement	70.0
71027	09/25/19	bar004 bar009	09/20/19	Seth Bartodziej	Employee Reimbursement	44.0
71028	09/25/19	bli003	19-05 CS	YMCA Maplewood	Stewardship Grant Fund	77,700.5
71029	09/25/19	bre003	Oct 2019	Bremer Bank	Employee Benefits	7,000.0
71030	09/25/19	bro001	13525764-00	Brock White Company LLC	Natural Resources Project	280.5
71031	09/25/19	cad001	Sep 2019	Allstream	Water QM Staff-General	65.4
71032	09/25/19	car007	Sep 2019	Carp Solutions, LLC	Natural Resources Project	10,184.8
71033	09/25/19	cit011	226613	City of Roseville	Telephone/IT/Website/Software	2,728.0
71034	09/25/19	com004	09/16/19	Comcast	Utilities/Building Contracts	2,728.0
71035	09/25/19	don001	Sep 2019	Matthew Doneux	Employee Reimbursement	108.6
71037	09/25/19	fit002	Sep 2019	Mary Fitzgerald Flint Hills Resources	Employee Reimbursement Dev.Escrow-General	55.6
71038	09/25/19	fli001	19-13			88.0
71039	09/25/19	fre001	836	Freshwater Society	Outside Program Support	500.0
71040	09/25/19	gil001	184316 1	Gilbert Mechanical Contractors, Inc.	Bldg./Site Maintenance	237.0 200.0
71041	09/25/19	han007	4578233/4580821	Ben Hanson Hawkins, Inc.	Natural Resources Project	
71042	09/25/19	haw001			Water QM Staff-General	8,946.2
71043 '1044V	09/25/19	hej001	313418	Hejny Rental VOID	Natural Resources Project VOID	22.8
		 hb.002		Michael Huber		102.5
71045	09/25/19	hub002	100		Natural Resources Project	192.5
71046 71047	09/25/19 09/25/19	inn002 int001	SO-2698378	Innovative Office Solutions LLC	Office Supplies	317.3 57.4
			W19080505	Office of MN, IT Services	Telephone Expense Water QM Staff-General	
71048	09/25/19	isc001	P020067467	Teledyne Instruments, Inc.		321.0
71049	09/25/19	kub001	Sep 2019	Kyle W. Kubitza	Employee Reimbursement	17.4
71050	09/25/19	lar002	09/01/19	Andrew S. Larson	Employee Reimbursement	33.0
71051	09/25/19	lea001	09/18/19-WC	League of MN Cities Ins. Trust WC	Insurance Expense	667.0
71052	09/25/19	mel001	Sep 2019	Michelle L. Melser	Employee Reimbursement	281.2
71053	09/25/19	met004	INV1429243	Metro Sales, Inc.	Printing Expense	318.9
71054	09/25/19	mid001	6592805	Quicksilver Express Courier	Employee Benefits	26.6
71055	09/25/19	mid003	Toolbox	Roseville Midway Ford	Vehicle Expense	1,080.0
71056	09/25/19	min008	21563	Minnesota Native Landscapes, Inc.	Stewardship Grant Fund	5,130.0
71057	09/25/19	nar001	IN0118824	Nardini Fire Equipment	Utilities/Building Contracts	327.0
71058	09/25/19	ncp001	10/2019	NCPERS Group Life Ins.	Employee Benefits	16.0
71059	09/25/19	nsp001	Sep 2019	Xcel Energy	Project Operations/Utilities	770.7
71060	09/25/19	out001		Outdoor Lab Landscape Design, Inc.	Stewardship/ConstrMaint. & Rep.	34,381.2
71061	09/25/19	pac001	1912010614-11085	Pace Analytical Services, Inc.	Water QM Staff-General	1,044.0
71062	09/25/19	pas002	Aug-Sep 2019	Sage Passi	Employee Reimbursement	149.9
71063	09/25/19	pro003	Sep 2019	Lyndsey R. Provos	Employee Reimbursement	419.2
71064	09/25/19	qwe001	09/10/19	CenturyLink	Water QM Staff-General	230.6
71065	09/25/19	red003	20190910043028	Red Wing Business Advantage Account	Employee Benefits	322.9
71066	09/25/19	san003	09/03/19	Sandstrom Land Management	Stewardship Grant Fund	715.0
71067	09/25/19	sco003	19-22 CS	Barbara Scott	Stewardship Grant Fund	1,559.5
71068	09/25/19	sod001	Sep 2019	Nicole Soderholm	Employee Reimbursement	54.5
71069	09/25/19	stp005	5584	St. Paul Public Schools	Educational Program	276.6
71070	09/25/19	tro002	19-06	Cathy Troendle	Educational Program	62.5
71071	09/25/19	usb002	Sep 2019	U.S. Bank	August/September Credit Card	4,668.2
71072	09/25/19	usb005	393847371	US Bank Equipment Finance	Printing Expense	294.0
71073	09/25/19	vla001	09/17/19	Dave Vlasin	Employee Reimbursement	388.3
71074	09/25/19	voy001	Sep 2019	US Bank Voyager Fleet Sys.	Vehicle Fuel	517.9
71075	09/25/19	wil007	Sep 2019	Patrick Williamson	Employee Reimbursement	37.1
71076	09/25/19	bro001	Sep 2019	Brock White Company LLC	Natural Resources Project	1,775.4
71077	09/25/19	hof001	8055	Hoffman & McNamara Nursery & Landscape	Construction ImpMaint. & Repair	44,038.3

Total

Accounts Payable

\$282,527.00

### Ramsey Washington Metro Watershed Dist. Check Register For the Period From Sep 1, 2019 to Sep 30, 2019

Check #	Date	Payee ID	Invoice #	Payee	Description	Amount
EFT	08/09/19	myp001	08/09/19	August 9th Payroll Fees	4110-101-000	71.80
EFT	08/23/19	myp001	08/23/19	August 23rd Payroll Fees	4110-101-000	75.50
Dir.Dep.	09/06/19		Payroll Expense-Net	September 6th Payroll	4010-101-000	27,586.52
EFT	09/06/19	int002	Internal Rev.Serv.	September 6th Federal Withholding	2001-101-000	9,373.80
EFT	09/06/19	mnd001	MN Revenue	September 6th State Withholding	2003-101-000	1,814.75
EFT	09/06/19	per001	PERA	September 6th PERA	2011-101-000	4,854.59
EFT	09/06/19	emp002	Empower Retirement	Employee Def.Comp. Contributions	2016-101-000	2,425.00
EFT	09/06/19	emp002	Empower Retirement	Employee IRA Contributions	2018-101-000	375.00
Dir.Dep.	09/20/19		Payroll Expense-Net	September 20th Payroll	4010-101-000	25,341.66
EFT	09/20/19	int002	Internal Rev.Serv.	September 20th Federal Withholding	2001-101-000	8,651.23
EFT	09/20/19	mnd001	MN Revenue	September 20th State Withholding	2003-101-000	1,672.24
EFT	09/20/19	per001	PERA	September 20th PERA	2011-101-000	4,793.46
EFT	09/20/19	emp002	Empower Retirement	Employee Def.Comp. Contributions	2016-101-000	2,425.00
EFT	09/20/19	emp002	Empower Retirement	Employee IRA Contributions	2018-101-000	375.00
					Pavroll/Benefits	\$89,835.55

Total

Accounts Payable/Payroll/Benefits: \$372,362.55

Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Detail
08/02/19	EFT	de1002	Deluxe for Business	4320-101-000	Office Supplies-General	\$541.76	
09/01/19	EFT	met003	MetLife-Group Benefits			1,615.20	
					Employee Benefits-General		1,398.12
				2015-101-000	Employee Health-General		217.08
09/11/19	EFT	hea002	HealthPartners			10,825.13	
					Employee Benefits-General		9,186.12
				2015-101-000	Employee Health-General		1,639.01
09/13/19	EFT	nsp001	Xcel Energy			640.58	
				4650-101-000	Project Operations-General		374.82
				4342-101-000	Utilities/Bldg. Contracts		265.76
09/25/19	71023	ada002	Adam's Pest Control	4342-101-000	Utilities/Bldg. Contracts	79.00	
09/25/19	71024	att002	AT & T Mobility - ROC	4530-101-000	Water QM Staff-General	80.45	
09/25/19	71025	aws001	AWS Service Center	4342-101-000	Utilities/Bldg. Contracts	206.28	
09/25/19	71026	bar001	Barr Engineering			59,752.84	
				4121-101-000	Engineering Admin-General Fund		2,463.00
					Engineering-Review-General		1,180.00
				4129-101-000	Project Feasability-General		219.50
				4129-101-000	Project Feasability-General		9,153.00
				4129-101-000	Project Feasability-General		1,161.00
				4129-101-000	Project Feasability-General		2,235.50
				4129-101-000	Project Feasability-General		6,174.00
					Project Feasability-General		532.50
				4129-101-000	Project Feasability-General		1,978.00
				4520-101-000	Water QM-Engineering		119.18
				4520-101-000	Water QM-Engineering		625.00
				4520-101-000	Water QM-Engineering		64.50
				4520-101-000	Water QM-Engineering		982.00
				4520-101-000	Water QM-Engineering		1,883.00
				4122-101-000	Engineering Permit Review-Geneal Fund		31.50
				4124-101-000	Engineering-Flood Damage		410.00
				4661-101-000	SLMP/TMDL Studies		110.00
				4128-520-000	Engineering-Flood Damage		3,389.09
					Research Projects-General		50.00
					Research Projects-General		17.00
					Project Operations-General		1,500.75
					Engineering-Wakefield		2,790.50
					Engineering-School/Commer Retrofit		3,120.50
					Stewardship Grant Fund		1,112.50
					Engineering-School/Commer Retrofit		2,082.50

Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Detail
				4128-551-000	Engineering-Markham		750.00
					Stewardship Grant Fund		3,644.56
					Engineering-Willow Pond		747.00
					Engineering-Research Projects		1,280.00
					Engineering-Maint. & Repair		7,904.26
					Engineering-Maint. & Repair		2,042.50
09/25/19	71027	bar004	Deborah Barnes		Employee Benefits-General	70.00	,
09/25/19	71028	bar009	Seth Bartodziej		Employee Expenses-General	44.08	
09/25/19	71029	bli003	YMCA Maplewood	4682-529-000	Stewardship Grant Fund	77,700.50	
09/25/19	71030	bre003	Bremer Bank	4040-101-000	Employee Benefits-General	7,000.00	
09/25/19	71031	bro001	Brock White Company, LLC	4670-101-000	Natural Resources Project-General	280.52	
09/25/19	71032	cad001	Allstream	4530-101-000	Water QM Staff-General	65.49	
09/25/19	71033	car007	Carp Solutions, LLC	4670-101-000	Natural Resources Project-General	10,184.80	
09/25/19	71034	cit011	City of Roseville		-	2,728.00	
				4310-101-000	Telephone-General		304.00
				4325-101-000	IT/Website/Software		2,424.00
09/25/19	71035	com004	Comcast	4342-101-000	Utilities/Bldg. Contracts	61.93	
09/25/19	71036	don001	Matthew Doneux			108.68	
				4040-101-000	Employee Benefits-General		40.00
				4020-101-000	Employee Expenses-General		12.76
				4670-101-000	Natural Resources Project-General		55.92
09/25/19	71037	fit002	Mary Fitzgerald		Employee Expenses-General	55.68	
09/25/19	71038	fli001	Flint Hills Resources	2024-101-000	Dev Escrow-General Fund	88.00	
09/25/19	71039	fre001	Freshwater Society	4683-101-000	Outside Program Support	500.00	
09/25/19	71040	gil001	Gilbert Mechanical Contractors, Inc.		Bldg./Site Maintenance	237.00	
09/25/19	71041	han007	Ben Hanson	4670-101-000	Natural Resources Project-General	200.00	
09/25/19	71042	haw001	Hawkin's, Inc.	4530-101-000	Water QM Staff-General	8,946.20	
09/25/19	71043	hej001	Hejny Rental	4670-101-000	Natural Resources Project-General	22.89	
09/25/19	71044V		VOID		VOID	-	
09/25/19	71045	hub002	Michael Huber		Natural Resources Project-General	192.50	
09/25/19	71046	inn002	Innovative Office Solutions, LLC		Office Supplies-General	317.33	
09/25/19	71047	int001	Office of MN, IT Services		Telephone-General	57.48	
09/25/19	71048	isc001	Teledyne Instruments, Inc.		Water QM Staff-General	321.00	
09/25/19	71049	kib001	Kyle W. Kubitza		Employee Expenses-General	17.40	
09/25/19	71050	1ar002	Andrew S. Larson		Employee Expenses-General	33.06	
09/25/19	71051	lea001	League of MN Cities Trust WC	4480-101-000	Insurance-General	667.00	
09/25/19	71052	mel001	Michelle L. Melser			281.22	
					Employee Expenses-General		71.22
					Employee Benefits-General		210.00
09/25/19	71053	met004	Metro Sales, Inc.	4335-101-000	Printing-General	318.97	

Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Detail
09/25/19	71054	mid001	Quicksilver Express Courier		Employee Benefits-General	26.62	
09/25/19	71055	mid003	Roseville Midway Ford		Vehicle MiscGeneral	1,080.00	
09/25/19	71056	min008	Minnesota Native Landscapes, Inc.		Stewardship Grant Fund	5,130.00	
09/25/19	71057	nar001	Nardini Fire Equipment		Utilities/Bldg. Contracts	327.00	
09/25/19	71058	ncp001	NCPERS Group Life Insurance	2015-101-000	Employee Health-General	16.00	
09/25/19	71059	nsp001	Xcel Energy			770.77	
					Project Operations-General		121.75
				4342-101-000	Utilities/Bldg. Contracts		649.02
09/25/19	71060	out001	Outdoor Lab Landscape Design, Inc.			34,381.22	
					Stewardship Grant Fund		5,333.00
					Construction ImpMaint. & Repair		3,285.72
					Construction ImpMaint. & Repair		25,762.50
09/25/19	71061	pac001	Pace Analytical Services, Inc.	4530-101-000	Water QM Staff-General	1,044.00	
09/25/19	71062	pas002	Sage Passi			149.98	
					Employee Benefits-General		99.50
				4020-101-000	Employee Expenses-General		50.48
09/25/19	71063	pro003	Lyndsey R. Provos			419.23	
					Employee Expenses-General		168.19
					Employee Benefits-General		200.00
					Health & Safety Program		18.23
					Training & Education-General		32.81
09/25/19	71064	qwe001	CenturyLink	4530-101-000	Water QM Staff-General	230.61	
09/25/19	71065	red003	Red Wing Business Advantage Account	4040-101-000	Employee Benefits-General	322.98	
09/25/19	71066	san003	Sandstrom Land Management	4682-529-000	Stewardship Grant Fund	715.00	
09/25/19	71067	sco003	Barbara Scott	4682-529-000	Stewardship Grant Fund	1,559.56	
09/25/19	71068	sod001	Nichole Soderholm			54.50	
					Employee Benefits-General		40.00
				4020-101-000	Employee Expenses-General		14.50
09/25/19	71069	stp005	St. Paul Public Schools	4370-101-000	Educational Program-General	276.65	
09/25/19	71070	tro002	Cathy Troendle	4370-101-000	Educational Program-General	62.50	
09/25/19	71071	usb002	U.S. Bancorp			4,668.21	
					Water QM Staff-General		7.40
				4670-101-000	Natural Resources Project-General		142.02
				4325-101-000	IT/Website/Software		95.69
				4320-101-000	Office Supplies-General		27.81
				4670-101-000	Natural Resources Project-General		203.51
				4670-101-000	Natural Resources Project-General		57.98
				4530-101-000	Water QM Staff-General		21.40
				4670-101-000	Natural Resources Project-General		216.00
				4320-101-000	Office Supplies-General		14.97
				4350-101-000	Training & Education-General		155.00
				4040-101-000	Employee Benefits-General		267.80
				4670-101-000	Natural Resources Project-General		89.32

Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Detail
				4530-101-000	Water QM Staff-General		93.50
					Health & Safety Program		45.38
					Project Operations-General		101.36
					Water QM Staff-General		16.41
					Training & Education-General		200.00
					Office Supplies-General		17.96
				4670-101-000	Natural Resources Project-General		16.51
				4350-101-000	Training & Education-General		275.00
					Bldg./Site Maintenance		334.85
					Natural Resources Project-General		42.00
					Training & Education-General		550.00
					Training & Education-General		275.00
					Training & Education-General		275.00
					Training & Education-General		275.00
					Training & Education-General		275.00
				4372-101-000	6		220.11
					Training & Education-General		156.23
					Training & Education-General		200.00
09/26/19	71072	usb005	US Bank Equipment Finance		Printing-General	294.00	
09/25/19	71073	vla001	Nichole Soderholm		8	388.33	
				4040-101-000	Employee Benefits-General		280.45
					Employee Expenses-General		107.88
)9/25/19	71074	voy001	US Bank Voyager Fleet Sys.		Vehicle Fuel-General	517.97	
09/25/19	71075	wil007	Patrick Williamson	4020-101-000	Employee Expenses-General	37.12	
09/25/19	71076	bro001	Brock White Company, LLC		Natural Resources Project-General	1,775.43	
09/25/19	71077	hof001	Hoffman & McNamara Nursery & Landscape	4630-516-000	Construction ImpMaint. & Repair	44,038.35	
			Accounts Payable Total:			\$282,527.00	=
EFT	08/09/19	myp001	Payroll Fees	4110-101-000	August 9th Payroll Fee	71.80	
EFT	08/23/19	myp001	Payroll Fees	4110-101-000	August 23rd Payroll Fee	75.50	
Dir.Dep.	09/06/19		Payroll Expense-Net	4010-101-000	September 6th Payroll	27,586.52	
EFT	09/06/19	int002	Internal Revenue Service	2001-101-000	September 6th Federal Withholding	9,373.80	
EFT	09/06/19	mnd001	MN Revenue	2003-101-000	September 6th State Withholding	1,814.75	
EFT	09/06/19	per001	PERA	2011-101-000	September 6th PERA	4,854.59	
EFT	09/06/19	emp002	Empower Retirement	2016-101-000	Employee Def.Comp. Contributions	2,425.00	
EFT	09/06/19	emp002	Empower Retirement	2018-101-000	Employee IRA Contributions	375.00	
Dir.Dep.	09/20/19		Payroll Expense-Net	4010-101-000	September 20th Payroll	25,341.66	
EFT	09/20/19	int002	Internal Revenue Service	2001-101-000	September 20th Federal Withholding	8,651.23	
EFT	09/20/19	mnd001	MN Revenue	2003-101-000	September 20th State Withholding	1,672.24	
EFT	09/20/19	per001	PERA		September 20th PERA	4,793.46	
EFT	09/20/19	emp002	Empower Retirement	2016-101-000	Employee Def.Comp. Contributions	2,425.00	
EFT	09/20/19	emp002	Empower Retirement		Employee IRA Contributions	375.00	-
			Payroll/Benefits			\$89,835.55	=
			TOTAL:			\$372,362.55	



