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RCWD BOARD OF MANAGERS REGULAR MEETING AGENDA

Wednesday, August 14, 2024, 9:00 a.m.

Shoreview City Hall Council Chambers 4600 North Victoria Street, Shoreview, Minnesota

or via Zoom Meeting:

https://us06web.zoom.us/j/85160232566?pwd=SbC7ZOna5a93iAlWaGSzjQzUhYq822.1

Meeting ID: 851 6023 2566

Passcode: 035720

+1 312 626 6799 US (Chicago)

Meeting ID: 851 6023 2566

Passcode: 035720

Agenda

CALL TO ORDER

ROLL CALL

SETTING OF THE AGENDA

APPROVAL OF BOARD MINUTES: JULY 24, 2024, REGULAR MEETING

CONSENT AGENDA

The following items will be acted upon without discussion in accordance with the staff recommendation and associated documentation unless a Manager or another interested person requests opportunity for discussion:

Table of Contents-Permit Applications Requiring Board Action

No.	Applicant	Location	Plan Type	Recommendation
24-045	Elmcrest Vistas, LLC	Forest Lake	Final Site Drainage Plan Land Development Wetland Alteration	CAPROC 8 items
It was moved by Manager		and so	econded by Manager	, to
approve	the consent agenda as	outlined in the al	pove Table of Contents in a	ccordance with
RCWD E	District Engineer's Finding	gs and Recomme	ndations, dated August 6, 2	2024.

WATER QUALITY GRANT PROGRAM COST SHARE APPLICATION (MOLLY NELSON)

No.	Applicant	Location	Project Type	Eligible	Pollutant	Funding
				Cost	Reduction	Recommendation
R24-08	Chip Ahn &	White	Concurrent	Ahn:	Volume:	Ahn: 50% cost
	Travis Visser	Bear Lake	Shoreline	\$10,254.00	28.2%	share of \$5,127 not
			Stabilization	Visser:	TSS: 99.8%	to exceed 50%; or
			&	\$8,711.00	TP: 86%	\$7,500 whichever
			Restoration			cost is lower
						<u>Visser</u> : 50% cost
						share of \$4,355.50
						not to exceed 50%;
						or \$7,500
						whichever cost is
						lower
R24-09	Timber Hills	White	Rain garden	\$1,633.75	Volume:	50% cost share of
	Beach	Bear Lake			46%	\$816.88 not to
	Association				TSS: 46%	exceed 50%; or
					TP: 46%	\$7,500 whichever
						cost is lower
R24-10	Silverthorn	Shoreview	Wetland	\$1,882.15	Volume:	50% cost share of
	Estates		Edge		98%	\$941.08 not to
			Stabilization		TSS: 98%	exceed 50%; or
					TP: 98%	\$7,500 whichever
						cost is lower
W24-	Christel	Forest	Prairie	\$7,385.77	Volume:	50% cost share of
01	Johnson	Lake	Restoration		81.8%	\$3,692.88 not to
					TSS: 81.77%	exceed 50%; or
					TP: 81.8%	\$7,500 whichever
						cost is lower
W24-	Forest Lake	Forest	Infiltration	\$27,585.59	Volume: 5	75% cost share of
02	Area High	Lake	Basin		in/yr	\$7,500 not to
	School/		Restoration		reduction	exceed 75%; or
	Minnesota		and Prairie		TSS: 81	\$7,500 whichever
	Water		Conversion		lbs/yr	cost is lower
	Stewards				reduction	
					TP: 0.5	
					lbs/yr	

It was moved by Manager ______ and seconded by Manager ______, to approve the consent agenda as outlined in the above Table of Contents in accordance with RCWD Outreach and Grants Technician's Recommendations dated August 7, 2024.

PUBLIC HEARING: PROPOSED 2025 BUDGET & LEVY, AND WATER MANAGEMENT DISTRICT (WMD) CHARGES

OPEN MIC/PUBLIC COMMENT

Any RCWD resident may address the Board in his or her individual capacity, for up to three minutes, on any matter not on the agenda. Speakers are requested to come to the podium, state their name and address for the record. Additional comments may be solicited and accepted in writing. Generally, the Board of Managers will not take official action on items discussed at this time, but may refer the matter to staff for a future report or direct that the matter be scheduled on an upcoming agenda.

ITEMS REQUIRING BOARD ACTION

 Check Register Dated August 14, 2024, in the Amount of \$169,163.09 Prepared by Redpath and Company

ITEMS FOR DISCUSSION AND INFORMATION

- 1. District Engineer Update and Timeline
- 2. Administrator Updates
- 3. Manager's Update

Approval of Board Minutes: July 24, 2024, Regular Meeting

DRAFT

1 2 For Con 3 Use the 4

For Consideration of Approval at the August 14, 2024 Board Meeting. Use these minutes only for reference until that time.

REGULAR MEETING OF THE RCWD BOARD OF MANAGERS

Wednesday, July 24, 2024

Shoreview City Hall Council Chambers 4600 North Victoria Street, Shoreview, Minnesota and

Meeting also conducted by alternative means (teleconference or video-teleconference) from remote locations

5 Minutes

6 CALL TO ORDER

President Michael Bradley called the meeting to order, a quorum being present, at 9:00 a.m.

ROLL CALL

10 Present: President Michael Bradley, 1st Vice-Pres. John Waller, and 2nd Vice-Pres. Steve Wagamon

12 Absent: Treasurer Marcie Weinandt and Secretary Jess Robertson (with prior notice)

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Staff Present: District Administrator Nick Tomczik, Regulatory Manager Patrick Hughes, Program Support

Technician Emmet Hurley (video-conference), Drainage & Facilities Manager Tom Schmidt,

Outreach and Grant Technician Molly Nelson, Office Manager Theresa Stasica

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Consultants: District Engineer Chris Otterness from Houston Engineering, Inc. (HEI); District Attorney

Louis Smith from Smith Partners

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Visitors via video conference: Marcie Weinandt

23 **SECRETARY PRO TEM**

Motion by Manager Waller, seconded by Manager Wagamon, to appoint Manager Waller to serve as

Secretary Pro-Tem and Manager Wagamon to serve as Treasurer Pro-Tem for this meeting.

26 **Motion carried 3-0.**

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SETTING OF THE AGENDA

29 District Administrator Tomczik stated that he would like to add two new items under Items Requiring Board

30 Action: Miron Water Quality Grant – Contractor Payment; and Clean Water Council Letter.

32 Motion by Manager Bradley, seconded by Manager Waller, to approve the agenda, as amended.

33 Motion carried 3-0.

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READING OF THE MINUTES AND THEIR APPROVAL

- Minutes of the July 8, 2024, Workshop and July 10, 2024, Board of Managers Regular Meeting. 36 Motion
- 37 by Manager Waller, seconded by Manager Bradley, to approve the minutes as presented. Motion
- carried 3-0. 38

OPEN MIC/PUBLIC COMMENT 39

None 40

ITEMS REQUIRING BOARD ACTION

Anoka County Ditch 53-62 Stabilization Work Order

Drainage and Facilities Manager Schmidt gave an overview of the work order for stabilization of ACD 53-62 in the area of the repair that was just completed. He explained that following spring rains, inspection identified sloughing of the ditch bank where the work had been done, so they took action to try to stabilize it in order to prevent further damage. He noted that the work was done under the auspices of minor maintenance, but needed Board approval, because of the amount.

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Motion by Manager Waller, seconded by Manager Bradley, to approve US Site Work's Erosion Repair Proposal work order dated June 28, 2024, not to exceed \$35,546.45 and delegate to the administrator, on the advice of counsel, the authority to execute the described individual work order. Motion carried 3-0.

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2. 2024 Rule Revision – Distribution for Public Review

Regulatory Manager Hughes explained that staff were looking to distribute the draft revisions to the rule for public review and comment. He noted that staff had presented a draft of the proposed rule language at their June Workshop meeting and stated that staff had only made minor changes since that meeting. He explained that they were proposing that the review period begin today through September 20, 2024, and that the public hearing be held on September 11, 2024.

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President Bradley stated that he had a few questions for staff.