## Summary of Professional Engineering Services During the Period August 24, 2019 through September 6, 2019

	Total Engineering	Total Fees to	Budget Balance	Fees During	District	Plan Implementation
	Budget (2019)	Date (2019)	(2019)	Period	Accounting Code	Task Number
Engineering Administration						
General Engineering Administration	\$76,000.00	\$56,324.14	\$19,675.86	\$2,463.00	4121-101	DW-13
RWMWD Health and Safety/ERTK Program	\$2,000.00	\$759.00	\$1,241.00		4697-101	DW-13
Educational Program/Educational Forum Assistance	\$20,000.00	\$15,759.10	\$4,240.90		4129-101	DW-11
Engineering Review						
Engineering Review	\$55,000.00	\$44,388.16	\$10,611.84	\$1,180.00	4123-101	DW-13
Project Feasibility Studies						
Owasso County Park Stormwater Master Plan and Detailed Design: Phase 1 and Phase 2	\$50,000.00	\$6,594.70	\$43,405.30	\$219.50	4129-101	DW-6
Beltline Resiliency and Phalen Chain Water Level Management Study	\$217,000.00	\$99,873.12	\$117,126.88	\$9,153.00	4129-101	BELT-3
Interim emergency response plan funds for top priority District flooding areas (such as Owasso Basin, Willow Creek, PCU Pond, etc)	\$50,000.00	\$648.00	\$49,352.00		4129-101	DW-19
FEMA Flood Mapping Update	\$90,000.00	\$51,888.50	\$38,111.50	\$1,161.00	4129-101	DW-9
Snail, Grass, and West Vadnais outlet permitting with the MnDNR	\$100,000.00	\$40,426.76	\$59,573.24	\$2,235.50	4129-101	DW-9
Modeling of 500-year event Atlas 14 District-wide (Climate Change Scenario) and	\$70,000.00	\$33,946.00	\$36,054.00	\$6,174.00	4129-101	DW-9
Generation of Flood Maps for Future Outreach Efforts Climate Adaption Workshops with Member Cities	\$100,000.00	\$255.00	\$99,745.00		4129-101	DW-9
Hillcrest Golf Course (multi-use)	\$25,000.00	\$532.50	\$24,467.50	\$532.50	4129-101	DW-6
Wetland Restoration site search. BWSR criteria needed to help guide this idea.	\$25,000.00	\$17,629.00	\$7,371.00	\$1,978.00	4129-101	DW-1, DW-8
Gold BRT planning	\$20,000.00	\$0.00	\$20,000.00		4129-101	DW-6
Priority Pond Assessment (WQ Monitor/Dredge/Treat/Leave As-Is)	\$20,000.00	\$275.50	\$19,724.50		4129-101	DW-5
Contingency*	\$20,000.00	\$3,233.00	\$16,767.00		4129-101	
GIS Maintenance GIS Maintenance	\$5,000.00	\$341.50	\$4,658.50		4170-101	DW-13
	ψ0,000.00	φ0+1.00	φ <del>1</del> ,030.30		-110-101	DVV=13
Monitoring Water Quality/Project Monitoring						
Lake Water Quality Monitoring (Misc QA/QC)	\$10,000.00	\$2,923.68	\$7,076.32	\$119.18	4520-101	DW-2 DW-18
Auto lake monitoring system for Grass Lake Auto lake monitoring system for Owasso Lake	\$20,000.00 \$20,000.00	\$1,625.00 \$5,611.04	\$18,375.00 \$14,388.96	\$625.00 \$64.50	4520-101 4520-101	DW-18 DW-18
Auto lake monitoring system for Phalen Lake	\$20,000.00	\$4,799.50	\$15,200.50	φ04.00	4520-101	DW-18
Auto lake monitoring system for Snail Lake	\$20,000.00	\$1,982.00	\$18,018.00	\$982.00	4520-101	DW-18
Auto lake monitoring system for Wabasso Lake	\$20,000.00	\$4,818.50	\$15,181.50		4520-101	DW-18
Special Project BMP Monitoring (Maplewood Mall, Frost Kennard Spent Lime Filter, Willow Pond CMAC)	\$25,000.00	\$22,110.07	\$2,889.93	\$1,883.00	4520-101	DW-12
Permit Processing, Inspection and Enforcement	£10.000.00	¢2.055.04	\$C 044.0C	¢04.50	4400 404	DW/ 7
Permit Application Inspection and Enforcement Permit Application Review	\$10,000.00 \$55,000.00	\$3,055.94 \$31,533.50	\$6,944.06 \$23,466.50	\$31.50 \$410.00	4122-101 4124-101	DW-7 DW-7
Lake Studies/WRPPs/TMDL Reports						
2019 Grant Applications Tanners Flood Response Tool Model Update	\$30,000.00 \$3,000.00	\$144.00 \$1,545.00	\$29,856.00 \$1,455.00		4661-101 4661-101	 TaL-1
						KL-2, GC-2, WL-3, BL-3,
Internal Load Management Discussions	\$10,000.00	\$2,336.00	\$7,664.00	\$110.00	4661-101	BCL-2, LE-4, BeL-3, LO-5
Twin Lake Public Meeting	\$20,000.00	\$14,522.12	\$5,477.88		4129-101	DW-19
Twin Lake Emergency Response Management 2019	<b>A</b> 5 000 00	\$59,549.27	-\$59,549.27	\$3,389.09	4128-520	
Contingency for Lake Studies	\$5,000.00	\$0.00	\$5,000.00		4661-101	
Desearch Desiste						
Research Projects						
New Technology Mini Case Studies (average 6 per year)	\$12,000.00	\$11,848.00	\$152.00	\$50.00	4695-101	DW-12
New Technology Mini Case Studies (average 6 per year) Kohlman Permeable Weir Test System - Implement Monitoring Plan	\$15,000.00	\$10,327.10	\$4,672.90		4695-101	DW-12
New Technology Mini Case Studies (average 6 per year)				\$50.00 \$17.00		
New Technology Mini Case Studies (average 6 per year) Kohlman Permeable Weir Test System - Implement Monitoring Plan Iron aggregate pond application research project	\$15,000.00	\$10,327.10	\$4,672.90		4695-101	DW-12
New Technology Mini Case Studies (average 6 per year) Kohlman Permeable Weir Test System - Implement Monitoring Plan Iron aggregate pond application research project Project Operations	\$15,000.00	\$10,327.10	\$4,672.90		4695-101	DW-12
New Technology Mini Case Studies (average 6 per year) Kohlman Permeable Weir Test System - Implement Monitoring Plan Iron aggregate pond application research project Project Operations 2018 Tanners Alum Facility Monitoring	\$15,000.00 \$20,000.00	\$10,327.10 \$470.07	\$4,672.90 \$19,529.93	\$17.00	4695-101 4695-101	DW-12 DW-12
New Technology Mini Case Studies (average 6 per year) Kohlman Permeable Weir Test System - Implement Monitoring Plan Iron aggregate pond application research project Project Operations 2018 Tanners Alum Facility Monitoring Capital Improvements	\$15,000.00 \$20,000.00 \$15,000.00	\$10,327.10 \$470.07 \$13,658.75	\$4,672.90 \$19,529.93 \$1,341.25	\$17.00 \$1,500.75	4695-101 4695-101 4650-101	DW-12 DW-12 TaL-3
New Technology Mini Case Studies (average 6 per year) Kohlman Permeable Weir Test System - Implement Monitoring Plan Iron aggregate pond application research project Project Operations 2018 Tanners Alum Facility Monitoring Capital Improvements Wakefield Park/Frost Avenue Stormwater Project	\$15,000.00 \$20,000.00	\$10,327.10 \$470.07	\$4,672.90 \$19,529.93	\$17.00	4695-101 4695-101	DW-12 DW-12
New Technology Mini Case Studies (average 6 per year) Kohlman Permeable Weir Test System - Implement Monitoring Plan Iron aggregate pond application research project Project Operations 2018 Tanners Alum Facility Monitoring Capital Improvements Wakefield Park/Frost Avenue Stormwater Project Commercial Sites Retrofit Projects 2018 (Targeted Retrofits) School Sites Retrofit Projects 2018 (Targeted Retrofits)	\$15,000.00 \$20,000.00 \$15,000.00 \$175,000.00 \$55,000.00 \$55,000.00	\$10,327.10 \$470.07 \$13,658.75 \$69,099.70 \$14,290.70 \$19,924.50	\$4,672.90 \$19,529.93 \$1,341.25 \$105,900.30 \$40,709.30 \$35,075.50	\$17.00 \$1,500.75 \$2,790.50	4695-101 4695-101 4650-101 4128-553 4128-518 4128-518	DW-12 DW-12 TaL-3 WL-1 DW-6 DW-6
New Technology Mini Case Studies (average 6 per year) Kohlman Permeable Weir Test System - Implement Monitoring Plan Iron aggregate pond application research project Project Operations 2018 Tanners Alum Facility Monitoring Capital Improvements Wakefield Park/Frost Avenue Stormwater Project Commercial Sites Retrofit Projects 2018 (Targeted Retrofits) School Sites Retrofit Projects 2018 (Targeted Retrofits) Church Sites Retrofit Projects 2018 (Targeted Retrofits)	\$15,000.00 \$20,000.00 \$15,000.00 \$175,000.00 \$55,000.00 \$55,000.00 \$55,000.00	\$10,327.10 \$470.07 \$13,658.75 \$69,099.70 \$14,290.70 \$19,924.50 \$12,883.50	\$4,672.90 \$19,529.93 \$1,341.25 \$105,900.30 \$40,709.30 \$35,075.50 \$42,116.50	\$17.00 \$1,500.75 \$2,790.50	4695-101 4695-101 4650-101 4128-553 4128-518 4128-518 4128-518 4128-518	DW-12 DW-12 TaL-3 WL-1 DW-6 DW-6 DW-6 DW-6
New Technology Mini Case Studies (average 6 per year) Kohlman Permeable Weir Test System - Implement Monitoring Plan Iron aggregate pond application research project Project Operations 2018 Tanners Alum Facility Monitoring Capital Improvements Wakefield Park/Frost Avenue Stormwater Project Commercial Sites Retrofit Projects 2018 (Targeted Retrofits) School Sites Retrofit Projects 2018 (Targeted Retrofits) Church Sites Retrofit Projects 2018 (Targeted Retrofits) Church Sites Retrofit Projects 2018 (Targeted Retrofit) Roseville High School Campus Stormwater Retrofit (Bennett Lake Subwatershed)	\$15,000.00 \$20,000.00 \$15,000.00 \$175,000.00 \$55,000.00 \$55,000.00	\$10,327.10 \$470.07 \$13,658.75 \$69,099.70 \$14,290.70 \$19,924.50	\$4,672.90 \$19,529.93 \$1,341.25 \$105,900.30 \$40,709.30 \$35,075.50	\$17.00 \$1,500.75 \$2,790.50	4695-101 4695-101 4650-101 4128-553 4128-518 4128-518	DW-12 DW-12 TaL-3 WL-1 DW-6 DW-6
New Technology Mini Case Studies (average 6 per year) Kohlman Permeable Weir Test System - Implement Monitoring Plan Iron aggregate pond application research project Project Operations 2018 Tanners Alum Facility Monitoring Capital Improvements Wakefield Park/Frost Avenue Stormwater Project Commercial Sites Retrofit Projects 2018 (Targeted Retrofits) School Sites Retrofit Projects 2018 (Targeted Retrofits) School Sites Retrofit Projects 2018 (Targeted Retrofits) Church Sites Retrofit Projects 2018 (Targeted Retrofit) Roseville High School Campus Stormwater Retrofit (Bennett Lake Subwatershed) BMP Incentive Fund: Gen1 BMP Design Assistance and Review (cases where Dist is	\$15,000.00 \$20,000.00 \$15,000.00 \$175,000.00 \$55,000.00 \$55,000.00 \$55,000.00	\$10,327.10 \$470.07 \$13,658.75 \$69,099.70 \$14,290.70 \$19,924.50 \$12,883.50	\$4,672.90 \$19,529.93 \$1,341.25 \$105,900.30 \$40,709.30 \$35,075.50 \$42,116.50	\$17.00 \$1,500.75 \$2,790.50	4695-101 4695-101 4650-101 4128-553 4128-518 4128-518 4128-518 4128-518	DW-12 DW-12 TaL-3 WL-1 DW-6 DW-6 DW-6 DW-6
New Technology Mini Case Studies (average 6 per year) Kohlman Permeable Weir Test System - Implement Monitoring Plan Iron aggregate pond application research project Project Operations 2018 Tanners Alum Facility Monitoring Capital Improvements Wakefield Park/Frost Avenue Stormwater Project Commercial Sites Retrofit Projects 2018 (Targeted Retrofits) School Sites Retrofit Projects 2018 (Targeted Retrofits) Church Sites Retrofit Projects 2018 (Targeted Retrofits) Church Sites Retrofit Projects 2018 (Targeted Retrofit) Roseville High School Campus Stormwater Retrofit (Bennett Lake Subwatershed) BMP Incentive Fund: Gen't BMP Design Assistance and Review (cases where Dist is approached by landowner, or landowner is not commercial, school, church).	\$15,000.00 \$20,000.00 \$15,000.00 \$175,000.00 \$55,000.00 \$55,000.00 \$125,000.00 \$125,000.00	\$10,327,10 \$470.07 \$13,658,75 \$69,099,70 \$14,290,70 \$14,290,70 \$19,924,50 \$12,883,50 \$23,026,52 \$43,107,76	\$4,672.90 \$19,529.93 \$1,341.25 \$105,900.30 \$40,709.30 \$40,709.30 \$42,116.50 \$101,973.48 \$6,892.24	\$17.00 \$1,500.75 \$2,790.50 \$3,120.50	4695-101 4695-101 4655-101 4128-553 4128-518 4128-518 4128-518 4128-518 4128-518 4128-518	DW-12 DW-12 TaL-3 WL-1 DW-6 DW-6 DW-6 BeL-4 DW-6
New Technology Mini Case Studies (average 6 per year) Kohlman Permeable Weir Test System - Implement Monitoring Plan Iron aggregate pond application research project Project Operations 2018 Tanners Alum Facility Monitoring Capital Improvements Wakefield Park/Frost Avenue Stormwater Project Commercial Sites Retrofit Projects 2018 (Targeted Retrofits) School Sites Retrofit Projects 2018 (Targeted Retrofits) School Sites Retrofit Projects 2018 (Targeted Retrofits) Church Sites Retrofit Projects 2018 (Targeted Retrofit) Roseville High School Campus Stormwater Retrofit (Bennett Lake Subwatershed) BMP Incentive Fund: Gen1 BMP Design Assistance and Review (cases where Dist is	\$15,000.00 \$20,000.00 \$15,000.00 \$175,000.00 \$55,000.00 \$55,000.00 \$55,000.00 \$125,000.00	\$10,327.10 \$470.07 \$13,658.75 \$69,099.70 \$14,290.70 \$19,924.50 \$12,883.50 \$23,026.52 \$43,107.76 \$0.00	\$4,672.90 \$19,529.93 \$1,341.25 \$105,900.30 \$40,709.30 \$35,075.50 \$42,116.50 \$101,973.48 \$6,892.24 \$50,000.00	\$17.00 \$1,500.75 \$2,790.50 \$3,120.50 \$1,112.50	4695-101 4695-101 4695-101 4128-553 4128-518 4128-518 4128-518 4128-518 4128-518 4128-518 4128-529 4128-520	DW-12 DW-12 TaL-3 WL-1 DW-6 DW-6 DW-6 BeL-4
New Technology Mini Case Studies (average 6 per year) Kohlman Permeable Weir Test System - Implement Monitoring Plan Iron aggregate pond application research project Project Operations 2018 Tanners Alum Facility Monitoring Capital Improvements Wakefield Park/Frost Avenue Stormwater Project Commercial Sites Retrofit Projects 2018 (Targeted Retrofits) School Sites Retrofit Projects 2018 (Targeted Retrofits) School Sites Retrofit Projects 2018 (Targeted Retrofits) Church Sites Retrofit Projects 2018 (Targeted Retrofit) Roseville High School Campus Stormwater Retrofit (Bennett Lake Subwatershed) BMP Incentive Fund: Gen'l BMP Design Assistance and Review (cases where Dist is approached by landowner, or landowner is not commercial, school, church). Lowering West Vadnais Lake Outlet Cottage Place Wetland Restoration Markham Pond Aeration Project and Grant Reporting	\$15,000.00 \$20,000.00 \$15,000.00 \$175,000.00 \$55,000.00 \$55,000.00 \$125,000.00 \$125,000.00 \$50,000.00 \$50,000.00	\$10,327,10 \$470.07 \$13,658.75 \$69,099.70 \$14,290.70 \$14,290.70 \$19,924.50 \$12,883.50 \$23,026.52 \$43,107.76	\$4,672.90 \$19,529.93 \$1,341.25 \$105,900.30 \$40,709.30 \$40,709.30 \$42,116.50 \$101,973.48 \$6,892.24	\$17.00 \$1,500.75 \$2,790.50 \$3,120.50	4695-101 4695-101 4655-101 4128-553 4128-518 4128-518 4128-518 4128-518 4128-518 4128-518	DW-12 DW-12 TaL-3 WL-1 DW-6 DW-6 DW-6 BeL-4 DW-6 BeL-4 DW-6 BeL-4 DW-6
New Technology Mini Case Studies (average 6 per year) Kohlman Permeable Weir Test System - Implement Monitoring Plan Iron aggregate pond application research project Project Operations 2018 Tanners Alum Facility Monitoring Capital Improvements Wakefield Park/Frost Avenue Stormwater Project Commercial Sites Retrofit Projects 2018 (Targeted Retrofits) School Sites Retrofit Projects 2018 (Targeted Retrofits) School Sites Retrofit Projects 2018 (Targeted Retrofits) Church Sites Retrofit Projects 2018 (Targeted Retrofit) Roseville High School Campus Stormwater Retrofit (Bennett Lake Subwatershed) BMP Incentive Fund: Gen'I BMP Design Assistance and Review (cases where Dist is approached by landowner, or landowner is not commercial, school, church). Lowering West Vadnais Lake Outlet Cottage Place Wetland Restoration Markham Pond Aeration Project and Grant Reporting Aldrich Arena Plans and Specifications	\$15,000.00 \$20,000.00 \$15,000.00 \$55,000.00 \$55,000.00 \$55,000.00 \$125,000.00 \$50,000.00 \$50,000.00 \$10,000.00 \$1,000.00 \$125,000.00	\$10,327,10 \$470.07 \$13,658.75 \$69,099.70 \$14,290.70 \$14,290.70 \$12,883.50 \$23,026.52 \$43,107.76 \$0.00 \$61,591.80 \$6,002.48 \$143,643.26	\$4,672.90 \$19,529.93 \$1,341.25 \$105,900.30 \$40,709.30 \$40,709.30 \$42,116.50 \$101,973.48 \$6,892.24 \$50,000.00 \$38,408.20 -\$5,002.48 -\$18,643.26	\$17.00 \$1,500.75 \$2,790.50 \$3,120.50 \$1,112.50 \$2,082.50 \$750.00 \$3,644.56	4695-101 4695-101 4695-101 4650-101 4128-553 4128-518 4128-518 4128-518 4128-518 4128-518 4128-518 4682-529 4128-551 4682-529	DW-12 DW-12 TaL-3 WL-1 DW-6 DW-6 DW-6 BeL-4 DW-6 DW-6 DW-6 DW-9 DW-1, DW-8 KC-1 DW-6
New Technology Mini Case Studies (average 6 per year) Kohlman Permeable Weir Test System - Implement Monitoring Plan Iron aggregate pond application research project Project Operations 2018 Tanners Alum Facility Monitoring Capital Improvements Wakefield Park/Frost Avenue Stormwater Project Commercial Sites Retrofit Projects 2018 (Targeted Retrofits) School Sites Retrofit Projects 2018 (Targeted Retrofits) School Sites Retrofit Projects 2018 (Targeted Retrofits) School Sites Retrofit Projects 2018 (Targeted Retrofit) Roseville High School Campus Stormwater Retrofit (Bennett Lake Subwatershed) BMP Incentive Fund: Gen'I BMP Design Assistance and Review (cases where Dist is approached by landowner, or landowner is not commercial, school, church). Lowering West Vadnais Lake Outlet Cottage Place Wetland Restoration Markham Pond Aeration Project and Grant Reporting Aldrich Arena Plans and Specifications Willow Pond CMAC Implementation	\$15,000.00 \$20,000.00 \$15,000.00 \$55,000.00 \$55,000.00 \$55,000.00 \$125,000.00 \$125,000.00 \$50,000.00 \$100,000.00 \$100,000.00	\$10.327.10 \$470.07 \$13,658.75 \$69,099.70 \$14,290.70 \$19,924.50 \$12,883.50 \$23,026.52 \$43,107.76 \$0.00 \$61,591.80 \$6,002.48	\$4,672.90 \$19,529.93 \$1,341.25 \$105,900.30 \$40,709.30 \$40,709.30 \$42,116.50 \$42,116.50 \$101,973.48 \$6,892.24 \$50,000.00 \$38,408.20 \$55,002.48	\$17.00 \$1,500.75 \$2,790.50 \$3,120.50 \$1,112.50 \$2,082.50 \$750.00	4695-101 4695-101 4695-101 4128-553 4128-518 4128-518 4128-518 4128-518 4682-529 4128-520 4128-529 4128-521	DW-12 DW-12 TaL-3 WL-1 DW-6 DW-6 DW-6 BeL-4 DW-6 BeL-4 DW-6 BeL-4 DW-6 DW-6 CDW-9 DW-1, DW-8 KC-1
New Technology Mini Case Studies (average 6 per year) Kohlman Permeable Weir Test System - Implement Monitoring Plan Iron aggregate pond application research project Project Operations 2018 Tanners Alum Facility Monitoring Capital Improvements Wakefield Park/Frost Avenue Stormwater Project. Commercial Sites Retrofit Projects 2018 (Targeted Retrofits) School Sites Retrofit Projects 2018 (Targeted Retrofits) School Sites Retrofit Projects 2018 (Targeted Retrofits) School Sites Retrofit Projects 2018 (Targeted Retrofit) Roseville High School Campus Stormwater Retrofit (Bennett Lake Subwatershed) BMP Incentive Fund: Gen'I BMP Design Assistance and Review (cases where Dist is approached by landowner, or landowner is not commercial, school, church). Lowering West Vadnais Lake Outlet Cottage Place Wetland Restoration Markham Pond Aeration Project and Grant Reporting Aldrich Arena Plans and Specifications Willow Pond CMAC Implementation CIP Project Repair & Maintenance	\$15,000.00 \$20,000.00 \$15,000.00 \$55,000.00 \$55,000.00 \$55,000.00 \$125,000.00 \$50,000.00 \$50,000.00 \$10,000.00 \$1,000.00 \$125,000.00	\$10.327.10 \$470.07 \$13,658.75 \$69,099.70 \$14,290.70 \$19.924.50 \$12,883.50 \$23,026.52 \$43,107.76 \$0.00 \$61,591.80 \$60,022.48 \$143,643.26 \$130,063.11	\$4,672.90 \$19,529.93 \$1,341.25 \$105,900.30 \$40,709.30 \$40,709.30 \$42,116.50 \$101,973.48 \$6,892.24 \$50,000.00 \$38,408.20 -\$5,002.48 -\$18,643.26	\$17.00 \$1,500.75 \$2,790.50 \$3,120.50 \$1,112.50 \$2,082.50 \$750.00 \$3,644.56	4695-101 4695-101 4695-101 4128-553 4128-518 4128-518 4128-518 4128-518 4128-518 4682-529 4128-520 4128-551 4682-529 4128-551 4682-529 4128-554	DW-12 DW-12 TaL-3 WL-1 DW-6 DW-6 DW-6 BeL-4 DW-6 DW-6 DW-6 DW-9 DW-1, DW-8 KC-1 DW-6
Kohlman Permeable Weir Test System - Implement Monitoring Plan Iron aggregate pond application research project Project Operations 2018 Tanners Alum Facility Monitoring Capital Improvements Wakefield Park/Frost Avenue Stormwater Project Commercial Sites Retrofit Projects 2018 (Targeted Retrofits) School Sites Retrofit Projects 2018 (Targeted Retrofits) Church Sites Retrofit Projects 2018 (Targeted Retrofit) Roseville High School Campus Stormwater Retrofit (Bennett Lake Subwatershed) BMP Incentive Fund: Gen'I BMP Design Assistance and Review (cases where Dist is approached by landowner, or landowner is not commercial, school, church). Lowering West Vadnais Lake Outlet Cottage Place Wetland Restoration Markham Pend Aeration Project and Grant Reporting Aldrich Arena Plans and Specifications	\$15,000.00 \$20,000.00 \$15,000.00 \$55,000.00 \$55,000.00 \$55,000.00 \$125,000.00 \$50,000.00 \$50,000.00 \$100,000.00 \$125,000.00 \$100,000.00 \$100,000.00 \$100,000.00 \$100,000.00 \$100,000.00 \$100,000.00 \$150,000.00	\$10,327,10 \$470.07 \$13,658.75 \$69,099.70 \$14,290.70 \$14,290.70 \$12,883.50 \$23,026.52 \$43,107.76 \$0.00 \$61,591.80 \$6,002.48 \$143,643.26	\$4,672.90 \$19,529.93 \$1,341.25 \$105,900.30 \$40,709.30 \$35,075.50 \$42,116.50 \$101,973.48 \$6,892.24 \$50,000.00 \$38,408.20 -\$5,002.48 -\$18,643.26 -\$30,063.11	\$17.00 \$1,500.75 \$2,790.50 \$3,120.50 \$1,112.50 \$1,112.50 \$2,082.50 \$750.00 \$3,644.56 \$747.00	4695-101 4695-101 4695-101 4128-553 4128-518 4128-518 4128-518 4128-518 4128-518 4128-518 4128-518 4128-518 4128-551 4128-551 4128-554 4695-101 4128-516	DW-12 DW-12 TaL-3 WL-1 DW-6 DW-6 DW-6 BeL-4 DW-6 BeL-4 DW-6 DW-9 DW-1, DW-8 KC-1 DW-6 BeL-4 KL-3 DW-5
New Technology Mini Case Studies (average 6 per year) Kohlman Permeable Weir Test System - Implement Monitoring Plan Iron aggregate pond application research project Project Operations 2018 Tanners Alum Facility Monitoring Capital Improvements Wakefield Park/Frost Avenue Stormwater Project Commercial Sites Retrofit Projects 2018 (Targeted Retrofits) School Sites Retrofit Projects 2018 (Targeted Retrofits) Church Sites Retrofit Projects 2018 (Targeted Retrofits) Roseville High School Campus Stormwater Retrofit (Bennett Lake Subwatershed) BMP Incentive Fund: Gen'l BMP Design Assistance and Review (cases where Dist is approached by landowner, or landowner is not commercial, school, church). Lowering West Vadnais Lake Outlet Cottage Place Wetland Restoration Markham Pond Aeration Project and Grant Reporting Aldrich Arena Plans and Specifications Willow Pond CMAC Implementation CIP Project Repair & Maintenance Kohlman Lake Macrophyte Mgmt	\$15,000.00 \$20,000.00 \$15,000.00 \$55,000.00 \$55,000.00 \$55,000.00 \$55,000.00 \$55,000.00 \$100,000.00 \$100,000.00 \$100,000.00 \$100,000.00 \$100,000.00 \$100,000.00	\$10.327.10 \$470.07 \$13,658.75 \$69,099.70 \$14,290.70 \$14,290.70 \$19,924.50 \$12,883.50 \$23,026.52 \$43,107.76 \$0.00 \$61,591.80 \$60,092.48 \$143,643.26 \$130,063.11 \$5,312.00	\$4,672.90 \$19,529.93 \$1,341.25 \$105,900.30 \$40,709.30 \$40,709.30 \$42,116.50 \$101,973.48 \$6,892.24 \$50,000.00 \$38,408.20 \$38,408.20 \$5,002.48 \$18,643.26 \$30,063.11 \$312.00	\$17.00 \$1,500.75 \$2,790.50 \$3,120.50 \$1,112.50 \$2,082.50 \$750.00 \$3,644.56 \$747.00 \$1,280.00	4695-101 4695-101 4695-101 4128-553 4128-518 4128-518 4128-518 4128-518 4128-518 4128-529 4128-529 4128-529 4128-551 4682-529 4128-551 4682-554 4695-101	DW-12 DW-12 TaL-3 WL-1 DW-6 DW-6 DW-6 BeL-4 DW-6 DW-6 DW-9 DW-1, DW-8 KC-1 DW-6 BeL-4 KL-1 DW-6 BeL-4 KL-3