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Manager Waller suggested that they make the motion and then have discussion.

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Motion by Manager Waller, seconded by Manager Wagamon, to open discussion on Resolution 2024-05 Directing Distribution Of Proposed Rule Revisions And Notice Of Public Hearing. Motion carried 3-0.

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President Bradley explained that he felt the questions to staff could also have been asked prior to making that motion because either method was acceptable for discussion. He referenced page 25 of the rules, item f. regarding soil testing, and stated that he questioned the use of the word

'encourage' within this statement. He asked if it was required, why they would just 'encourage' 72 something. 73 74 Regulatory Manager Hughes stated that they do not require it, but it would certainly be encouraged 75 because it will give them more data. 76 77 78 District Engineer Otterness noted that soil permeability testing adds a cost to the applicant, but 79 there will also be some sites where it is inappropriate or doesn't fit. He explained that they would not want to identify this testing as being 'required' if it wasn't feasible to do, would not provide 80 logical data, and would put a burden on the applicant for something that would not provide value. 81 82 83 President Bradley referenced page 34 of the rules, item e., he stated that this referenced 'Notice of Intent', but there was not a definition for 'Notice of Intent' included. He suggested that instead of 84 capitalizing this reference that they simply refer to it as 'notice of intent' because there was not a 85 definition. 86 87 Regulatory Manager Hughes explained that the District has a form that they call 'Notice of Intent', 88 but they can make that change if the Board would like. 89 90 President Bradley asked if he would rather put in a definition that says something like, 'see our 91 92 form'. 93 94 Regulatory Manager Hughes stated that he would take the suggestion of President Bradley and just change the language to be in lower case, because it would provide the opportunity to more easily 95 change the form in the future. 96 97 98 President Bradley referenced page 37 of the rules, item 3a., and noted that he thought that they 99 would have to say 'greater than' and asked for more details on the intent behind using the term 'non-coincident'. 100 101 102 District Engineer Otterness explained that 'non-coincident' refers to the timing of peak water elevations in a stormwater pond versus the timing of peak flood elevations in the adjacent 103 floodplain. It is important to make sure that the applicant does not get credit for floodplain storage 104 within their pond, if the storage will be unavailable at the time of a peak flood. 105 106 107 Regulatory Manager Hughes noted that this was something that the District currently does in their review process and explained that they ask the applicants to demonstrate it, but this would make it 108

clear within the rule.

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111	President Bradley referenced page 37 of the Rules (Rule E3(i))., and noted that it says 'not intended
112	for human habitation' and stated that they had previously added, 'and not attached to a habituated
113	structure'.
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115	Regulatory Manager Hughes recalled the discussion on attached versus non-attached.
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117	President Bradley suggested that they also use the same language that was used earlier.
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119	District Engineer Otterness referenced Rule C.9., which says 'not attached to a habitable structure'
120	and suggested that they go back and make the language in Rule E3(i) exactly the same.
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122	Manager Waller asked when the District does soil borings if it goes to a lab for analysis.
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124	District Engineer Otterness answered that it would depend on what the purpose of the borings were.
125	He noted that if they were doing the borings for the purpose of determining the water table and the
126	ability of the soil to drain, then it would not necessarily go to a soils lab. He stated that there are
127	plenty of other reasons where borings may be taken that will go to a lab, but for the purposes of the
128	infiltration, that would typically not require going to a soils lab because they can do on-site
129	identification of the soils types and see the features in the soil that indicate where the soils table is.
130	
131	Manager Waller noted if they did go to a soils lab, that would be something that the District was
132	familiar with and could send samples to get analysis done.
133	
134	District Engineer Otterness stated that one thing that the District will do oftentimes for their own
135	projects, especially when they are doing dredging, is get a soils analysis to determine if they have to
136	transport the material to meet MPCA requirements.
137	
138	Manager Waller stated that this has been a common practice and was not something that they
139	would not know how to do.
140	
141	District Administrator Tomczik stated that it was his understanding at the beginning of this action
142	item there was a motion and a vote and asked for clarification on the action.
143	
144	Manager Waller explained that he had simply made a motion to discuss this issue and now they
145	would need to make a motion to approve it.
146	
147	Motion by Manager Waller, seconded by Manager Bradley, to adopt Resolution 2024-05
148	Directing Distribution Of Proposed Rule Revisions And Notice Of Public Hearing.
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150	THEREFORE BE IT RESOLVED that pursuant to Minnesota Statutes §103D.341, the District

administrator is to distribute the proposed rule documents as presented in the July 24, 2024 Board

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Motion carried 3-0.

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152 meeting packet, with any further non-substantive revisions, and otherwise make the documents available for public review and comment for a period of at least 45 days; and 153 154 BE IT FURTHER RESOLVED that in accordance with all legal requirements, the District 155 156 administrator shall give notice of a public hearing on the proposed rule revisions to be held in conjunction with the regular meeting of the Board on September 11, 2024. 157 158 159 **ROLL CALL:** President Bradley - Aye 160 Manager Robertson – Absent 161 162 Manager Wagamon – Aye 163 Manager Waller – Aye Manager Weinandt - Absent 164 Motion carried 3-0. 165 166 167 President Bradley asked Manager Weinandt if she would like to comment since she was following the meeting via electronic means. 168 169 170 District Attorney Smith cautioned that he did not believe Manager Weinandt's location had been officially noticed. 171 172 173 Manager Weinandt stated that while she could not officially vote from her remote location, she 174 would like it on the record that she was also in support of this resolution. 175 176 3. Miron Water Quality Grant – Contractor Payment Outreach and Grant Technician Nelson reviewed the request for contractor payment for the Miron 177 178 Water Quality Grant. She noted that the project was not yet completed, but the engineer has 179 inspected and approved the release of funds. She explained that they had asked the engineer to be present in case the Board had any questions, however they were not able to attend. She stated that 180 if the Board ended up having questions she would get them in contact with the engineer. 181 182 Motion by Manager Waller, seconded by Manager Wagamon, to approve W20-02 Cost-Share 183 184 Voucher Payment to Ashwill Companies as submitted and certified by the Outreach and Grant Technician Nelson and direct staff to issue a payment in the Amount of \$30,000. 185 186 Manager Waller thanked Outreach and Grant Technician Nelson for her work on this and noted 187 that he thought the photographs were wonderful. 188 189

Manager Weinandt stated that she agreed that the pictures were great and she also supported this payment.

4. Biennial Solicitation for Professional Services 2025-26

District Administrator Tomczik stated that staff is seeking authorization to post a notice that the District is soliciting for professional services, which is something that they undertake every 2 years. He reviewed the notice's guidance for submittals. He explained that the notice provides about 1 month for submittals and will bring those back for Board consideration at their October 7, 2024 Workshop meeting and the Board may determine if it wished to interview candidates. He noted that there was a request for a change in the notice language adding Human Resources consultant as well as Information Technologies to the initial list of the District needs.

Motion by Manager Bradley, seconded by Manager Wagamon, to Authorize the Administrator to publish in the District's official newspaper, post on District website, and distribute to its current consultants the Solicitation of Interest Notice for Professional Services. Motion carried 3-0.

5. Clean Water Council Letter

District Administrator Tomczik stated that Minnesota Watersheds sent out a call of action solicitation. He explained that Minnesota Watersheds know the Clean Water Council was considering their fiscal year 2026-2027 recommendations and potential changes in allocations to the Clean Water Fund grants; funding that the District often uses. He stated that many watershed districts benefit from the continued funding at the current levels. He explained that the proposed letter identifies select District important or significant projects and puts forth that this is a valuable asset for the District in completing their work.

President Bradley stated that he wanted to acknowledge the fine work that the Clean Water Fund grants have done to benefit the District and have allowed them to do such important projects such as those listed within the letter. He thanked Manager Weinandt for her service on the Clean Water Council in assisting watershed districts to obtain these grants.

Manager Weinandt stated that it is good to have the full Council actually understand what those watershed based implementation funds are all about. She stated that they have been getting good responses from the watersheds and felt that it was educational for all the members.

There was Board consensus to approve sending the Clean Water Council letter, as presented.