TOTAL PAYABLE FOR PERIOD 08/24/2019 - 09/06/2019

\$59,752.84 Barr declares under the penalties of Law that this Account, Claim, or Demand is just and that no part has been paid.

BILL

Bradley J. Lindaman, Vice President

### 2019 STORMWATER BMP SELECTIVE TREE REPLACEMENT RAMSEY-WASHINGTON METRO WATERSHED DISTRICT

**Progress Payment Application No. 1** 

			1		
1.	Completed to Date:	\$ 46,351.00	1 vl		
2.	Less Previously Billed:	\$ -	en est "		
3.	Amount Completed This Period:				\$ 46,351.00
4.	Amount Previously Retained:				\$ 
5.	Amount Retained This Period (See Note 1):				\$ (2,312.65)
6.	Total Amount Retained (See Note 2):		\$	2,312.65	
7.	Retainage Released Through This Period:				
8.	Less Total Retainage Remaining:		\$	2,312.65	
9.	Amount Due This Period:				\$ 44,038.35

Note 1: At rate of 10% until Completed to Date equals 50% of current Contract Price and a rate of 0% thereafter. Note 2: Maximum amount is 5% of current Contract Price (Contract Price is \$46,253.00)

SUBMITTED BY:

9/24/2019 Name: Mike McNamara Date: Title: President Contractor: Hoffman & McNamara Nursery and Landscape

Date:

Signature:

**RECOMMENDED BY:** 

Name: Title: Engineer: Andrea Wedul Project Manager Barr Engineering Company 9/24/2019

Signature:

APPROVED BY: Name: Marj Ebensteiner Date: Title: President Ramsey-Washington Metro Watershed District Owner:

Signature:

								Barr Er	RED BY: ngineering, Inc oject #236210		1	BAR				
Aaplev eplac	amsey-Washington Metro Waters (RWMWD) vood Mall 2019 Stormwater BMP Selec ement iction Contract Amount for Progress P	ee	BID TOTAL			TOTAL COMPLETED THROUGH THIS PERIOD				D						
ltem No.	liem Description	Unit	Estimated Quantity	U	nit Price	Exte	ended Cost	U					Actual Unit Price Quantity		Exte	ended Cost
A	General conditions, mobilization/demobilization, Contractor O&P, etc. (P)	LS	1	\$	4,500.00	\$	4,500.00	\$	4,500.00	1	\$	4,500.00				
В	Selective tree removal and disposal - all above and below- ground material (all planting areas) (P)	EA	71	\$	245.00	\$	17,395.00	\$	245.00	73	\$	17,885.00				
С	Planting soil with mycorrhizal additive (P)	СҮ	10	\$	65.00	\$	650.00	\$	65.00	8	\$	520.00				
D	Rock mulch [Type A mulch] (2" depth) (P) Furnish & install	СҮ	14	\$	167.00	\$	2,338.00	\$	167.00	8	\$	1,336.00				
E	Double-shredded hardwood mulch [Type B mulch] Furnish & install (3" depth) (P)	СҮ	0.5	\$	140.00	\$	70.00	\$	140.00	1.5	\$	210.00				
F	Deciduous tree, cont. or gravel- bed grown (P) Furnish & install	EA	71	\$	300.00	\$	21,300.00	\$	300.00	73	\$	21,900.00				
					TOTAL BID AMOUNT	\$	46,253.00	(F	YAY APPLIC	TOTAL ATION #1)	\$	46,351.00				

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# Permit Program \*\*\*\*\*\*\*

### Permit Application Coversheet

Date October (	02, 2019			
Project Name A	merican Indian Magr	net School Addition	Project Number	19-42
Applicant Name	Angela Selb-Sack,	Saint Paul Public Schools		
Type of Developr	nent Institutional			
Street East in the school along with playground. The met with constru	cated at the existing e City of St. Paul. Th n other improvemen cotal project area is nction of an undergr	g American Indian Magnet S le applicant is proposing to ts including staff and bus p 5.41 acres. Stormwater tre ound infiltration system. Pr s to capture sediment and f	build an addition barking lots, sidew atment requireme retreatment will in	to the valks, and ents will be
Watershed Distri	ct Policies or Stand	ards Involved:		
□ Wetlands		✓ Erosion and Sediment C	Control	
Stormwater	Management	🗆 Floodplain		
Water Quantity C The proposed sto		ent plan is sufficient to har	ndle the runoff fro	om the site.
Water Quality Co <i>Short Term</i>	nsiderations			
The proposed erc resources during		control plan is sufficient to	protect downstre	eam water
Long Term				
The proposed sto downstream wat		ent plan is sufficient to pro	tect the long tern	n quality of
Staff Decommon	dation			

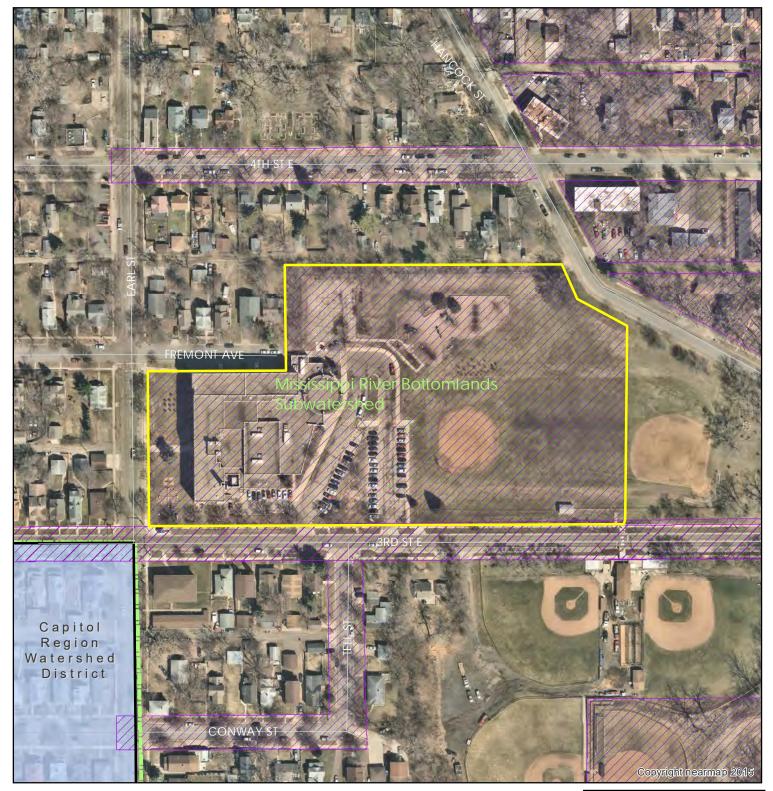
Staff Recommendation

Staff recommends approval of this permit with the special provisions.

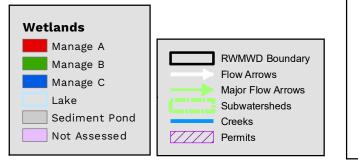
Attachments:

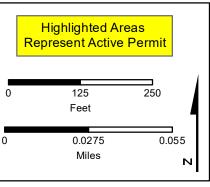
- ✓ Project Location Map
- ✓ Project Grading Plan

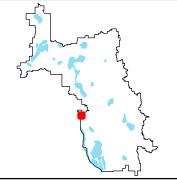
## #19-42 American Indian Magnet School



Note: Shaded area is outside RWMWD







19-42

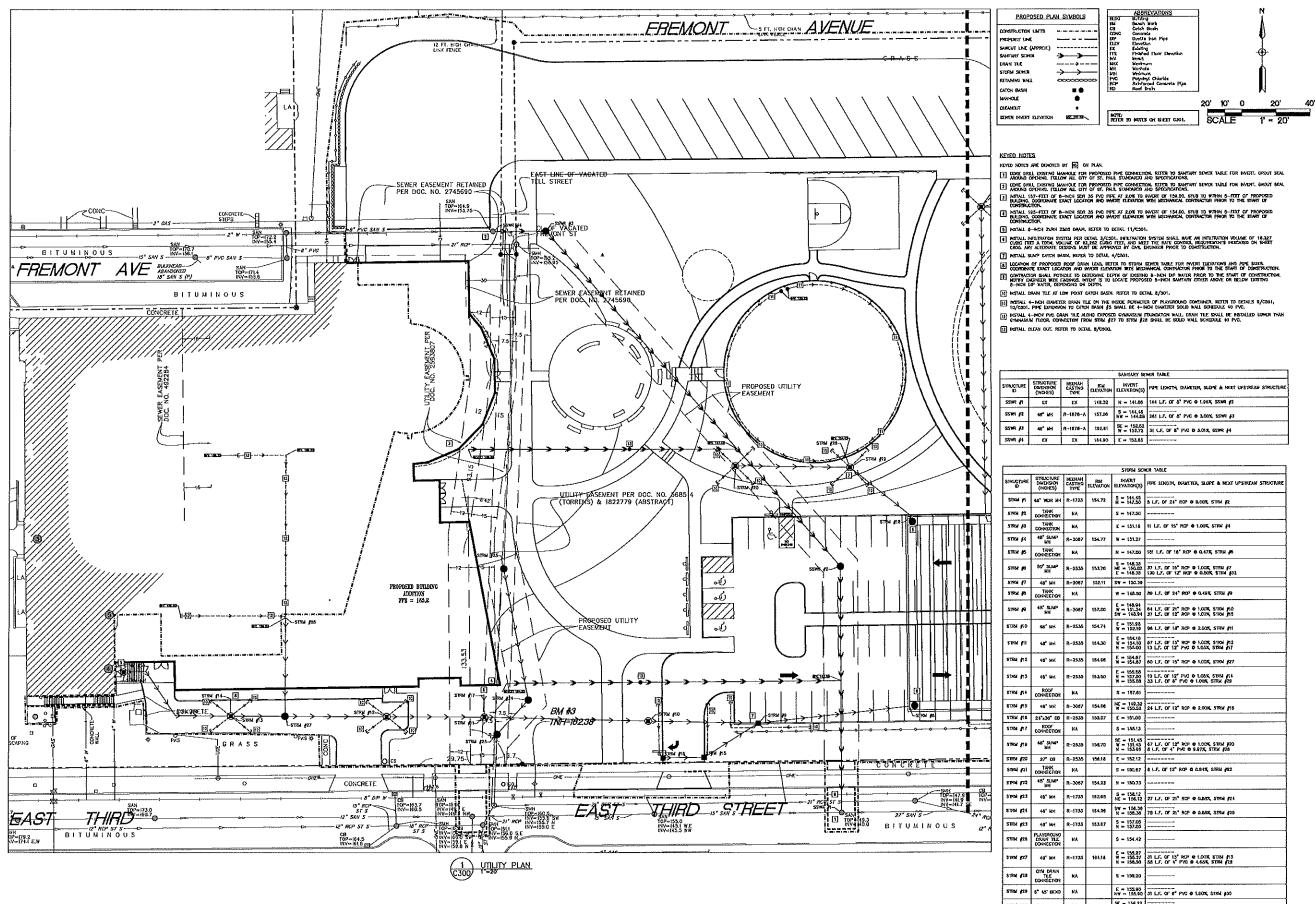
### **Special Provisions**

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

2. The applicant shall submit an executed stormwater maintenance agreement for the proposed stormwater facilities.

3. The applicant shall submit contact information for the trained erosion control coordinator responsible for implementing the Stormwater Pollution Prevention Plan (SWPPP).

4. The applicant shall submit a copy of the approved Minnesota Pollution Control Agency's NPDES Construction Permit coverage for the project.



STRV ADD 1" 45" BEND HA STRM (31 B\* ZURN NA STRW A32 12' FES NA

1	ELEVATION	ELEVATION(S)	FILL LENGING DEVELOPING ALL ALL ALL ALL ALL ALL ALL ALL ALL AL
,	154.72	S = 147.55	S LF. DF 24" RCP O B.CCR, STRIE /2
		S = 147.50	
		E = 131.16	11 LF, OF 15' RCP & LOOK, STRM #4
,	156.77	W = 151.27	
		X - 147.50	181 LF. OF 16" RGP & 0.47%, STRM #5
5	153,70	S = 145.35 HE = 150.02 E = 146.35	37 LF, OF 15" RCP & 1.000, STRM #7 100 LF, OF 12" RCP & 0.50%, STRM #32
2	152.11	SW = 150.39	
		W - 148.50	89 L.F. OF 24" ROP © 0.49%, STRN #9
,	157,00	E = 148.94 W = 151.34 SW = 148.94	64 LF, OF 21" RCP & 1,003, STRM (9,0 37 LF, OF 12" RCP & 1,072, STRM (95
5	151.74	E = 151.98 W = 152.19	98 LF. OF 18 RCP & 2.005, STRM #11
5	164.30	E = 16610 W = 15410 H = 15500	57 LF. OF 15" RCP @ 1.000, STRM /12 13 LF. OF 12" PVO @ 1.033, STRM /17
5	154.06	E = 154.87 ¥ = 154.87	60 LJF, OF 15" ROP & 1.00%, STRN (27
5	183.50	E = 155.58 N = 157.50 W = 155.58	10 LF. OF 12" PVC & LOSK STRU #14 33 LF. OF 8" FVC & LOSK STRU #25
		S = 157.61	
1	154.08	H42 = 149.32 W = 150.52	24 LF. OF 12" RCP & 2.000 STRM #15
5	155.07	£ = 151.00	
		S = 135.13	
5	15170	SE = 151,45 W = 151,45 N = 153,66	57 LF. OF 12" RCP @ 1.00%, \$184 /20 8 LF, OF 4" PHC @ 5.87%, \$184 /28
5	158.18	E = 152.12	
_		S = 150.67	0 L.F. OF 12" ROP 0 0.91%, STRU /92
1	154.13	N H 350.73	
5	152.65	5 ↔ \$3£12 NE = 156.12	27 L.F. OF 21" ROP @ QUBSS, STRM #24
\$	164.20	SW = 156.36 N = 156.38	78 LF. OF 21" RCP & 0.68%, STRM #25
5	163.87	S = 157.05 N = 157.05	
		s - 154.42	
\$	164.18	E = 155.27 W = 156.27 N = 156.50	31 L.C. OF 13' RCP @ 1.0254 STRM [13 55 L.F. OF 4' PVG @ 4.663, STRM [23
		S = 159.20	
			31 L.F. OF 8" PVC & 1.00%, STRM \$30
		SE = 156.22 W = 156.22	13 L.F. OF 6" PVC @ 1.00% STRM #31
	150.00	E - 108.34	<b>-</b>
		W - 149.00	

	SANITARY SEWER TABLE			
5	ELEVATION	INVERT ELEVATION(S)	pape lewith, dameter, slope & next upstream structuri	
	118.32	N = 141.66	144 L.F. OF & PHC & LPAX SSMA #2	
•٨	157,08	5 = 144,45 NW - 144.68	261 L.F. OF & PVC & LOOX SSWE #3	
- 8	152.61	SE = 152.62 W = 152.72	31 LF. OF B" PVO D 3.01% SSIR #4	
	184.90	E # 153.85	******	

Note Description

09:30/19 DD D6/11/19 Watershed D9/17/19 Watershed D9/17/19 Watershed Ro

SITE PLAN	
APPLICATION	
9/13/19	

Donameri Pitasa	SITE PLAN APPLICATION
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PC/AC:	1.C
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Resistons

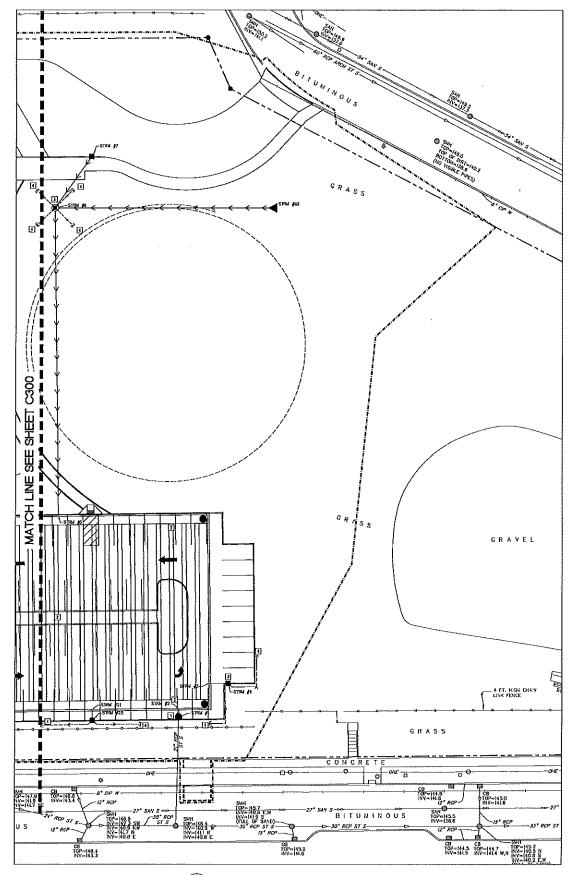
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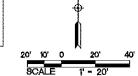
Centraham Group Arabitactura, Inc. 51 Artsony Main 201 Main BL SE 6 Art 325 Minnespila, MM 551 M

Tel. 6123733430 Fax: 6123734440

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PROPOSED PLAN SYMBOLS	ABBREVATIONS BLD9 Building Call Banch Hork
	CB Buch Buch CORO Courses Dr Durths Inc. Fre Dr Durths Inc. Fre Dr Durths CC The Durths CC The Durths CC The Durth of Durths Int. The Durth of Durths Int. Schwarz Proc. Payloyd Diacka RD Buch Courses Fre Durth Schwarz Proc. Payloyd Diacka
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#### KEYED NOTES KEYED NOTES ARE DENOTED BY NO ON PLAN.

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3 INSTALL INTERTATION SYSTEM FOR DETAIL 3/CSO1, INFORMATION SYSTEM SWILL HAVE AN INTERTATION YOU'VE OF 18,327 CMSC FEET A TOTA, YOU'VE OF 52.82 CHEG CITE, AND MEET THE RATE CONTROL RECOMPENDENT NOTATED ON SHEET COOL AND AND CONTROL SECIOR MAIL BE APPROVED BY CHALL DISCRETE THE PROFE TO CONTROL TRANSMISSION NOTATED

3 INSTALL SUMP CATCH DASAN

E INSTALL ORAN THE AT LOW POINT CATCH BASIN, ROTER TO DETAIL 8/501.

### ST. PAUL'S NOTES:

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- saye work ste rodurindente. The contractor simil provide a continuous, accessfiel and save potestiran wurkay that lette as and wi Natio standards & working N a scenaux area, and traitid control per an watco retrirendents for work in the public roht of way.
- NOTED INVENUES & RUCKINS IN A SUBMIC MALA MAD, NO DAVIDE CONTRAL PER UN NUCLE MULTURINES HOW WOOK IN THE ADDE DAVID IN NOT. I DO PRIME RANZES IN RE REAL OF SUM IN RE DAVIDARES IS STRUEME CONDUCT OF LIKEL NOT INSTALLING PRIME ELEMENTAL INVENT DA MODULARIA DI JULIO ADJOINT LIMITE SI TE REAL MATTE SUB ALCONTRAL MAD, NO DAVID E CONTRAL PER PRIME RELEVENCE LIMITERIA. INVENT D MULTURI STRUE STRUE CONSTRUCTIVE MET MALA MULTURINE PRIME TOTALISTICA INTO ALCONTRAL TUTURI TENES TO TO TEST CONCENSION HERRIS TO RUM THEIR SCINCE INTO A STEL AND (MHERE RECORDED) ELEMENTING PLANE FOR REVIEW BY THE PARAGO MULTURI REVIEW COLUMENTE.
- OTTY OF \$1. PAUL PERMIT REQUIREMENTS:
- 4.1. ORDERNO CESTRUCTION AND DIGAVARION PERAITS: CONTACT FUELD WORKS: RIGHT OF WAY SERVICE DESK AT (651) 265-6151. If 16 REPORTAL RECOMMENDED THAT CONTINUEND CALL FOR CONT BETAINTE FROM TO DECKNA TO CREWN ACCURATE CONT RETINATES.
- 4.2. DESTRUCTION FORMETS: THE CONTRACTOR MUST DETAIL AN OESTRUCTION FORMET IF CONSTRUCTION (INCLUDING SAL FEACES) MILL BLOCK ON STRUCTS SECIENCIAS ON ALLING, OR F DRIVE ON DURING. 4.1. EXCAVATION PERMITS: ALL OCCING IN THE PUBLIC RIGHT OF WAY REQUIRES AN EXCAVATION PERMIT. IF THE PROPOSED BUILDING IS DLOSE TO THE INTERT IN AND LICENSING THE INTERT IN RIGHT OF WAY, AND LICENSING THE INTERT IN RIGHT OF WAY IS RECEIPED TO FACTOR.
- 4.4. FALLING TO SCOLEE PERMITY. FALLING TO SCILENC OFFICIENCY PERMITY OF EXCAVATION PERMITY INL RESULT IN A DOUBLE-PERMIT FEE AND OTHER TECTS RECOMED LINCOLS OFF OF 37, PAIL INSTANCE CODES.
- A. REQUIREMENTS TO WORK IN THE PUBLIC RIGHT OF WAYS
- All utilizes and contractives working in the public right of way wist to be registered, insured and beneved, as redocheded by the Rubic works served desk. (as1-zeg-asis).
- ALL WORK ON DURING MATCHING, AND SOCIALING WITHIN THE PUBLIC ROUT OF MAY WIGT BE DONE BY A UCDINED AND BONDED CONTRACTOR UNDER A FISTAT TROM PUBLIC WORKS SOCIALIX SECTION (85)-266-0120), SOCIALIX GRADIS WUST BE CARRED ACROSS ORMENINS.
- ABANDIANT DISTING SENTER SERVICE OF MUSICI HER CONNECTIONS TO CITY SENER MUST BE DONE TO CITY ETANOARDS BY A LICENSED HOUSE DAVIN CONTINUED MUSICIA A PORTY FIGUR PIELICI INCINES SENER SLICTICAL (AS1-236-6234).
- LALINGTO WEEK A LINER ( JUNE ) JUNE VIEW HERS HERS ALTON (101-286-234). A. ALINGTO WAY AND SOMICES THE ENANCHARGENHI TO STAMP SUMANUS FOR NETALIATION OF NATION WASH, AND SOMICES THE SUM ALTONOMY SUMADAS SUMANDAS AND ALTONOMY AND ALTONOMY
- דבו הוו עום או האמינה שיר בעובד או האמינה 11.1. הוב הצהו גרואה כי האמינה בנרהגעל. או האמינה בטהביה, במסביר גבוצ גאט/כא נוסאחוט וא דאנ סרוי? אמי אניונה שי 2. סוגראניכונה צו דו בטרואבי גנגל. אסארטאנאין היו המיצור (151-152-2117) הופה דו ההיגרואס או אסטרנאעס הצוב.
- 3. Business signs will require a suppart revery and son predict from the edwarded of suppart and references site plan approval does not constitute approval of business sicks shown on the site plan contact take of ost taken (451-248-5000) if you knot any question approved.
- 4. CARE MUST BE TAKEN DURANG CONSTRUCTION AND EXCANATION TO PROTECT ANY SUBARTY MONUMENTS AND/DR PROPERTY ROMS, CALL SAM GESCHI OF PUBLIC MORES SURVEYING (611-266-6073) IF YOU HAVE ANY OUTSTICKS.
- lestande of dosts for myndert resignation. 8, fre wat er werkwerk jong i doersent the Balling Footprint and 10° to TDI (feit duitsde of the Balling Footprint, 7, ware services to be installe according to spring (standards for the installation of wher ward."
- A MANTAN & THE OF OTHER OVER ALL RATER MANS AND SERVICES.

- , where not be the 4 duct, but and and and so and subsets. In the notating the 4 duct, bein free not be class 32, after hatenal for 6' and 4' ductle. For fife not be class 53, after hatenal the first variation first here and the class 54. It, marken 3 the variation scattering marken water and scatter press of a 12-ben scatter with her doesn't mellaten per i Faut 6-10 the tradication for the class for the
- 12. REFER TO SPRAYS "STANDARDS FOR THE INSTALLATION OF WATER MANS" STANDARD PLATE D-11 FOR RESTRANED PIPE REQUIREMENT. LA LL ALTA DE BENNE VALVE BOES WITHEN DIATELETUR ARLA MAST BE EDROSED AND BROCHT TO GAVE LAND COMPLETION OF CONSTRUCTION 24. ALL ANTE BENNE VALVE BOES WITHEN DIATELETUR ARLA MAST BE EDROSED AND BROCHT TO GAVE LAND COMPLETION OF CONSTRUCTION 24. ALL APER WORK DESIGE OF PROPERTY TO BE PERTURAND BY A PLANEDE LECENSED BY THE STATE OF KANNESDIA AND CENTRED BY THE GAVE

#### NELIBATION LANS MOTES:

- I. THE UNDERGROUND MULTRATION SYSTEM SHOULD BE FREE OF COMPACTED SOLLS, KEPT OFTUNE, NO PROTECTED FROM SEDEMENT UNIT. CONTROLITING AREAS ARE PERMANENTLY RESTORED.
- CONTRACTOR MAY HAVE TO OVER-EXCAVATE TO FIND SOLS SUITABLE FOR PARLICATION.
- NOTFY MODILE SOCIENCIAL RAISEY-WASHINGTON WETRO WATERSHED DISTINCT, AT 681-792-AT LEAST 48 HOURS PROR TO CONSTRUCTION OF THE UNDERGROUND DESTRUTION SYSTEM.

- . All water wang simil be ductle from PEPE, class 62, unliss noted otherwise. All water wan simil, have a winnam depth of comprise of 7.5 teet over top of water wan.

	STOPN SEVER TABLE				
striktivre D	STRUCTURE Datension (NOHES)	NEENAH Casting Type	RW ELEVATOR	INVERT ELEVATION(5)	PIPE LENGTH, CHANGER, SLOPE & NEXT UPSTREAM STRUCTURE
stroi pi	46" WEIR WH	R-1753	15L72	S = 144.45 N = 147.50	5 L.F. OF 24" RCP & 0.0005 STKM #2
strai pr	TANK CONNECTION	RA		9 - 147.50	
strai jis	TANK CONNECTION	RA		E = 151.18	11 LF. OF 15" RCP @ 1.0005 STRN #4
5TRM #4	44" 5048" 1415	R3087	15L77	W = 151.27	
sticat po	TANK CONNECTION	NA		N = 147.59	181 L.F. OF 18" ROP 0 0.47%, STRM #5
аткы ∦а	60" SUAP NH	R-2535	153.70	S = 148.35 NE = 150.02 E = 148.35	37 LF. OF 15" RCP & LOCK, STRA /7 130 LF. OF 12" RCP & 0.600, STRA /42
strai (†	45° MH	R-3067	152,11	57 = 150.39	
stem (ps	TANK CONNECTION	NA		W = 148.50	69 L.F. OF 24" RCP 0 0.49%, 5TRM /9
атки ра	48" SING NH	R-3067	157.00	E = 142.94 W = 151.34 SW = 140.94	84 L.F. OF 21" RCP & 1.00%, STRM (10 37 L.F. OF 12" RCP & 1.02%, STRM (15
strai (10	48° MH	8-2535	154.74	E = 151.98 W = 152.19	98 LF. OF 18" RGP @ 2.00%, STRN (1)
5TRM #11	48" MS	R-2535	164.30	E = 154.10 W = 154.10 K = 155.00	57 LF. OF 15" RCP & LOOK, STRM #2 13 LF. OF 12" PVC & LOOX, STRM #17
57KM //12	48° MS	8-2535	164.08	E = 154.87 W = 154.87	60 L.F. OF 15" ROP & 1.00%, \$TR01 #27
STRU #13	4 <b>8</b> ° MK	R2535	181.50	E = 153.58 N = 157.50 W = 153.58	10 LF, OF 12" FYC O 1.08%, STRAI (14 33 LF. OF 6" FYC O 1.00%, STRAI (29
STRV (14	ROOF	NA		S = 157.61	
STRN (715	48° MH	R-3067	154.00	λE = 149.32 W = 150.52	24 LF. OF 12 ROP & 2.00% STRU #18
STRM PIB	24"x36" C8	R-2535	155.07	E = 151.00	******
SIRM <b>/</b> 17	ROOF CONNECTION	NA		S = 155.13	
STRU JI 9	48' S.%문 보니	R~2535	135.70	SC = 151.45 W = 151.45 N = 155.65	67 LJ. OF 12" ROP & 1.00% STRON #20 8 LJ. OF 4" PVC & 9.97% STRU #28
STRM (20	27" 08	8-2535	155.18	E = 152.12	
5TRM /25	TANK CONNECTION	NA		S = 150.57	6 LF, OF 12" RCP 6 0.94%, STRM (72
51704 <b>(</b> 722	45° SUNP NH	R3067	134.23	N = 150,73	· · · · · · · · · · · · · · · · · · ·
STRM <b>f</b> 13	48° MH	R-1733	162.68	S 156.12 NE 158.12	27 L.F. OF 21" ROP @ 0.86%, STRM #24
51756 124	48° MH	R-1733	164.20	SN = 156.36 N = 156.36	78 L.F. OF 21" ROP & D.BAS, STRM JES
5174 <b>/1</b> 23	48 MH	R-1733	16187	5 + 157.05 N = 157.05	
STRM /26	PLAYCROUND DRAIN TILE CONNECTION	NA		5 - 184.42	
STRM <b>j</b> 77	4 <b>3</b> , MH	R-1733	164.18	E = 153.27 W = 153.27 N = 158.50	31 LF. OF 15" ROP & LCOX, STRN #13 58 LF. OF 4" PVC & 4.683, STRN #28
stroi <b>f</b> 28	GYM DRAIN TILE CONNECTION	NA		S - 159.20	
STRM (71)	6" 45" BEND	NA		E = 155.90 NW = 155.90	31 L.F. OF 6" PHO & 1.00%, STRM (00
strik (130	6" 45' BEND	NA		SE = 156.22 W = 156.22	13 L.F. OF 6" PVC # 1.00%, STRM (01
stra pai	6" 21,000 2,505 DRAN	NA	160.00	E = 155.34	
STRUE AND	12" (ES	NA		W # 149.00	

1 UTUTY PLAN (C301) 1-20

UTILITY NOTES: 1. DOORSKIE SERVICE DORRETER LOCATIONS AT THE BUILDING WITH THE VIEWWORK, CONTRACTOR PROR TO CONSTRUCTION, NO ADDITIONAL CONFERENCE INTO A REVIEW TO REALIZATE THE ANDOREDINGTE WITH, THE VIEWWORK, CONTRACTOR PROR TO CONSTRUCTION, NO ADDITIONAL CONFERENCE INTO A REVIEW TO REALIZATE THE ANDOREDINGTE WITH THE VIEWWORK, CONTRACTOR PROR TO CONSTRUCTION, NO ADDITIONAL CONFERENCE INTO A REVIEW TO REVIEW TO REVIEW.

COORDANCE UTLITY INSTALLATION WITH STRUCTURAL PROR TO START OF OCKSTRUCTOR, UTLITES SHALL NOT BE INSTALLED WITHAN THE ZONE OF MILLINGT OF ANY STRUCTURAL DISUDITY, NO ADDITIONAL COMPONENTION WILL BE PROVIDED FOR LADODROMOUTED BOTH. ALL SOMER SCRACE CONNECTIONS WITH LISS THEN S FIRT OF COVER OVER THE TOP OF FIRE SHALL BE INSULATED, INSULATION SHALL BE INSULATED FROM THE CONDUCTION OF THE SERVICE AT THE BUALDARY TO THE POST MARKIN THE SERVICE ATTAINS S FIRET OF COMER, COMPARIAND ASHALL GRAMM INSTITUD FORMASSION FROM ANOMETICS OR EXPOSULATE FROM TO INSULATION.

KATTIN PLANSEDIA MARTINET OR MARTINET OR MANNEN PROFILO IN INFLUENCIA DE INSULATION DE INSULATION. I. PROTET MA DE NATIO ESTRUCTURES AND FUTURES MORA MENA DE AUSTULIET DE DE REMANDA. 6. All Exame de Natione des Sande aux aux verse aux servanda de las feites and horizontal servando de 10 feet. Follow au Irania de National Mar off to Sande Mau, mar de National Standards of 1.5 feet and horizontal servandom de 10 feet. Follow au

PROADS THRUST BLOCKED ON ALL WATER WAN PER OTY OF SAME FULL PROADE VECHANICAL JOHT RESTRIATES ON ALL BENGS, VALVES, TEES, PLUSS AND INFORME LEVEN. SWITHER SERVER PERIO SWILL BE SOR 35 IND UNLESS NOTED OTHERWISE ALL SWITHER SERVER PER THAT EXTENDS TO THE BUILDING SWILL BE SOUTHER OF PERI

SUBJOLE OF THE ALL OF

12. ALL FORMORY OF THE STORY SERVER SYSTEM LECOND WHEN NOTICE IN A MATCH REALISED. IN A MARKAN CODE.



Curringham Group Architecture, Int. St. Actions Unit-XC11/tain St. SF S.Jm 325 Novemptia, VN SSU4 Tel. 812 373 3430 Fax: 612 373 4400 nen auritahan tan



No Date Description OB-30-19 DD OW-11/19 Watershed

SITE PLAN APPLICATION
9/13/19

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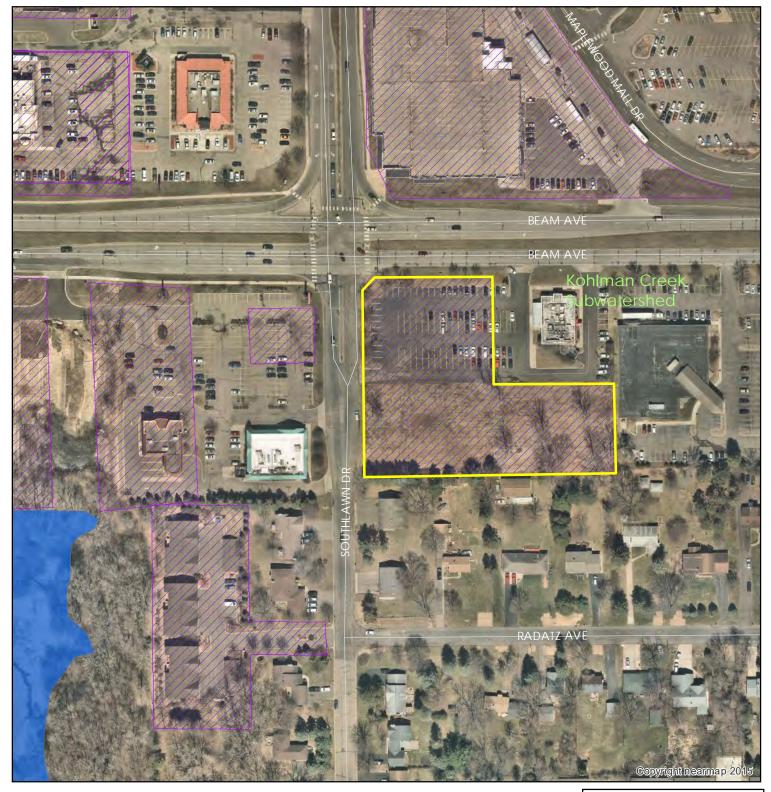
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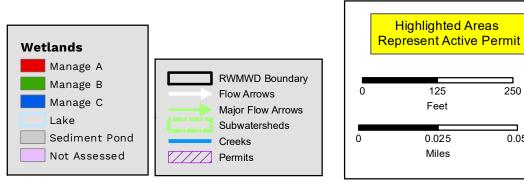
## Permit Application Coversheet

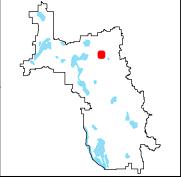
Date October 02, 2019				
Project Name CDI Medical Office Project Number 19-43				
Applicant Name Dan Regan, Launch Properties				
Type of Development Office				
Property Description This project is located at the southeast corner of Southlawn East in the City of Maplewood. The applicant is proposing to building with associated parking. The total project area is 2.59 requirements will be met with construction of a filtration bas due to poor soils. Pretreatment will include sumped inlets.	construct a medical office 5 acres. Stormwater treatment			
Watershed District Policies or Standards Involved:				
□ Wetlands	t Control			
🗹 Stormwater Management 🛛 Floodplain				
Water Quantity Considerations The proposed stormwater management plan is sufficient to h	andle 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 pr	ovisions.			
Attachments:				
Project Location Map				

✓ Project Grading Plan

## #19-43 CDI Medical Office







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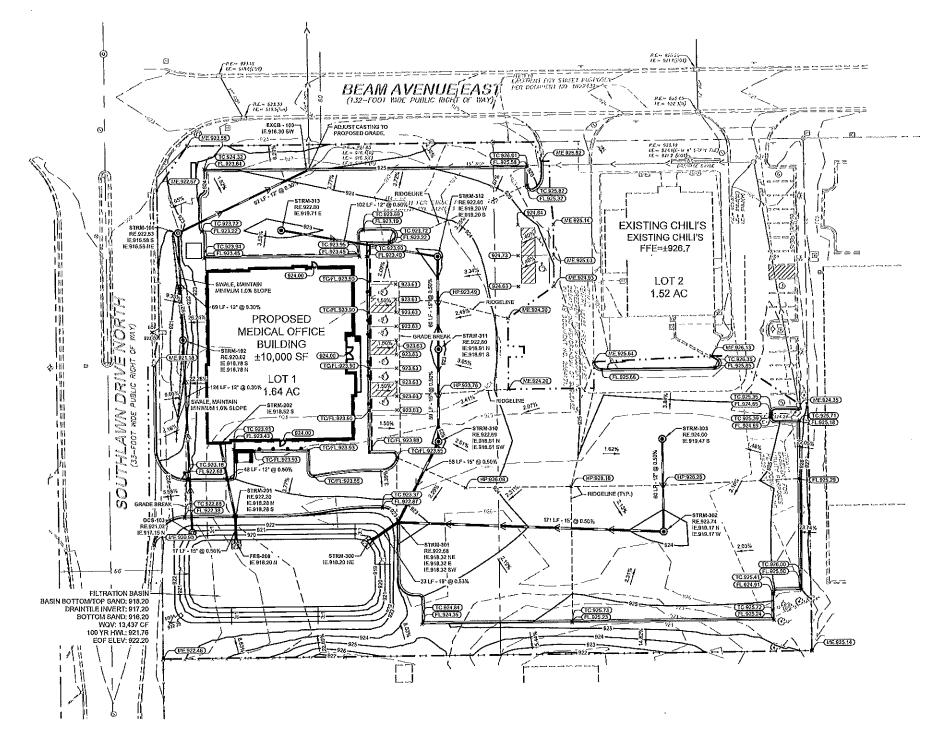
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19-43

### Special Provisions

1. The applicant shall submit an executed joint stormwater maintenance agreement with the City of Maplewood.



#### NOTE TO CONTRACTOR:

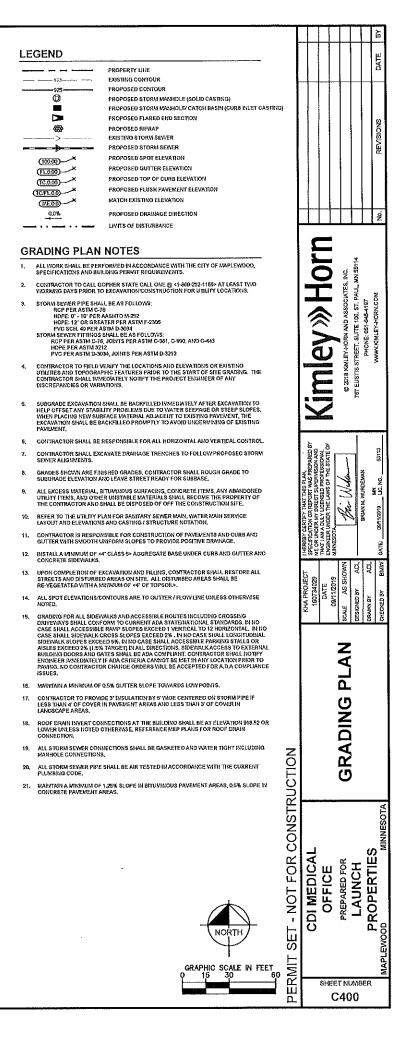
CONTRACTOR IS RESPONSIBLE FOR PHASING CONSTRUCTION TO MAINTAIN ACCESS AND OPERATIONS OF EXISTING CHILI'S RESTAURANT THROUGHOUT THE DURATION OF CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR COORDINATING CONSTRUCTION ACTIVITY WITH RESTAURANT MANAGEMENT.