6. Check Register Dated July 24, 2024, in the Amount of \$239,963.25 and July Interim Financial Statements Prepared by Redpath and Company

Motion by Manager Wagamon, seconded by Manager Bradley, to approve check register dated July 24, 2024, in the Amount of \$239,963.25 and July Interim Financial Statements, as prepared by Redpath and Company. Motion carried 3-0.

ITEMS FOR DISCUSSION AND INFORMATION

1. Staff Reports

2. August Calendar

District Administrator Tomczik noted that he would be out of town on August 28, 2024, so Regulatory Manager Hughes would be handling the Board meeting that day.

3. Administrator Updates

District Administrator Tomczik noted for the record that all the materials that were handed out to the Board this morning were posted on the website and were also available at the meeting. He stated that the District continues to work with the DNR on ACD 10-22-32 public waters. He explained that DNR provided a response and the intent is to bring that back to the September workshop meeting for discussion. He stated that District Engineer Otterness had attended the Drainage Workgroup meeting and asked if there were any updates that he wanted to share with the Board.

District Engineer Otterness stated that some of the hot topics that they have going on include noticing requirements and trying to get them consistent and changes to the statute related to the Wetland Conservation Act and DNR Public Waters. He explained that he anticipated that they will discuss those items at their August meeting.

Manager Waller asked if there were changes in the environmental committees bill this year to 103D or 103B and asked if he had also attended any other meetings. He explained that he had gotten the impression at the last meeting that District Engineer Otterness was going to attend two sets of meetings.

District Engineer Otterness stated that for 103D, there were a number of modifications that were administrative type items but noted that they had not yet been specifically discussed at the Drainage Workgroup. He stated that there was also some discussion regarding the Environmental Quality Board and the mandatory EAW/EIS categories. He stated that he did attend a meeting on that topic with the Environmental Quality Board where he had raised some concerns regarding the definition of 'public waters' because the statutory changes really make it challenging to distinguish public waters from no-public waters since the definition change has effectively taken away public waters mapping as a resource. He noted that DNR is starting a process to do re-mapping of public waters and he is hopeful that will provide a better insight to people so they have an understanding of whether something is or isn't a public water, but cautioned that he expected this to be a multi-year process.

Manager Waller asked if there had been any change to the definition of what a 'project' is within 103D or 103B.

District Engineer Otterness stated that he would not know that level of detail.

District Attorney Smith stated that there was not specifically a change in the definition of a capital improvement project, but were several procedural changes related to the planning process and the ordering of projects.

Manager Waller stated that he would like to see them in print, if District Attorney Smith has them available.

Manager Wagamon stated that he would also like to have copies of this information.

Manager Waller suggested that he go ahead and send this information to the entire Board.

District Administrator Tomczik stated that Minnesota Watersheds has a committee regarding the 103 notifications that he has been asked to participate in. He stated that the Minnesota Watersheds resolutions process, the Board had discussed one of the sunsetting resolutions, 19-01. He stated that he dug into it a bit more and found that it was not a paramount District issue orginating from Bois de Sioux Watershed District. He noted that the resolutions that the District had either initiated or had a heightened interest in remain on the books at Minnesota Watersheds. He explained that the City of New Brighton received a Minnesota Pollution Control Agency Resiliency Grant for studying the ditch near 10th Street NW, which is a private road near the apartment building that had the flooding issues in the past and part of RCD 2, 3, and 5 project.

4. Managers Update

Manager Waller expressed his appreciation to Outreach and Grant Technician Nelson for her extra work for the manure facility project. He also thanked Office Manager Stasica for sending him the updates from Minnesota Watersheds Association. He noted that on the back page of the updates he noticed that Lake and Stream Program Manager Kocian was featured as one of the speakers, which was nice to see.

Manager Weinandt stated that for the CAC meeting in August, they usually have a tour and believes this year they will be going to see the Blaine wetlands. She asked staff to send information on that to the Board, because in the past they have usually attended this tour.

ADJOURNMENT

Motion by Manager Wagamon, seconded by Manager Waller, to adjourn the meeting at 9:40 a.m. Motion carried 3-0.

CONSENT AGENDA

The following items will be acted upon without discussion in accordance with the staff recommendation and associated documentation unless a Manager or another interested person requests opportunity for discussion:

Table of	Contents-Permit Applica	tions Requiring I	Board Action		
No.	Applicant	Location	Plan Type	Recommendation	
24-045	Elmcrest Vistas, LLC	Forest Lake	Final Site Drainage Plan Land Development Wetland Alteration	CAPROC 8 items	
It was moved by Manager			and seconded by Manager		
	, to appro	ve the conse	ent agenda as outlin	ed in the	
above	Table of Contents i	n accordance	e with RCWD Distric	t Engineer's	
Findin	gs and Recommena	lations, date	d August 6, 2024.		

RICE CREEK WATERSHED DISTRICT CONSENT AGENDA

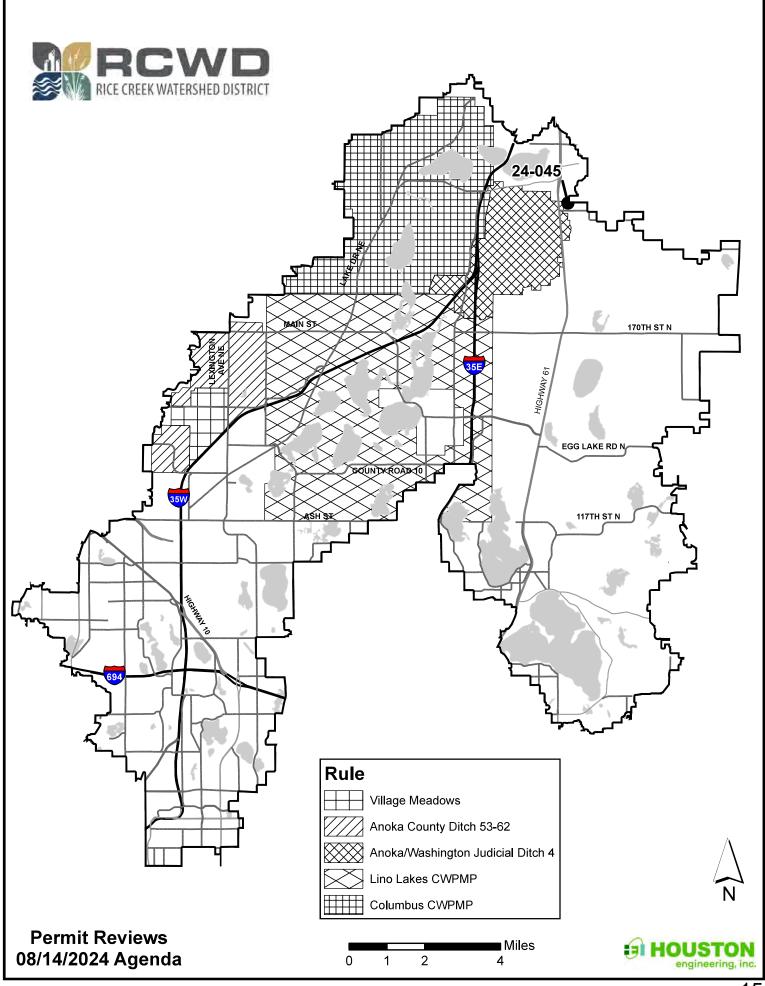
August 14, 2024

It was moved by	and seconded by
	to Approve, Conditionally Approve Pending Receipt
Of Changes, or Deny, the Permit	Application noted in the following Table of Contents, in
accordance with the District Engin	neer's Findings and Recommendations, as contained in
the Engineer's Findings and Reco	mmendations, as contained in the Engineer's Reports
dated August 6, 2024.	

TABLE OF CONTENTS

Permit Application

Number Permit Locat	Applicant	Page 15	Recommendation
24-045	Elmcrest Vistas, LLC	16	CAPROC





WORKING DOCUMENT: This Engineer's report is a draft or working document of RCWD staff and does not necessarily reflect action by the RCWD Board of Managers.