#### STORMWATER MANAGEMENT NOTES

- I. GRADING OF THE FLITATION BASINS SHALL BE ACCOMPLISHED USING LOXHUPACT, DARTHAGUNG BCUIPMENT TO PREVENT CONFACTION OF THE UNDERLYING SOLLS. A BACKHOE WITH TOOTHED BUCKET SHALL BE USEP FOR EXCAVATION OF FLITATION BASINS TO PREVENT CONFACTION OR SUBJEMENT OF SOLLS. THE CONTRACTOR SHALL SCAREY THE UNDERLYING SOLLS TO A MINIMUM IN DEPTHY TO REMOVE COMPACTION. THE FIRST UFF OF ENGINEERED SOLLSHALL BE MIXED WITH THE UNDERLYING SOLLS. LEVELING AND FINAL GRADING WITHIN THE CELL MUST BE DOILE BY HAND.
- 2. FILTRATION BASINS EXCAVATION SHALL BE HELD I'ABOVE THE BOTTOM OF THE BASIN UNTIL THE CONTRIBUTING DRAINAGE AREAS WITH EXPOSED SONS HAVE BEEP FULLY STABLIED AND BITURINOUS BASE COURSE INSTALLED ON THE CONTRIBUTING AREAS.
- 3. DIVERT UPLAND DRAINAGE AREAS TO PREVENT RUNOFF FROM ENTERING THE EXCAVATED CELL OR INTO THE WORK AREA.
- CARE MUST BE TAKEN TO AVOID CONTAMINATION OF ENGINEERED SORS WITH SEOMENT, IN-SITU, OR TOPSOIL DURING AND AFTER INSTALLATION, MATERIALS MUST BE SEGREGATED.
- INSTALLATION WITH ORY SOIL CONDITIONS IS CRITICAL TO PREVENT SMEARING AND COMPACTION. SCHEDULE WORK FOR PERIODS OF ORY WEATHER.
- 6. DO NOT LEAVE FILTRATION AREAS AND/OR PERIMETER SLOPE EXPOSED OVERNIGHT. SECURE THE AREA FROM RISK OF PRECIPITATION DAVAGES AT THE END OF EVERY WORK AWY, IN THE EVENT OF RAIL, TAKE A CATON TO DIVERT STORMATER ANAY FROM WORK AREA AND TEMPORARILY COVER ALL EXPOSED SOILS YATH FILTER FARBLO R INPERIMENTES THEETING.
- 7. IN THE EVENT THAT THE SEDIMENT IS INTRODUCED INTO THE SAYP DURING OR IMMEDIATELY FOLLOWING EXCAVATION, REMOVE SEDIMENT PRIOR TO INITIATING THE NEXT STEP IN THE FILTRATION BASIS CONSTRUCTION PROCESS.

- 8. EXCAVATE SEDMENT BUILT UP OURING CONSTRUCTION AFTER STABILIZATION OF UPSTREAM AREAS AND BEFORE FLACEMENT OF HYDRAULIC SOIL STABILIZET YTTE SPECIAL
- STOCKPILING OF MATERIAL SHALL NOT BE ALLOWED IN PROPOSED FILTRATION BASINS.
- 10. NO CONSTRUCTION EQUIPMENT SNALL BE ALLOWED IN THE FILTRATION AREA BEFORE OR AFTER IT IS CONSTRUCTED, OAX SPECIFIED EQUIPMENT WILL BE ALLOWED INSIDE OF ORAGE CONSTRUCTION FENCE FOR THE SOLE PURPOSE OF CONSTRUCTION THE FILTRATION BASIN.
- 11, ALL FILTRATION BASIN CONSTRUCTION ACTIVITIES SHALL BE COMPLETED OURING DRY SOIL CONDITIONS.
- 12. ALL FILTRATION AREAS SHALL BE PROTECTED DURING CONSTRUCTION OPERATIONS
- 13. NOTIFY NICOLE SODERHOLM, RAMSEY-WASHINGTON METRO WATERSHE DISTRICT, AT 651-792-7976 AT LEAST 44 HOURS PRIOR TO THE CONSTRUCTION OF ANY VOLUME REDUCTION BMPS.

WC\_LDEV/launch properties/maplewood cdi3 Design/CAD/plansheets/C5-GRADING PLAN.dwg September 11, 2019 - 8:47am



### Permit Application Coversheet

Date October 02, 2019		
Project Name 5 Star Mobile Estate	es Soil Correction Project Number	19-44
pplicant Name Austin Blum, Frattalone Companies, Inc.		
Type of Development Grading		

### Property Description

This project is located at 5 Star Mobile Estates at 200 Mayfair Road in the City of Vadnais Heights. The applicant is proposing to remove contaminated soil around a delineated wetland area (#19-11 WCA). The contaminated soil will be removed offsite and replaced with clean soil prior to final restoration. The applicant is also proposing to remove an existing playground and basketball court from the floodplain. The total site area is 1.2 acres. No impervious area is proposed, so District Rule C does not apply. The applicant has submitted a survey and grading plan with cut/fill quantities to confirm there is no net loss of floodplain storage. Excavation must take place prior to placement of fill to ensure no adverse impacts to the floodplain throughout the duration of the project. The applicant has submitted a variance request for temporary disturbance in the wetland buffer. The buffer will be restored to preproject conditions. The applicant has applied for a DNR permit for construction dewatering. Due to soil and potential groundwater contamination, water will be pumped to the sanitary sewer.

Watershed District Policies or Standards Involved:

✓ Wetlands

1143

✓ Erosion and Sediment Control

□ Stormwater Management

### Water Quantity Considerations

The proposed grading plan is sufficient to prevent adverse impacts to the floodplain.

✓ Floodplain

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 the permit with the special provisions and variance request.

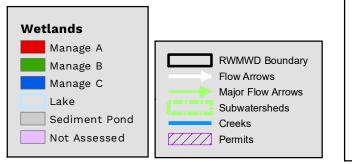
### Attachments:

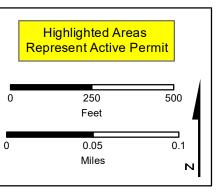
- Project Location Map
- ✓ Project Grading Plan

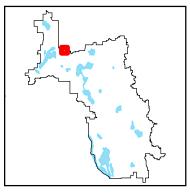


## #19-44 5 Star Mobile Estates Soil Correction

Note: Shaded area is outside RWMWD







19-44

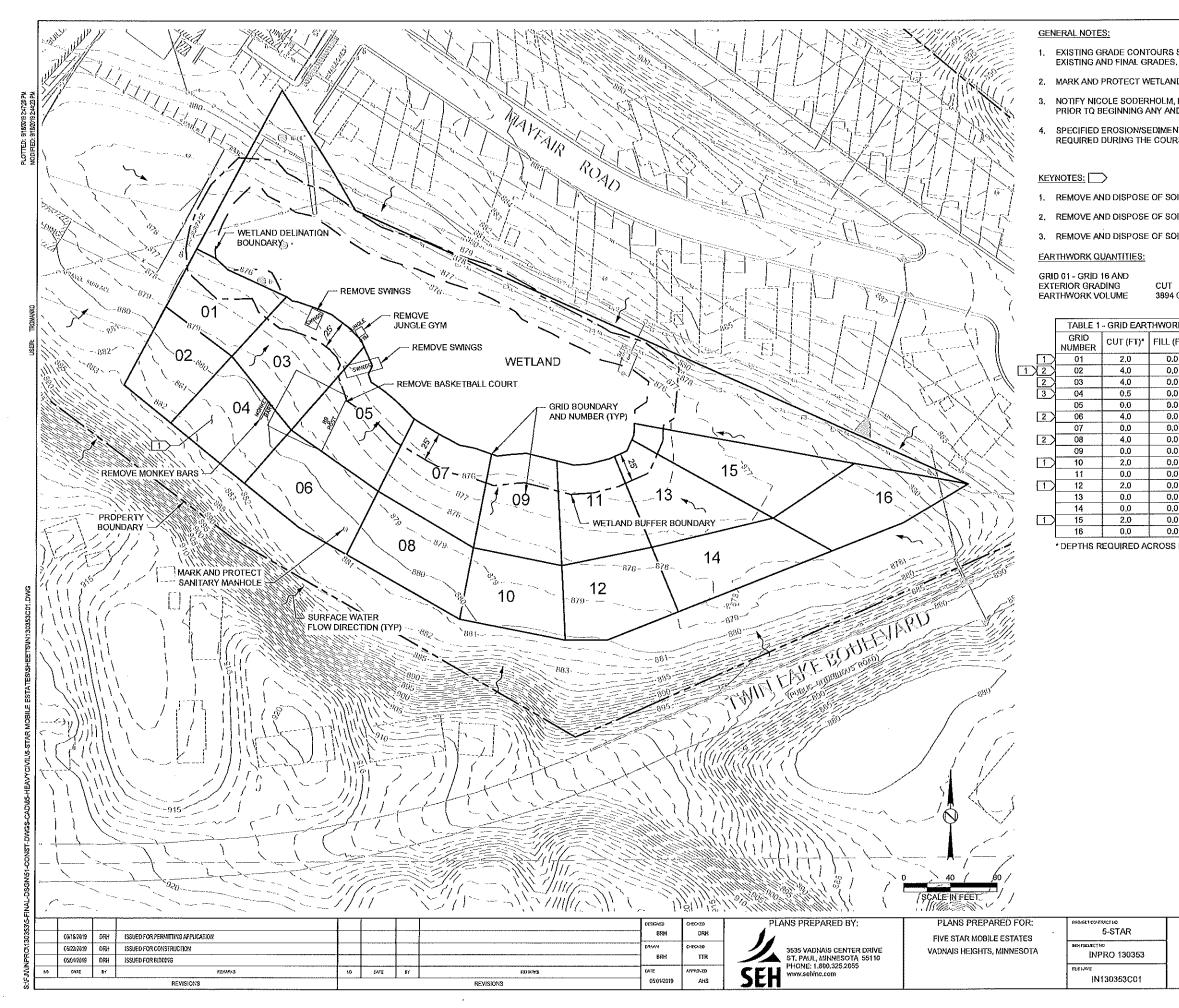
### Special Provisions

1. The applicant shall submit the escrow fee of \$2,400.

2. The applicant shall submit the final, signed set of construction plans including the Stormwater Pollution Prevention Plan (SWPPP).

3. The applicant shall submit contact information for the trained erosion control coordinator responsible for implementing the SWPPP.

4. The applicant shall submit a copy of the approved Minnesota Pollution Control Agency's NPDES Construction Permit coverage for the project.



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2. MARK AND PROTECT WETLAND, VEHICLES AND EQUIPMENT SHALL NOT CROSS WETLAND BOUNDARY.

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

SPECIFIED EROSION/SEDIMENT CONTROL PRACTICES ARE THE MINIMUM, ADDITIONAL PRACTICES MAY BE REQUIRED DURING THE COURSE OF CONSTRUCTION.

1. REMOVE AND DISPOSE OF SOIL IN THE 0' - 2' RANGE.

2, REMOVE AND DISPOSE OF SOIL IN THE 2' - 4' RANGE.

3. REMOVE AND DISPOSE OF SOIL IN THE 0' - 0.5' RANGE.

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3C01	FINAL GRADING PLAN	
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Excavating - Grading - Utilities - Demolition - Environmental - Field Services

September 20, 2019

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

Re: Five Star Mobile Estates RAP Project Narrative

Nicole,

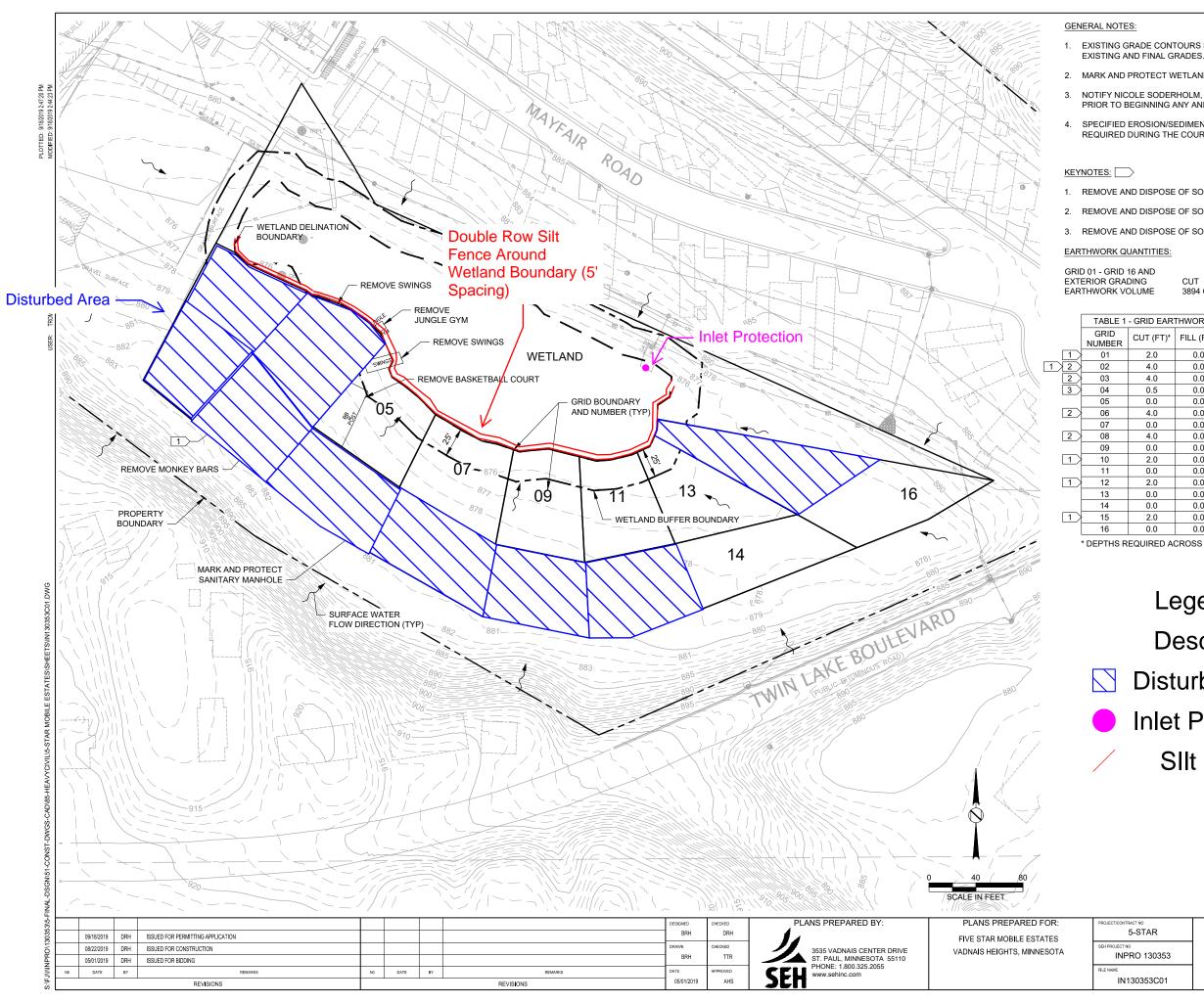
This letter will serve as a variance request for the Five Star Mobile Estates project located at 200 Mayfair Rd, St. Paul, MN 55127. The plans are calling for work within the wetland buffer as outlined on the plans. The reason for disturbance is to excavate the contaminated material and replace with clean fill for a future playground for the residents. The overall disturbance duration of a single grid would be minimal (at most half a work day), as we would be backfilling in the same operation that we are excavating. The project duration is estimated to be 2-4 weeks. After the project is substantially complete, we would then import a 6" topsoil layer and would stabilize the site per the NPDES permit requirements. Along with this letter, I will submit the project plans which show the buffer and the disturbance area.

Please contact me at (651) 484-0448 if you have questions or require more information.

Sincerely, *FRATTALONE COMPANIES, INC.* 

Uptin Blum

Austin Blum Project Manager 651-484-0448 austinb@frattaloneco.com



EXISTING GRADE CONTOURS SHOWN WERE GENERATED FROM MNTOPO DATA. CONTOURS REPRESENT

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REMOVE AND DISPOSE OF SOIL IN THE 2' - 4' RANGE

REMOVE AND DISPOSE OF SOIL IN THE 0' - 0.5' RANGE

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No elevation change. The site will balance; meaning whatever quantity is excavated is also being back filled to the existing elevations.

\* DEPTHS REQUIRED ACROSS FULL GRID AREA

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Legend Description **Disturbed Area Inlet Protection** SIIt Fence

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130353

FIVE STAR MOBILE ESTATES RESPONSE ACTION PLAN VADNAIS HEIGHTS, MINNESOTA

#### Permit Application Coversheet

Date	Octobe	er 02, 20	19		
Project	Name	Villages	on McKnight Clubhouse	Project Number	19-45
Applica	ant Nam	e Stev	e Law, Bigos Management		
Туре о	f Develo	pment	Residential		
•	ty Descr oject is		at the existing Villages on McKnigł	nt apartment complex in	the City of

St. Paul. The applicant is proposing to construct a new clubhouse and pool with associated utilities and landscaping. The total project area is 1.7 acres. Stormwater treatment requirements will be met with the construction of an infiltration basin. Pretreatment will include sumped inlets.

Watershed District Policies or Standards Involved:

U Wetlands

✓ Erosion and Sediment Control

Stormwater Management

Water Quantity Considerations

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

□ Floodplain

Water Quality Considerations

Short Term

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

#### Long Term

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

Staff Recommendation

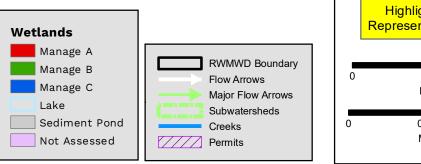
Staff recommends approval of the permit with the special provisions.

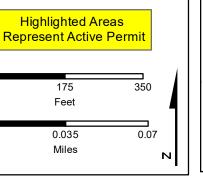
Attachments:

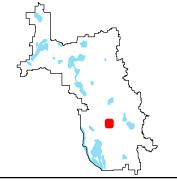
- ✓ Project Location Map
- ✓ Project Grading Plan

### #19-45 Villages on McKnight Clubhouse









19-45

#### Special Provisions

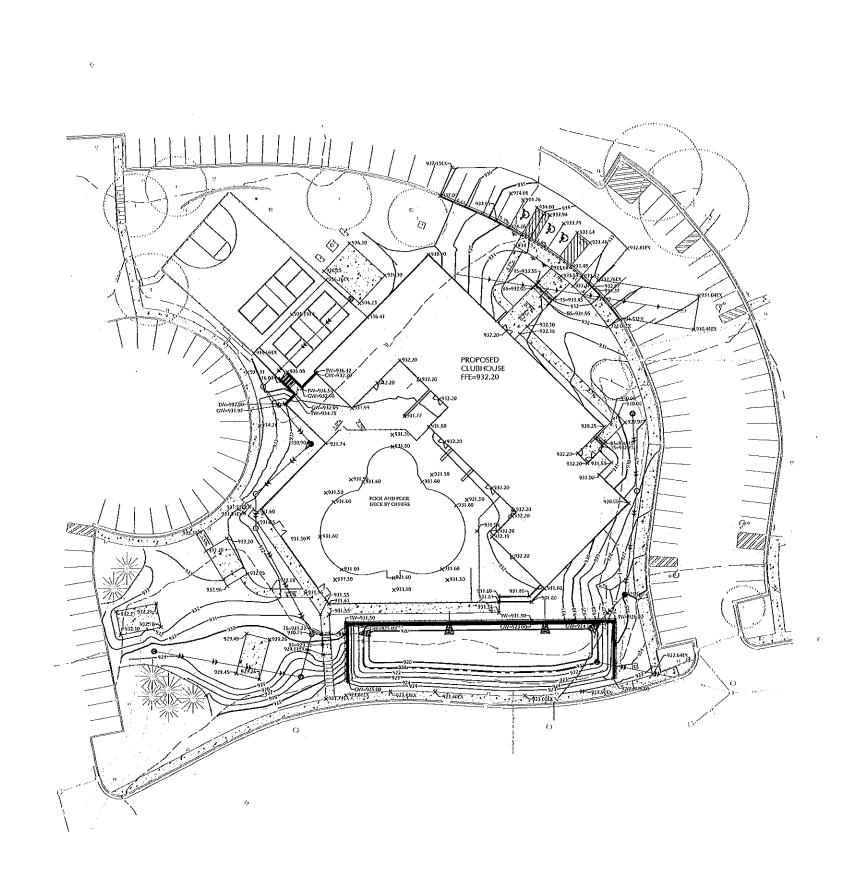
1. The applicant shall submit the final, signed set of construction plans.

2. The applicant shall submit an executed stormwater maintenance agreement.

3. The applicant shall submit a draft, site-specific Best Management Practice (BMP) Operations & Maintenance Plan.

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 a copy of the approved Minnesota Pollution Control Agency's NPDES Construction Permit coverage for the project.





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9. SEE SWPEP FOR ADDITIONAL TROSION CONTROL NOTES AND REQUIREMENTS.

10. SEE UTILITY FLARS FOR WALLR, STORM AND SANIFARY SEWER INFORMATION.

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	SHEET INDEX
C1-1	EXISTING CONDITIONS
C1-2	DEMOLITION PLAN
C2-1	SITE PLAN
C3-1	GRADING & DRARGE PLAN
C3-2	5\\PPP
¢3-1	SWAPPA VIOLES
C4-1	UTI_ITY FLAN
C8-1	CIVIL DETAILS
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#### MEMORANDUM

**Date:** October 2, 2019

To: Board of Managers and Staff

**From:** Nicole Soderholm, Permit Coordinator

**Subject:** September Enforcement Action Report

During September 2019:

Number of Violations:	19
Install/Maintain Inlet Protection	3
Install/Maintain Perimeter Control	5
Install/Maintain Construction Entrance	1
Sweep Streets	2
Stabilize Exposed Soils	1
Contain/Dispose of Liquid and Solid Waste	2
Remove Discharged Sediment	2
Implement Proper Dewatering	1
Maintain Temporary Sediment Basin	1
Maintain Proper Records	1

#### Activities:

Permitting assistance to private developers and public entities, permit review with Barr Engineering, miscellaneous inquiries, ongoing ESC site inspections and reporting, WCA administration/procedures, BWSR BSA 7 stakeholder meeting, pre-application planning meetings, permit BMP maintenance inspections, permit close-out inspections, enforcement, Construction Site Management recertification training, 35/36/CR B flood coordination meeting, preconstruction meetings

#### **Project Updates:**

Permit #14-20 Roseville Garden Station

City and watershed staff continue efforts to get the contractor and developer to repair and complete the constructed infiltration areas. The city also has a detailed punchlist of

additional items before permits can be closed. The city has extended the deadline to October 11<sup>th</sup> for the work to be completed. If this final deadline is not met, the city will look to complete the work and pull from the project escrow. The city may request cooperation from RWMWD on this item as the District also has a stormwater escrow that is being withheld until final completion. It has been difficult working with this contractor and developer, and residents have been frustrated with the slow progress.

#### Permit #19-24 Woodbury Middle School

Work is substantially complete at Woodbury Middle School. The contractor has installed a porous paver system in the parking lot with filtration storage underneath to meet stormwater treatment requirements. Staff completed a final inspection of the site on Sep 23<sup>rd</sup> and confirmed the site meets permit closure requirements. A final close-out checklist was sent to the applicant on Sep 25<sup>th</sup>. Items requested include as-built plans, final BMP O&M plan, and contact information for the person(s) responsible for BMP maintenance.

#### Permit #18-18 I-694 & Rice Street Interchange

Work continues at the 694/Rice Street Interchange. This month the new bridge was completed, and restoration is occurring on portions near the bridge west of Rice. Permanent restoration has taken place on the southwest off-ramp to Rice. In addition, the filtration basin in the northwest section is being excavated. Infiltrometer tests were completed at the bottom elevation of the basin on Sep 26<sup>th</sup>. District staff observed a portion of the test and completed an erosion control inspection with Ramsey County. Staff observed deficient inlet protection and construction entrances. Other items noted relating to perimeter control and street sweeping were considered routine maintenance items.

#### Permit #19-27 Shoreview Commons

Work continues on the Shoreview Commons project at the community center. Staff inspected the site on Sep 11<sup>th</sup> and Sep 24<sup>th</sup>. Routine items were noted including perimeter control around stockpiles and temporary soil stabilization where feasible.

#### Permit #19-31 3108 W Owasso Blvd, Roseville

Staff completed a final inspection of the shoreline project at 3108 W Owasso Blvd. The applicant applied for a permit to grade within the floodplain in order to replace an old timber sea wall that was failing with riprap. At the direction of the board, staff reached out to the homeowner to inform them of the District's native shoreline restoration grant and upland native planting opportunities. To date, a cost-share grant has not been applied for.

#### Permits Closed in September 2019:

- 18-14 365 S Owasso Blvd, Roseville
- 19-13 FHR Storage Facility, St. Paul



#### MEMORANDUM

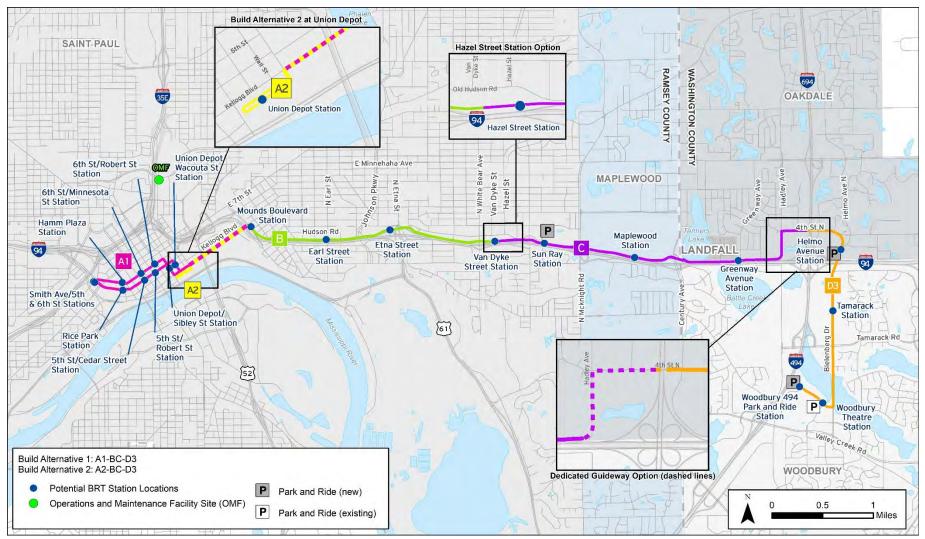
Date:	October 2, 2019
То:	RWMWD Board of Managers
From:	Nicole Soderholm, Permit Coordinator
Subject:	Metro Transit Gold Line BRT project introduction

Metro Transit is in the design and permitting stage for the proposed Gold Line Bus Rapid Transit (BRT). Tonight with their consultants, Metro Transit would like to give the Board of Managers an introduction to the project including an overview of the proposed urban transportation corridor and summary of coordination and planning leading up to this point.

Water resource management will be an important element of the project including stormwater treatment, floodplain mitigation, wetland mitigation, and erosion and sediment control. Following the presentation, Metro Transit will welcome any comments the Board may have on the design to date.

A Wetland Conservation Act (WCA) joint application and RWMWD grading permit application will be submitted formally for board approval at a later time.

**Environmental Assessment** CHAPTER 2. ALTERNATIVES



#### FIGURE 2.2-1: PROJECT BUILD ALTERNATIVES EVALUATED IN THE ENVIRONMENTAL ASSESSMENT





### Memorandum

TO:	Board of Managers Ramsey-Washington Metro Watershed District 2665 Noel Drive Little Canada, MN 55117
FROM:	Joey Diederichs Civil Site Group
DATE:	September 25, 2019
RE:	Suite Living Woodbury – Informal Discussion after Board Meeting

Dear Board of Managers,

Below is a narrative and brief sequencing that has occurred in relation to the mitigation of the existing wetland on site at 1901 Century Avenue in Woodbury. Please review and let me know if there is any additional information you would want provided by me at this point.

Joey Diederichs Civil Site Group jdiederichs@civilsitegroup.com 612-719-1781

#### Narrative:

This wetland was first visited & discovered in the field during wetter than normal conditions, June/July 2019, is of low-quality, and is right in the center of the site. Due to site stormwater requirements, the proposed site would have greater storage volume and water quality benefit than the existing conditions.

#### **Project Purpose:**

This project is proposing to build a 32-unit senior living facility for the aging population of the Twin Cities Metro area. City of Woodbury staff, Planning Commission and City Council along with neighboring property owners are in favor of the proposed project. The intent of the City of Woodbury is to have an urban residency project in this location.

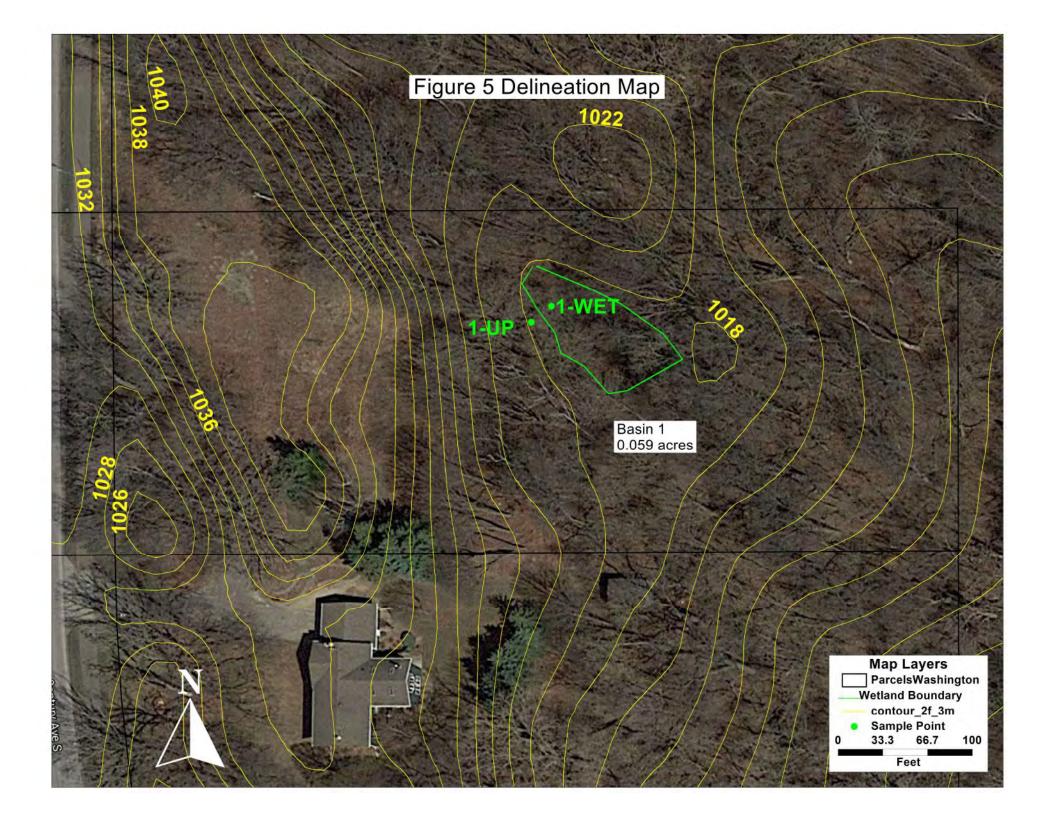
#### Avoidance/Minimization:

The existing wetland is in the middle of the site and under 2,500sf. Avoiding this location is not feasible with a project other than a single-family home, which is a major underutilization of the urban residency zoned property. If any part of the wetland is filled, the entirety of the wetland would be filled.

#### Alternatives we are proposing:

We a proposing:

- A) Mitigate off-site at a ratio of 2.5:1 within Washington County (Rule E:2:iv)
  - a. Mississippi Metro WMO
  - b. Middle St. Croix WMO



## Minnesota State Climatology Office

State Climatology Office - DNR Division of Ecological and Water Resources University of Minnesota

home current conditions journal past data summaries agriculture other sites about us

### **Precipitation Worksheet Using Gridded Database**

#### Precipitation data for target wetland location:

county: Washingtontownship number: 28Ntownship name: unnamedrange number: 21Wnearest community: Woodburysection number: 7

#### Aerial photograph or site visit date: Thursday, June 13, 2019

#### Score using 1981-2010 normal period

values are in inches A 'R' following a monthly total indicates a provisional value derived from radar-based estimates.	first prior month: May 2019	second prior month: April 2019	third prior month: March 2019
estimated precipitation total for this location:	6.65	4.25R	2.07R
there is a 30% chance this location will have less than:	3.07	2.39	1.38
there is a 30% chance this location will have more than:	4.23	3.49	2.29
type of month: dry normal wet	wet	wet	normal
monthly score	3 * <mark>3</mark> = 9	2 * <mark>3</mark> = 6	1 * 2 = 2
multi-month score:           6 to 9 (dry)         10 to 14 (normal)         15 to 18 (wet)		17 (wet)	

#### Other Resources:

- retrieve daily precipitation data
- view radar-based precipitation estimates
- view weekly precipitation maps
- Evaluating Antecedent Precipitation Conditions (BWSR)

## Appendix C



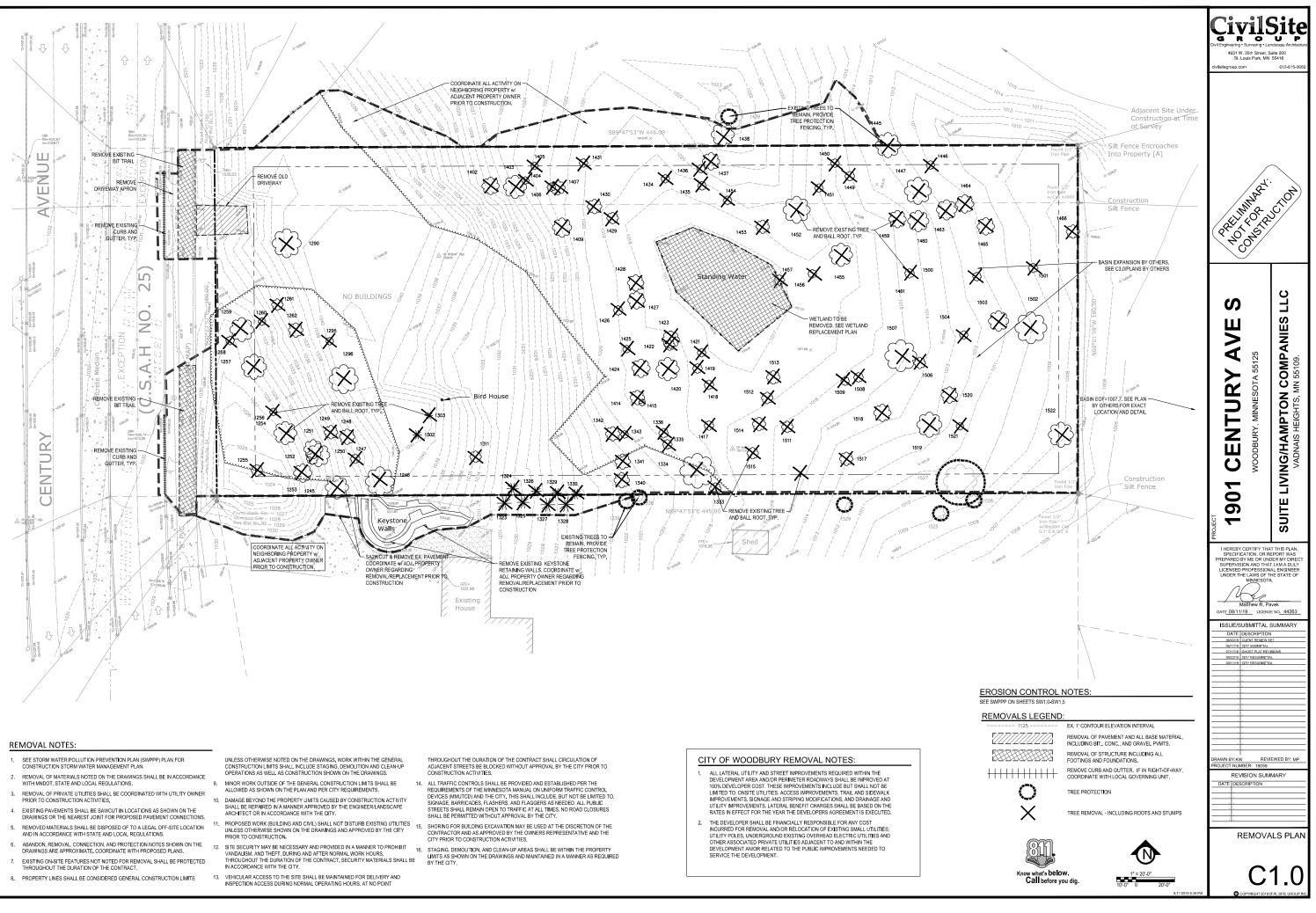
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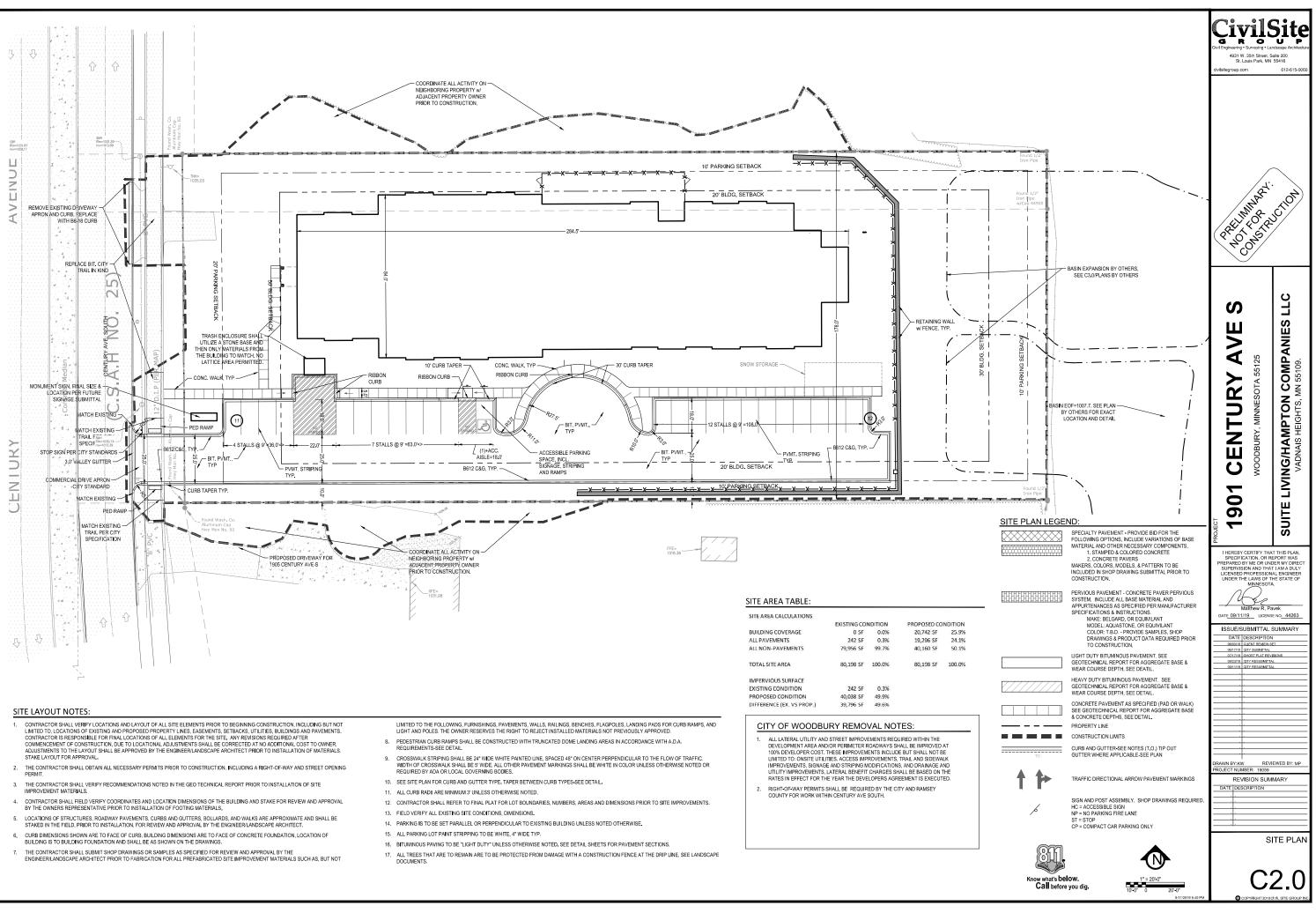


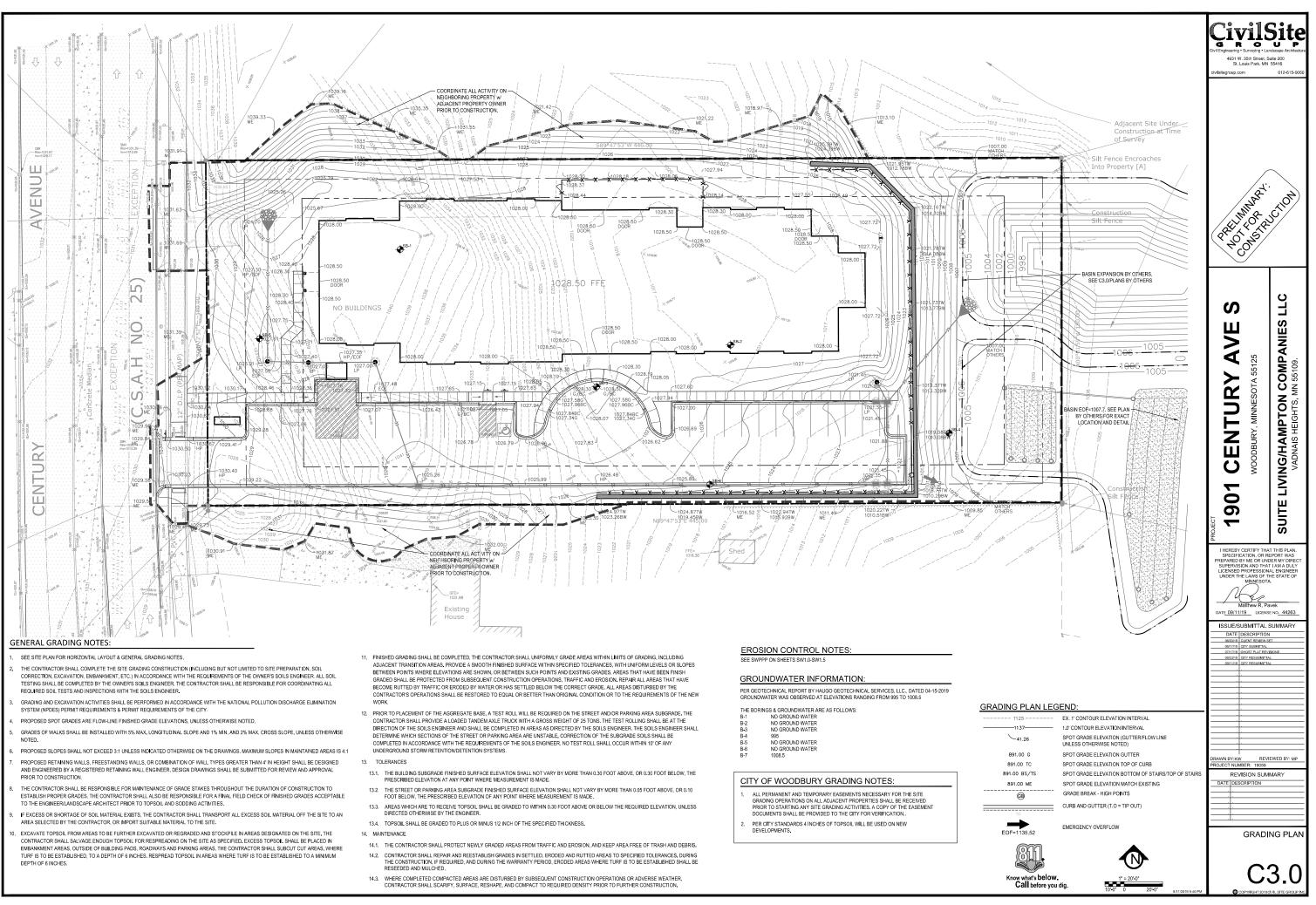
1-WET



1-Representative







## \*\*\*\*

# Stewardship Grant Program

\*\*\*\*

#### Stewardship Grant Application Summary

**Project Name:** <u>Cedars Lakeside Apartments</u>

Application Number <u>19-25 CS</u>

Board Meeting Date: <u>10/2/2019</u>

Applicant Name: <u>Bonnie Kjos</u>

Commercial/Government 🛛 🗹

#### **Project Overview:**

Residential

This project is located behind the Cedars Lakeside Apartment building on Round Lake in Little Canada. The applicant has cleared the grounds of buckthorn and other invasive plants. They would like to revegetate the shoreline with native plants to help prevent erosion. This work is eligible for 100% coverage up to \$100,000. They are also proposing to install a native fescue along a new trail and on the slopes behind the building. This portion will be considered a native habitat restoration and is eligible for 50% coverage up to \$15,000.