Permit Application Number: 24-045
Permit Application Name: Shadow Creek Estates

Applicant/Landowner:

Elmcrest Vistas, LLC Attn: Todd Mary Christenson 7800 Pearson Way Fridley, MN 55432 Ph: 763-268-9442 todd2414c@aol.com

Permit Contact:

Plowe Engineering Inc. Attn: Adam Ginkel 6776 Lake Drive STE 110 Lino Lakes, MN 55014 Ph: 651-361-9182 Fx: 651-361-8701 adam@plowe.com

Project Name: Shadow Creek Estates

<u>Purpose</u>: FSD – Final Site Drainage, LD – Land Development, WA – Wetland Alteration; Residential

subdivision project which proposes 46 townhome units and stormwater management BMPs

Site Size: 25.9± acre parcel / 6.9 ± acres of disturbed area; existing and proposed impervious areas are

1.6 ± acres and 4.3 ± acres, respectively

<u>Location</u>: 6150 202nd St N, Forest Lake

<u>T-R-S</u>: SE ¼, Section 20, T32N, R21W

District Rule: C, D, F, G

Recommendation: CAPROC

It is recommended that this Permit Application be given Conditional Approval Pending Receipt of Changes (CAPROC) and outstanding items related to the following items:

Conditions to be Met Before Permit Issuance:

Rule D - Erosion and Sediment Control

- 1. Submit the following information per Rule D.4:
 - (c) Name, address and phone number of party responsible for maintenance of all erosion and sediment control measures.
 - (h) Provide documentation that an NPDES Permit has been applied for and submitted to the Minnesota Pollution Control Agency (MPCA).

Rule G - Regional Conveyance Systems

The maintenance responsibility for the crossing must be memorialized in a document executed by the property owner in a form acceptable to the District and filed for record on the deed.

Administrative

- 3. Email one final, signed full-sized pdf of the construction plan set. Include a list of changes that have been made since approval by the RCWD Board. Final plans must include the following:
 - Ensure the datum is labeled.
- 4. The applicant has been notified that permit costs have exceeded \$7,500. The applicant is responsible for permit review costs in excess of \$9,000 and must pay any remaining balance due. Contact the District after all other conditions have been addressed for the final amount.
- 5. Submit a copy of the recorded plat or easements establishing drainage or flowage over stormwater management facilities, stormwater conveyances, ponds, wetlands, on-site floodplain up to the 100-year flood elevation, or any other hydrologic feature (if easements are required by the City of Forest Lake).
- 6. The applicant must submit a Draft Declaration for Maintenance of Stormwater Management Facilities acceptable to the District for proposed onsite stormwater management and pretreatment features.
- 7. The applicant must provide an attested copy of any and all signed and notarized legal document(s) from the County Recorder. Applicant may wish to contact the County Recorder to determine recordation requirements prior to recordation.
- 8. The applicant must submit a surety of \$19,600 along with an original executed escrow agreement acceptable to the District. If the applicant desires an original copy for their records, then two original signed escrow agreements should be submitted. The applicant must provide the first \$5000 in the form of a check and has the option of providing the remainder of the surety amount in the form of a check or a Performance Bond or Letter of Credit. The surety is based on \$4,000 for 6.9 acres of disturbance and \$15,600 for 31,267 CF of storm water treatment.

<u>Stipulations</u>: The permit will be issued with the following stipulations as conditions of the permit. By accepting the permit, applicant agrees to these stipulations:

- 1. Provide an as-built survey of all stormwater BMPs (ponds, rain gardens, trenches, swales, etc.) to the District for verification of compliance with the approved plans before return of the surety.
- 2. Provide an as-built survey of wetland boundaries, quantifying the wetland impact area for verification of compliance with the approved plans.
- Provide evidence that fill has been removed from Wetland 8 and the wetland has been restored.
- 4. Provide an as-built survey of all pipe sizes invert elevations of culverts/pipes on designate all pipes that are regional conveyances to verify location and elevation with the approved plans. Add any overflow elevation.
- 5. The applicant must submit a record drawing of the installed subsurface utility crossing.