#### BMP type(s):

Shoreline Restoration(1)

#### **Grant Request:**

\$40,000.00

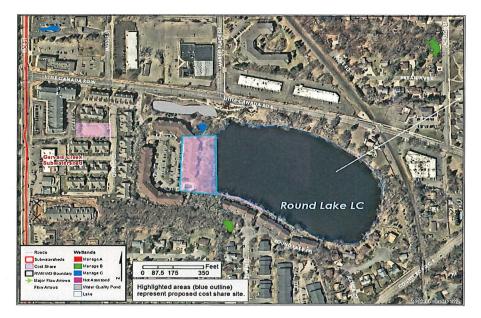
#### **Recommendation:**

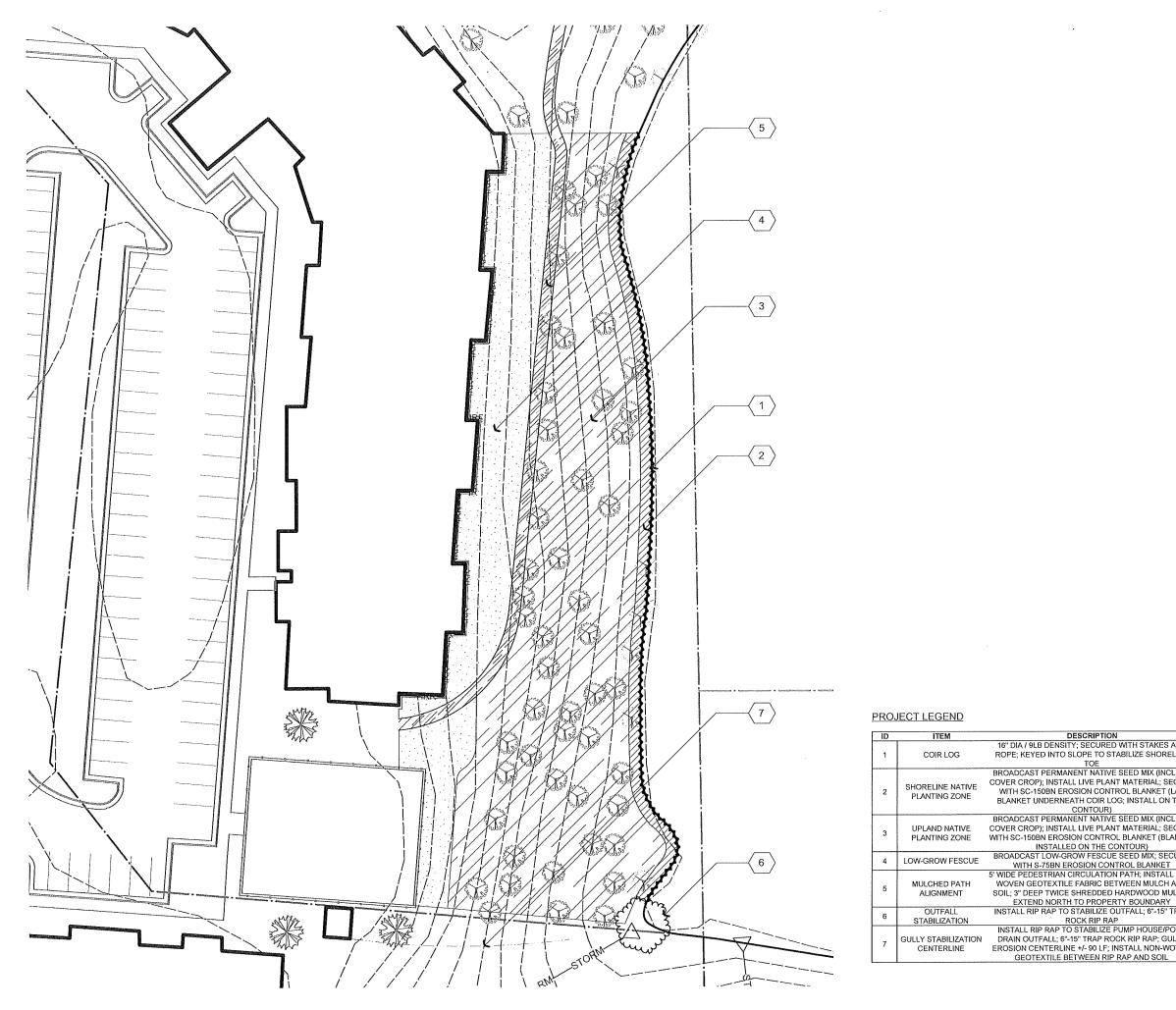
Staff recommends approval of this application.

#### Subwatershed:

Gervais Creek

#### **Location Maps:**





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	LLS, MN 55112 266-7274
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#### **Stewardship Grant Application Summary**

Project Name: <u>Harding Arena</u>

Application Nu

Application Number <u>19-26 CS</u>

Board Meeting Date: 10/2/2019

Applicant Name: <u>Be Vang</u>

Commercial/Government

#### **Project Overview:**

Residential

This project is located at the Harding Ice Arena at Harding High School in St. Paul. This project would convert almost 1/4 acre of turf grass into native short grass prairie to provide pollinator habitat and an outdoor educational experience for students. The applicant is receiving match dollars from Ramsey County Parks and Recreation to complete this project. The planting will be a combination of native seeds and plugs.

#### BMP type(s):

Native Habitat Restoration(1)

#### **Grant Request:**

\$5,500.00

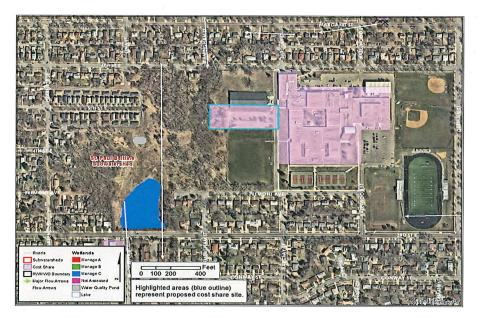
#### **Recommendation:**

Staff recommends approval of this application.

#### Subwatershed:

St. Paul Beltline

#### **Location Maps:**

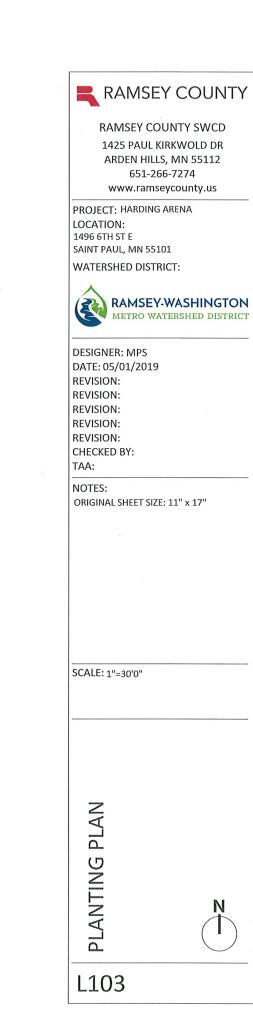


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908' P1 P1 P1 P1 P1 P1 P1 P1 P1 P1 P1 P1 P1	
	PARKING LOT
P1 PLANTING SCHEDULE       SCIENTIFIC NAME       SIZE         36       PRAIRIE ONION       ALLIUM STELLATUM       2" PLUG         36       BUTTERFLY MILKWEED       ASCLEPIAS TUBEROSA       2" PLUG         36       WHITE PRAIRIE CLOVER       DALEA CANDIDA       2" PLUG         36       PURPLE PRAIRIE CLOVER       DALEA PURPUREUM       2" PLUG         36       NARROW-LEAVED CONEFLOWER       ECHINACEA ANGUSTIFOLIA       2" PLUG	
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P1 SEEDING SCHEDUL	E			
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COMMON NAME	SCIENTIFIC NAME	% OF MIX	SEEDS/SQ-FT	TOTAL
SIDEOATS GRAMA	BOUTELOUA CURTIPENDULA	36.00%	7.90	0.72 PLS LB
BLUE GRAMA	BOUTELOUA GRACILIS	15.00%	22.00	0.30 PLS LB
PRAIRIE BROME	BROMUS KALMII	5.00%	1.40	0.10 PLS LB
JUNE GRASS	KOELERIA CRISTATA	3.00%	22.00	0.06 PLS LB
LITTLE BLUESTEM	SCHIZACHYRIUM SCOPARIUM	36.00%	19.80	0.72 PLS LB
PRAIRIE DROPSEED	SPOROBOLUS HETEROLEPIS	5.00%	2.90	0.10 PLS LB

QTY	COMMON NAME	SCIENTIFIC NAME	SIZE
65	SIDEOATS GRAMA	BOUTELOUA CURTIPENDULA	4" POT
65	PRAIRIE DROPSEED	SPOROBOLUS HETEROLEPIS	4" POT
130	TOTAL		

\*NOTES: CONTRACTOR TO INSTALL PERENNIAL PLANTS 24" ON CENTER IN RANDOM GROUPS (18-36 PER GROUP); SAME SPECIES PER GROUP



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### Stewardship Grant Program Budget Status Update October 2, 2019

Homeowner	Coverage	Number of Projects	Funds Allocated
Habitat Restoration and rain garden w/o hard surface drainage	50% Cost Share \$15,000 Max	6	\$9,564.65
Rain garden w/hard surface drainage, pervious pavement, green roof	75% Cost Share \$15,000 Max	6	\$54,926.25
Master Water Steward Project	100% Cost Share \$15,000 Max	1	\$7,500
Shoreland Restoration	100% Cost Share \$15,000 Max	1	\$12,000

Commercial, School, Government, Church, Associations, etc.	Coverage	Number of Projects	Funds Allocated
Habitat Restoration	50% Cost Share \$15,000 Max	4	\$20,400
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	3	\$341,000
Non-Priority Area Projects	75% Cost Share \$50,000 Max	0	\$0
Public Art	50% Cost Share	1	\$6,000
Aquatic Veg Harvest/LVMP Development	50% Cost Share \$15,000 Max	2	\$15,000
Maintenance	50% Cost Share \$5,000 Max for 5 Years	23	\$19,200
Consultant Fees			\$237,400
Total Allocated			\$922,990.90

2019 Stewardship Grant Program Budget	
Budget	\$1,250,000
Total Funds Allocated	\$922,990.90
Total Available Funds	\$327,009.10

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# Action Items

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## **Request for Board Action**

Board Meeting Date:	October 2, 2019	Agenda Item No.: <u>9A</u>
Preparer:	Tina Carstens, Administrator	
Item Description:	Watershed Excellence Awards Approval	

#### Background:

Annually, the District seeks out nominations for the Watershed Excellence Awards. This year's awards will be held on Thursday, November 14, at Keller Golf Course Clubhouse.

Nominations were received by staff and then were reviewed by the awards subcommittee of the citizen advisory committee (CAC). The subcommittee asked the CAC to accept the awardees at their September 24th meeting and to make a recommendation to the RWMWD Board of Managers to approve the nominees as this year's award winners.

The suggested award winners will be given at the October Board meeting for discussion and approval.

#### Applicable District Goal and Action Item:

**Goal:** Inform and empower communities – The District will inform and empower communities to become partners in improving and protecting the watershed through their own efforts.

**Action Items:** Hold events to celebrate community connections and participation, showcase partner accomplishments, and educate youth, families, and residents about clean water.

#### **Staff Recommendation:**

Staff recommends approval of the proposed Watershed Excellence Award winners.

#### **Financial Implications:**

The Watershed Excellence Awards event is included in this year's budget under education events. There are funds available for this event.

#### **Board Action Requested:**

Recommend and approve the proposed Watershed Excellence Award winners.

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# Administrator's Report

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#### MEMO

TO:	Board of Managers and Staff
FROM:	Tina Carstens, Administrator
SUBJECT:	October Administrator's Report
DATE:	September 27, 2019

#### A. Meetings Attended

Tuesday, September 10	10:00 AM	Conference call with Mae Davenport
Wednesday, September 11	2:00 PM	Meet re: 2020 audit
Thursday, September 12	ALL DAY	MAWD Governance 101
	6:30 PM	Board Meeting
Friday, September 13	ALL DAY	MAWD Governance 101
Monday, September 16	9:30 AM	MCES Battle Creek call
	1:00 PM	Snail Lake Beach Discussion
	6:00 PM	Board Brainstorming Special Meeting
Tuesday, September 17	9:00 AM	MPCA Stormwater Manual Meeting
Monday, September 23	8:00 AM	MWMO Interview Panel
Tuesday, September 24	1:30 PM	Gold Line BRT call
Wednesday, September 25	8:00 AM	MWMO Interview Panel
	2:30 PM	Meet with Managers Swope and Ward
Thursday, September 26	8:00 AM	MWMO Interview Panel
Friday, September 27	8:00 AM	MWMO Interview Panel
	11:30 AM	Metro Inet Meeting

#### B. Upcoming Meetings and Dates

November Board Meeting Watershed Excellence Awards MAWD Annual Meeting December Board Meeting Wednesday, November 6, 2019 Thursday, November 14, 2019 December 5 – 7, 2019 Wednesday, December 11, 20019

#### C. MAWD Annual Meeting and Resolution Process

Information on the MAWD annual meeting including the registration information is now posted on the MAWD website here: <u>https://www.mnwatershed.org/annual-conference-trade-show</u>. Please let me know by the end of October if you are interested in attending this year's meeting.

At the meeting next week, I will bring a draft resolution for discussion as directed by the Board at the last meeting. The resolution will focus on requesting that MAWD prioritize legislatively, state assistance for urban flood control projects. I am talking with the MAWD executive director as well as other metro watersheds for input on this proposed MAWD resolution.

#### B. Special Work Session Meeting Regarding Beltline Resiliency Study

At the last meeting, the Board requested that we schedule a special meeting to allow more time for questions and discussion on this study. I will send the Board a doodle poll to help schedule this meeting, probably in the last half of November or early December.

#### C. CAC Meeting Summary – Carrie Magnuson

The Citizen Advisory Commission met on September 24, 2019. The group included staff liaison Carrie Magnuson, and Board liaison, Cliff Aichinger. The following initiatives were discussed and further developed:

 Watershed Excellence Awards – Selection of awardees and program planning: The CAC reviewed eight nominations and selected six awardees for the Board to review. Following Board approval of candidates, a formal letter will go out to each individual.

The group also discussed the logistics of the Recognition Dinner including award presenters, commissioning the physical award, and managing time effectively during the event.

- 2. Ames Lake Sculpture Project & Partnership Fostering public art and student artists of color: CAC member, Randee Edmundson updated the group on the work she is doing with two youth (a senior and a freshman) who are part of The Boys and Girls Club Youth Leadership Keystone Program. The two sculpture forms have been built. The foundry is planning for fall/winter to pour. Installation in the Ames Lake area is slated for spring 2020. This project is partially funded by RWMWDs Stewardship Grant Program.
- 3. Planting event with CAC and the LEAP teams: The CAC and LEAP teams came together on September 5th to plant approximately 800 plants at the Snail Lake Wetland on terrain that was decidedly too difficult for student groups to manage.

The CAC also reviewed major projects being done by RWMWD staff and partners.

Future meetings: October 22<sup>nd</sup>, December 10<sup>th</sup>.

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# Project and Program Status Reports

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#### **Project Work Plan**

Original Date: September 11, 2019

Updated: September 11, 2019

Project: Hillcrest Golf Course Evaluation of Existing Conditions

#### Project team

District staff:	Project manager:	Paige Ahlborg
Barr staff:	Principal in charge:	Erin Anderson Wenz
	Project manager:	Erin Anderson Wenz
	Project team:	Karen Wold, Josh Vosjepka, Michael McKinney, Tyler Olsen, Erin
		Feehily, Evan Christianson, Brandon Barnes, Fred Rozumalski

Project #: 23621200.19 003

#### Scope of work

The former Hillcrest Golf Course site (now owned by the St. Paul Port Authority) is slated for redevelopment. Beginning late 2019 and extending through 2021, the City of St. Paul's (City's) Department of Planning and Economic Development is leading a public planning process to guide the site's development.

According to the City's webpage for the Hillcrest Golf Course Master Plan...

The Hillcrest Master 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.

The Department of Planning and Economic Development (PED) will lead the master plan process, in collaboration with community members, consultants, and the Port Authority. Community engagement throughout the process will outline how to build opportunity and community wealth on the redeveloped Hillcrest site – bringing more housing, jobs and public amenities.

Presently, industrial and single-family housing are the most likely ultimate land uses for the site. Other likely features include community gathering spaces, screening for nearby homeowners, trails and open space. Graphics and deliverables will be a big part of the planning process deliverable, as the City has found them to be highly useful in similar past projects.

RWMWD will play an important role in supporting the City's planning process. Specifically, in 2019, RWMWD and Barr will provide a memo and figures identifying and describing the existing land, water and stormwater conditions throughout the study area.

RWMWD's contribution will include the following tasks:

#### Task 1: Site visit by project team (all)

The Barr team will perform a site walk through with District staff.

## Task 2: Characterization of existing stormwater flows (Michael McKinney/Tyler Olsen/Josh Vosjepka)

Through previous modeling efforts performed for RWMWD, we know that the site drains in two directions: towards Beaver Lake and towards the Beltline Storm Sewer Interceptor. Essentially, this task will provide information and greater detail on where stormwater travels through and away from the site. Barr staff will characterize existing stormwater flows, including drainage divides (higher resolution than currently delineated), inter-community flows and key pathways, capacity constraints and locations with excess capacity. In some cases, this task may involve subdividing parts of the drainage areas to better reflect existing conditions for the site. Models, reports and as-built drawings will be leveraged as needed to describe the capacity of RWMWD storm sewer infrastructure downstream of the site as well as surrounding municipal/county storm sewer systems. The RWMWD's existing stormwater and water quality models for the area will be leveraged for this task. This does not include detailed modeling of the City's or Ramsey County's infrastructure as this modeling will be performed by the City's selected consultant during the master planning process.

#### Task 3: Wetland and natural resources inventory (Karen Wold)

This task involves characterizing wetland locations and classifications throughout the site (not delineations) including restoration (both wetland and upland) opportunities across the site. In addition, this task includes evaluation of the current quality of landscape habitat and potential endangered species on the site and adjacent areas, including a description of pre-golf course conditions, leveraging historical photos.

#### Task 4: Ecological Context Assessment and Tree inventory (Fred Rozumalski)

This task involves examining the larger ecological context of the site in relation to the Mississippi River corridor and other local natural areas. As assessment of ecological significance of the site will involve the examination of on-site features via GIS such as soils, topography, hydrology and native plant communities, along with an examination of how this site could possibly contribute to improve greater ecological systems. This task also involves creating an inventory of significant tree stands throughout the site, as well as other native plant communities. The site is not currently within a tree preservation overlay. This task does not include a full tree survey.

#### Task 5: Groundwater inventory (Evan Christianson)

This task involves generally characterizing the site's groundwater features including well locations, both sealed and unsealed.

## Task 6: Suggested sizing and placement of on-site stormwater treatment facilities (Michael McKinney, Tyler Olsen, Erin Feehily)

This task involves some preliminary sizing and placement of on-site stormwater treatment facilities, and provision of precedent examples and graphics. The City has cited the Green Line (light rail) strategic stormwater deliverables and the early Allianz Soccer Field site concept plans as examples. Future land use concepts are not expected until May, 2020, so these preliminary examples will use the St. Paul Port Authority's draft plan as a starting point. This task does not include any conceptual design. The deliverable will be a GIS map that shows approximate sizing and location of potential stormwater facilities.

#### Task 7: Discussion of relevant regulatory processes during redevelopment (Brandon Barnes)

For this task, Barr staff will write a summary of relevant regulatory/permitting considerations that the City/Port Authority should expect in redeveloping this site.

#### Task 8. Compile summary memo

This task involves compiling all of the information gathered and created in Tasks 1 through 7 into a summary memo that the City and RWMWD can use during the planning process.

#### Task 9. Scope next phase of RWMWD support for the project. (Erin Anderson Wenz and District staff)

We expect that the RWMWD's involvement will extend into 2020, once the planning process has officially begun. Barr and District staff will evaluate additional scope in early 2020 at the conclusion of this scope.

#### Budget, Schedule, and Milestone Tracking

The budget approved in 2019 for this work is \$25,000, though this budget was approved before the scope was known. Staff will be in close communication with District staff as it appears that more budget will likely be needed for the work.

Work Task	Description	Estimated Amount	Anticipated Completion	Actual Completion
Task 1	Site visit by project team	\$3,000	September, 2019	
Task 2	Characterization of existing stormwater flows	\$10,000	October, 2019	
Task 3	Wetland and natural resources inventory	\$8,000	October, 2019	
Task 4	Tree inventory	\$5,000	October, 2019	
Task 5	Groundwater Inventory	\$3,000	November 2019	
Task 6	Suggested sizing and placement of on-site stormwater treatment facilities	\$10,000	December, 2019	
Task 7	Discussion of relevant regulatory processes	\$2,000	December, 2019	
Task 8	Compile summary memo	\$5,000	December 20, 2019	
Task 9	Scope next phase of RWMWD support for the project.	\$1,000	January, 2020	
TOTAL		\$47,000	January, 2020	



resourceful. naturally. engineering and environmental consultants



#### Memorandum

То:	Board of Managers and Staff
From:	Tina Carstens and Brad Lindaman
Subject:	Project and Program Status Report – October 2019
Date:	October 2, 2019

## Twin Lake emergency response management 2019: (Barr project managers: Brad Lindaman and Erin Anderson Wenz; RWMWD project manager: Tina Carstens)

The purpose of this project is to provide engineering assistance and technical guidance to help cities in and around Twin Lake and West Vadnais Lake determine emergency flood response options for implementation.

Early in September, the water level in Twin Lake was lowered below the rim of sanitary manholes near the lake through the City of Little Canada's pumping efforts. The city then raised the rim elevations of sanitary manholes and stopped pumping in early September. On September 11, the city council decided to leave the pump in place until RWMWD installed the temporary bypass for overflow from West Vadnais Lake or water levels in West Vadnais Lake begin to steadily recede.

In September, Barr also helped the RWMWD obtain a Minnesota Department of Transportation (MnDOT) drainage permit that allows a temporary bypass pumping of overflows from West Vadnais Lake, around Twin Lake, during flooding events. These overflows will be collected near the inlet to a 24-inch pipe, west of Five Star Estates, and pumped to the Stymie Pond outlet structure under the conditions of the permit. In addition, Barr and RWMWD staff have been working with pumping subcontractors, and coordinating with Five Star Estates, Saint Paul Regional Water Services, and Cities of Little Canada and Vadnais Heights in preparation for the temporary bypass pumping, if the water level in West Vadnais Lake rises above the overflow elevation and we believe it will stay above that elevation for an extended period of time.

Finally, Barr staff began the study to evaluate if there are feasible permanent outlet options for Twin Lake. As a part of this month's work, staff reviewed design criteria and began discussions with MnDOT.

#### **Project feasibility studies**

## System-wide evaluation of flood control options/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 performance to reduce flooding impacts to homes adjacent to RWMWD-managed water bodies.

During the August Board Meeting, Barr Engineering provided an overview of preliminary findings for the Beltline Resiliency Study. The purpose of the Beltline Resiliency Study is to evaluate system-level modifications to reduce flood-risk to habitable structures in flood-prone areas tributary to the Beltline storm sewer. System modifications are intended to demonstrate one option for mitigating flood-risk that does not include purchasing flood-prone property. There may be other options that will be considered, and prior to implementation additional feasibility studies will, therefore, likely be necessary, to further evaluate system modifications included in the study to verify that the cost effective and optimal modification has been identified.

During the August meeting, there was discussion about sequencing of system modifications included in the Beltline Resiliency Study. As a point of clarification to that discussion, in general, system modifications in the downstream portion of the watershed were assumed to be implemented prior to upstream modifications. For example, with respect to consideration in the study that evaluated changing the conveyance capacity of the Lake Owasso outlet, all the downstream modifications that were presented at the August board meeting were assumed to be in place. Those downstream modifications included updates to all downstream outlets including Lake Wabasso, Grass Lake, West Vadnais, Gervais Creek Crossing, and control structures on the Phalen Chain were assumed as part of the study that looked at the Lake Owasso outlet modification. This approach of implementing downstream modifications, first and foremost, is necessary to prevent adverse downstream impacts. At no time was there a suggestion that increasing the outlet capacity from Lake Owasso should take place without downstream modifications to the drainage system to accept this increased flow and convey it downstream. As the Board continues to consider the information offered in the study, please assume that all downstream modifications are in place and the details of those modifications will still likely require specific feasibility studies to guide design elements and understand permitting requirements.

This past month Barr continued to develop documentation for the system modifications included in the resiliency study. Documentation included developing report figures for existing conditions, summarizing model results, documenting sequencing of system modifications, and continued to develop planning-level cost estimates for the system modifications mentioned in the study. A draft of the documentation will be provided for RWMWD staff to review later this year.

Feasibility studies for the Owasso Basin bypass concept, the Willow Creek flood reduction concept, and the Ames Lake area concept are included in the draft 2020 engineering budget.

## 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 to develop information required to update the FEMA floodplain maps.

Barr provided responses to DNR comments and updated models to the DNR on August 29. The resubmittal included 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 anticipate receiving comments from the DNR on this submittal in September or early October and will respond to comments and submit preliminary floodplain maps for DNR review. As a result of the extended time for the DNR to provide comments, the process for providing the DNR information to update the floodplain maps was extended by the DNR and will now continue through the winter of 2020

## Snail, Grass, and West Vadnais lakes outlet permitting with the DNR (Barr project manager: Erin Anderson Wenz; RWMWD project manager: Tina Carstens)

The purpose of this project is to prepare and facilitate DNR permitting for the proposed lowering of the West Vadnais Lake outlet.

The environmental assessment worksheet (EAW) that evaluates the impact of lowering the 15-inch outlet from West Vadnais Lake by 0.8 feet to provide additional live storage was submitted to the Environmental Quality Board (EQB) in early September. A notice of document availability was published in the *EQB Monitor* on September 9, 2019. The notice stated that comments on the EAW can be submitted to VLAWMO, the responsible government unit (RGU), by October 9, 2019.

As the RGU for the EAW, VLAWMO must make a decision on whether impacts were adequately addressed in the EAW or if preparation of an environmental impact statement is required. According to procedures established by the EQB, VLAWMO must make this decision by November 9, 2019. The record of decision will include a summary of VLAWMO's responses to all comments received on the draft EAW and will be submitted for publication in the *EQB Monitor*.

# 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.

Draft figures are still under review by district staff. Once their review is complete, Barr will finalize soon thereafter. These maps can will be used in community outreach activities with the cities and other entities within the RWMWD.

## 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. This project was initiated because the Minnesota Wetland Conservation Act rules and statute are changing their focus to allow wetland replacement in areas outside of the RWMWD, there are no wetland banks within the RWMWD, and the RWMWD has a "no net loss" policy for wetlands within its boundaries. Last month, the RWMWD managers asked to see where the potential wetland restoration sites are located. A \*.kmz file ad and \*.pdf that show the 143 potential restoration sites that we have been evaluating as a part of the Wetland Restoration Site Search Study are being emailed to the managers for review in preparation for a board meeting discussion. Google Earth is necessary to open and view the \*.kmz file. In both the \*.kmz and \*.pdf files, the potential restoration sites evaluated in the study so far are shown outlined in yellow. Existing RWMWD wetlands are shown in blue on the \*.kmz and in purple on the \*.pdf.

As described in last month's Board packet, our desktop analysis looked for sites that:

- are undeveloped (open space or farmed)
- have hydric soil
- the National Wetland Inventory (NWI) describes as having been ditched, drained, or partially drained
- are hydric soil areas that are not identified as wetland in the Minnesota Routine Assessment Method for Evaluating Wetland Function or the NWI
- are hydric soil areas adjacent to existing wetlands
- are Restorable Wetland Inventory areas identified by the Natural Resources Research Institute

Note that Pigs Eye, Grass Lake and Wetland A do not fit within these criteria as they have not been "ditched, drained, or partially drained" to the extent there is restoration potential. There are some sites adjacent to, or near these areas that have restoration potential, however. Per the scope of this effort, this phase of the study is focused on identifying areas where more water could be brought to a previously drained area to restore a historic wetland. This is a more traditional approach to wetland restoration planning. As discussed at the September 16 board workshop, wetlands that are experiencing extended flooding may or may not be impacted in a negative way, according to standard wetland assessment methods, and an evaluation method for looking at their restoration potential would need to be developed, should the board choose to expand the scope of this effort and head in that direction. The flooding of the wetland may merely be changing the type of the wetland, and possibly be determined through standard assessment methods to be, in some cases, an improvement. Therefore, not resulting in any restoration potential. This may be a discussion point for the board as they consider this study.

Using the guidelines above, Barr found 143 potential wetland restoration sites across the district. Most sites are quite small, with 43 being less than one acre in size, and only six sites larger than 20 acres. The next step (to be presented at the October Board meeting) is to develop a prioritization methodology to help RWMWD staff and the board decide which areas to pursue (and why). Some examples of typical prioritization considerations in wetland restoration projects are:

- potential credits for wetland bank sites
- potential for upland buffer areas
- ease of restoration
- land ownership
- restoration (increasing hydrology) that does not pose additional flood risk to neighbors or existing infrastructure
- educational opportunity

The following additional prioritization considerations are recommended for this project:

- willing partnerships
- habitat restoration and opportunities for increased habitat connectivity corridors
- flood storage potential
- water quality benefits
- projected land use (where future changes to land use might make a restoration project more viable)
- connectivity with or between important natural resources
- proximity to other protected lands, parks, trails, natural resources and other special features (such as high biodiversity significance areas, resource-sensitive areas, and the Mississippi River)
- proximity to schools and churches or other institutions where an educational component may be valuable
- equity areas

Currently, changes from the 2003-2005 wetland assessment are not a part of the prioritization - this phase of the project was planned to be only a desktop assessment looking at historic wetlands that have been drained. However, future phases of the project could include evaluation of wetland changes that have occurred.

#### Monitoring water quality/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.

Formal approval has been obtained from the Board of Water Commissioners of the City of St. Paul to build a lake level monitoring station at the southeast end of West Vadnais Lake. This location was chosen instead of Grass Lake, because it offers more stable conditions, better access, and will allow for an easier and more cost effective installation. RWMWD staff has begun working with Peterson Co. to schedule installation of a shelter, conduit, and electrical power.

At the Lake Owasso site, Peterson Co. continues to work on installation of the concrete pad and shelter, but has been delayed by recent wet weather. At the Lake Phalen site, Kilmer Electric/Peterson Co., continue to work with Xcel Energy to determine the best point from which to bring in power to the station. All agreements have now been signed for the Lake Wabasso site and equipment installation can proceed.

We are still waiting for approval for the Snail Lake station by Ramsey County Parks and Rec. We anticipate that this station will be approved for installation. These monitoring stations will be used in conjunction with the emergency response plans to help guide cities in plan implementation to protect homes during floods.

## Maplewood Mall monitoring (Barr project manager: Matt Kumka; RWMWD project manager: Paige Ahlborg)

The purpose of this project is to assess functionality of the Maplewood Mall stormwater retrofit project as it enters its fifth year of total completion. Features that will be inspected include all stormwater infrastructure, plantings, and tree growth. The findings, including site improvement and maintenance recommendations, will be summarized and presented to the board.

Planting of the replacement trees at Maplewood Mall is now complete. Planting occurred the first week of September and was completed within four days. Nature has provided adequate water to the trees since planting. They are expected to establish well. A payment request will likely be submitted in October.

## Spent-lime pond application research project (Barr project manager: Greg Wilson; RWMWD project manager: Eric Korte)

This project is a partnership between Barr (funded through the Minnesota Stormwater Research Council [MSRC]), RWMWD, cities of Maplewood and White Bear Lake, St. Paul Regional Water Services, and VLAWMO. The project will consist of a pond application of spent lime to control internal phosphorus loading in Wakefield Pond, the small stormwater pond immediately south of Wakefield Lake and north of Larpenteur Avenue.

As mentioned last month, to accommodate a schedule that includes a summer effectiveness-monitoring period, Barr was granted an extension to the overall project schedule. As a result, we are currently preparing an updated work plan that will extend the schedule through October 2020, and will be submitted for approval by Minnesota Stormwater Research Council in the coming weeks.

#### **Capital improvements**

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

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

Construction is underway, and weekly construction meetings are taking place. Barr and the RWMWD have attended several of the meetings. The first phase of the road reconstruction project is complete. Veit is beginning the second half of the project and has started excavating the east basin. There appears to be good sand at basin subgrade elevation on the south end of the basin.

## School, commercial, and faith-based sites BMP 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.

Construction continues at Redeemer Lutheran Church in White Bear Lake. This project includes two rain gardens, a shoreline buffer installation, and an erosion control repair at the church school's play yard. In addition, construction activities have begun at Cornerstone Montessori School in St. Paul. This project

includes a rain garden and shoreline buffer installation. Work on both projects is expected to be complete before winter.

## Targets and Motel 6 stormwater 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.

A survey firm was selected for the design survey at the three sites. The survey is expected to be complete by mid-October and will collect the required information for final design at the three sites. Conceptual design work at the two Target retail store sites will take place concurrently with the survey work, since the base information from the original site plans is available.

## Willow Pond Continuous monitoring and adaptive control (CMAC) spent lime filter (Barr project manager: Erin Anderson Wenz; RWMWD project manager: Paige Ahlborg)

The purpose of this project is to design, provide bid assistance for, and oversee construction of a spent lime filter that takes intermittent flow from Willow Pond in Roseville through the use of CMAC technology. The completed project will remove dissolved and particulate phosphorus to benefit Bennett Lake.

Barr met onsite in early September to run a sampling event over a three-hour duration. Water quality samples, depth measurements, and pH were taken at the inlet and outlet locations of the spent lime basin at predetermined intervals. Increases in pH were noted between the inlet and outlet. Staff are still awaiting water quality sample results as of September 25, 2019. In addition, Barr met in September to discuss options to address water accumulation in the area of the valve manhole. Some drainage work will likely be necessary to mitigate this minor issue. The project will be complete and ready for project closeout after a plant establishment inspection in October.

As a final matter, staff are proceeding with the installation of a cedar split-rail fence to reduce foot and bike traffic in the filtration area. The City of Roseville approved the proposed fence design. Fence installation will likely be completed outside of this project's scope by Minnesota Native Landscapes, as part of the maintenance contract.

## Cottage Place wetland restoration (Barr project manager: Fred Rozumalski; RWMWD project manager: Paige Ahlborg

The purpose of this project is to evaluate options for restoring the wetland south of the St. Odelia Church property and west of the Cottage Place cul-de-sac in Shoreview. A restored wetland could be used to offset wetland loss in other parts of the RWMWD.

Barr has developed a conceptual wetland restoration plan for the project area. The plan includes grading to expand the existing wetland, relocation of the concrete and bituminous debris on the site, design of trails and boardwalks, and native plant community restoration. The concept will be presented to the RWMWD staff soon for feedback and direction.

## 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.

Rainwater garden grading, repair and reconstruction work is ongoing. Barr and RWMWD staff are frequently on site to perform construction observation as needed. This project, led by the county's design-build contract (Loeffler) has multiple stakeholders. As such, the project has required careful and continuous correspondence from Barr and RWMWD staff.

#### CIP project repair and maintenance

## Kohlman Lake Macrophyte Management (Barr project manager: Keith Pilgrim; RWMWD project manager: Bill Bartodziej)

The purpose of this project is to develop a calibrated model that can be used to evaluate the effect of aquatic plant growth and aquatic plant harvesting on Kohlman Lake water quality.

The intended outcomes of this project are: (1) develop a working, calibrated model that can be used for Kohlman Lake and other RWMWD lakes to better understand the effect of aquatic plants and aquatic plant harvesting on lake water quality, and (2) publish these results of this study for Kohlman Lake and potentially other RWMWD lakes. This study is ongoing and should be complete by the end of 2019.

## CIP maintenance/repairs 2019 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.

At the September meeting, a change order was approved for the contractor to perform the site grading and restoration work in the area caused by high water in the Grass Lake area this spring and summer. Final completion and contract closeout is expected by the end of October 2019, after this work is complete.

In October, we will be preparing a preliminary design and draft bidding documents for the 2020 maintenance and repairs project. Staff will present these preliminary plans and associated budget implications at the November board meeting.

#### Natural Resources Update – Bill Bartodziej and Simba Blood

#### Wetland-A Ecological Restoration

A few weeks ago, we had the opportunity to conduct a shoreline planting with our Citizen Advisory Committee. We focused our efforts on the northwest side of the wetland. Fortunately, the weather was perfect. In a two hour period, we were able to plant over 500 wetland plants along a 1,000 stretch of shore. The planting was very efficient, and the volunteers started to build a connection with the restoration. The plants originated from the Ramsey County Corrections Greenhouse facility.



Dana Larsen-Ramsay and Cindy Johnson worked together to plant blue flag iris and bottlebrush sedge. (This area was completely devoid of wetland plants prior to the planting.)



One of our budding volunteers took a break to inspect an amphibian.



Green frogs were hopping around during the planting and were fun to observe.



Flocks of monarchs found flowering meadow Meadow blazing star in the upland buffer.

Heading into fall, the restoration is right on track. In the upland buffers, we have very solid plant establishment in areas that were planted by student volunteers. We are also getting good plant establishment in areas that were seeded with the prairie seed drill. In the wetland transitional zone (along the water), we have a good diversity of plant species that are tolerating the current water level fluctuations. Prior to the restoration, we did not have any appreciable wetland plant community along the shore edge of Wetland-A. NR staff are actively hand pulling invasive cattail and other weedy species along the shore edge. Having dedicated NR maintenance staff is really key in keeping on top of this activity. This is one of the reasons why the District can boast of such high quality ecological restorations over the long-term.



Although the water level bumped up after planting, the wetland sedges (red arrows) are now flourishing. The black arrow is pointing to a buckthorn stump. Most of the woody debris in the water is buckthorn.

#### Public Involvement and Education Program – Sage Passi

#### Master Water Stewards Cross the Finish Line and Complete Capstone Projects





*Left: Logan Stapleton sorts plants for the restoration at Lake Phalen. Right: Bill Cranford, a Master Water Steward (foreground) installs upland and wet meadow plants on the "Point" along with a team of other volunteers.* 

When Logan Stapleton first joined the Master Water Steward training program, he was asked what he expected to gain from his participation in the program. His response was, "I'd love to learn enough about our urban water systems to be able to teach others about Lake Phalen and its role within our ecosystem."

Logan grew up on the east side of Lake Phalen and, from the moment he entered the program last fall, he set his capstone project sights on finishing off the restoration efforts that began on Lake Phalen back in 2001. There was a small section of the east shoreline, known as the "Point" in his childhood neighborhood that had not yet been restored. He met with Natural Resources staff Bill and Simba in the spring and began making plans to restore a 125 feet long section of the shoreline that was characterized by a mix of invasive trees, shrubs and reed canary grass. This restoration project required permission from the city. Once that was secured, St. Paul Parks and Recreation assisted by removing the larger trees along the shoreline and watershed staff helped in the preparation of the site.

Logan drew on his own networks and invited his friends on Facebook as well as family members to help out on the day of the planting. Logan is also a Master Gardener so he recruited some help from that connection as well as several other Master Water Stewards. On a beautiful, mild, sunny Saturday in mid-September, he and his team of volunteers gathered on the shoreline and set to work restoring the edge of the lake with a mix of native wetland and upland plants. His brother, a middle school science teacher, also donned waders and went into the lake to retrieve garbage coming from a nearby large outfall site.

The timing for this event was synergistic and could not have turned out better. The project had a built in audience on that was comprised of hundreds of walkers participating in a fund-raising walk sponsored by the ALS Association who passed by the site on their way around Lake Phalen. An enthusiastic atmosphere and fanfare of excitement and cheering was pervasive throughout the morning as the restoration project was being completed. To culminate the project, Logan's mother who had been helping with the restoration, stepped away from the site and returned with a hearty picnic lunch for the volunteers. A canoe was carried down to the shoreline and the project was book-ended with a refreshing paddle around the lake to celebrate the completion of this project.



#### Bobbie Scott's Capstone Project Demonstrates Water and Pollinator Friendly Practices

When Bobbie Scott, who lives on the East Side of St. Paul, east of White Bear Avenue stepped into the role of being a Master Water Steward-in training last fall she said, "I want to become an advocate for sustainable landscape practices. I would like to use my property to illustrate good practices and I would like to be a resource for others. I used to live in sandy Sherburne County where people wanted sod lawns and irrigation and it bothered me tremendously."

Throughout the winter and spring, as she went through the course, she also attended several Blue Thumb workshops and consulted with Master Gardener, Linda Neilson, Michael Schumann from Ramsey Conservation District, Metro Blooms staff and District educator, Sage Passi before she came up with a plan. Bobbie explained her demonstration capstone project plan that she developed for her boulevard.

"The grass on my boulevards sits a couple inches above the sidewalk. I have trouble with erosion after rainstorms and water pooling and freezing on the sidewalk in the spring. The project is meant to correct that problem and improve water infiltration as well as provide habitat for pollinators." In September the sod was removed from her boulevards and she brought the surface level down 3-4 inches below the sidewalk. About an inch of compost was tilled into the soil and then she planted a variety of native plants including about 8 species of sun-loving plants and 6 shade loving species because the boulevard sections have different light conditions. The project is located at 2004 Fremont Avenue East in St. Paul.

#### School Investigations Prompt Curiosity about Native Plants, Bees and How Water Moves

Fall provides a short window of time for the Watershed to lead classes outside with hands-on activities for students like these St. Peter School fourth graders who studied the native plants and pollinator interactions that were abundant in their school garden in late September. They also roamed their campus in a scavenger hunt to "see with new eyes" a storm drain in their parking lot, pervious and impervious pavement, scuppers from the roof, rock inlets and swales in an effort to discover how water is transported around their site.



Similar activities are scheduled for four Farnsworth third grade classes for the last week in September. Several field trips to Beaver Lake, Gervais Millpond and Snail Lake/Grass Lake Regional Park are planned for October for classes from L'Etoile du Nord, St. John of Little Canada and Lionsgate Academy.

#### **Recruitment for Master Gardener Program in 2020**

We are excited about the prospect of having three new Master Water Stewards for the next round of the program. We have received applications from and have interviewed three Roseville residents who have expressed strong interest in participating in the program. The graduation and showcase for this year's six Master Water Stewards and others around the metro area will be held on October 8. Classes for new Stewards begin on October 15.

#### **Upgrades in MS4 Toolkit Are In Process**

At the September Watershed Partners meeting, Chakong Thao and Samantha Connolly from the MPCA provided an overview of some of the new and updated elements in the MS4 tool kit that are being developed. One of the goals of this upgrade is to improve education programs by including diverse audiences through the translation of some of the new materials. Washington Conservation District has been working with a graphic designer and two videographers to create new materials for the toolkit, which will be ready by the end of 2019. New materials will be available in English, Spanish, Hmong and Somali and will include videos on lawn care, planting for clean water, illicit discharge, groundwater; print materials on common impairments, a flow chart of water governance, storm sewers and pipes, waste disposal, small scale erosion control and short videos for municipal staff on required topics. The Stormwater Manual will be accessible on Wiki and available to anyone. See this link <u>MPCA Stormwater Wiki</u>