Exhibits:

- 1. Revised plan set containing 17 sheets dated 7-25-2024 and received 7-25-2024.
- 2. Plan set containing 17 sheets dated 7-9-2024 and received 7-9-2024
- 3. Permit application, dated 7-8-2024 and received 7-8-2024.
- 4. Revised Stormwater Calculations, dated 7-25-2024 and received 7-25-2024, containing narrative, drainage maps, HydroCAD report for the 2-year, 10-year, and 100-year rainfall events for proposed and existing conditions

- 5. Stormwater Calculations, dated 7-9-2024 and received 7-9-2024, containing narrative, drainage maps, geotechnical report, HydroCAD report for the 2-year, 10-year, and 100-year rainfall events for proposed and existing conditions
- 6. WCA de minimis exemption application, dated 07-25-2024 and received 07-26-2024.
- 7. WCA utility exemption application, dated 07-25-2024 and received 07-26-2024.
- 8. Review file 22-250R

Findings:

- Description The project proposes to subdivide 8.3± acres from and existing 25.9± acre parcel to construct new townhouse development located in Forest Lake. The existing house and outbuildings totaling 1.6± acres of impervious surface will remain. The project will add 2.7 acres, for a total post developed impervious area of 4.3±. The project will disturb 6.9± acres overall. The project drains an existing private ditch that eventually drains to Clear Lake, the Resource of Concern. The applicant has submitted a \$3,000 application fee for a Rule C permit creating less than 5 acres of new and/or reconstructed impervious surface.
- 2. Stormwater The applicant is proposing the BMP as described below for the project:

Proposed BMP Description	Location	NURP requirement	Volume provided	EOF
NURP Pond	South of townhouses	31,267± cubic feet	81,488± cubic feet below the outlet	930.5

Soils on site are primarily HSG D consisting of sandy lean clays and clayey sand (CL & SC). Thus, infiltration is not considered feasible and NURP Pond is acceptable to meet the water quality requirement. Per Rule C.6(c)(1), the Water Quality requirement is 2.2-inches over the new/reconstructed area (2.73± acres), however NURP sizing criteria governs.

The pond sizing, and outlets and overflows are consistent with the design criteria of Rule C.9(d). The applicant has treated 94% of the project area. Additional TSS removal is not practicable. Otherwise, the applicant has met all the Water Quality requirements of Rule C.6 and the design criteria of Rule C.9(c).

Doint of Discharge	2-year (cfs)		10-year (cfs)		100-year (cfs)	
Point of Discharge	Existing	Proposed	Existing	Proposed	Existing	Proposed
To Northwest Ditch	23.8	17.1	42.0	29.5	82.8	57.3

The project is not located within the Flood Management Zone. The applicant has complied with the rate control requirements of Rule C.7.

The applicant has complied with the freeboard requirements of Rule C.9(g).

3. Wetlands —Wetlands were originally delineated under review files 15-144R with a boundary decision issued on 05-11-2016. This decision had expired, and wetlands were again delineated under review file 22-250R. A boundary decision was issued on 11-16-2022 and remains valid at the time of this permit application.

The project proposes permanent wetland impact for grading and a culvert crossing for a future trail extension and temporary wetland impact for utility installation. The applicant has submitted a de minimis exemption request for 775 ft² of impact and a utility exemption request for 4,500 ft². WCA rule 8420.0420 Subpart 1.C. precludes combining exemptions for a single project, however, the LGU

finds that the utility installation qualifies for temporary impact under no-loss criteria. A decision was issued for the de minimis exemption and no-loss temporary impact on 08-08-2024.

During application review, it was identified on aerial imagery that there is a potential unpermitted impact to Wetland 8. The applicant has agreed to voluntarily remove the fill and restore this impact. The applicant needs to provide documentation that the area has been restored prior to closure of the permit.

- 4. Floodplain The site is not in a regulatory floodplain.
- 5. <u>Erosion Control</u> Proposed erosion control methods include silt fence, a rock construction entrance, seeding and mulch, and rip rap. The project will disturb more than 1 acre; an NPDES permit is required. The SWPPP is located on plan sheets C5.1 & C5.2. The information listed under Rule D Erosion and Sediment Control section above must be submitted. Otherwise, the project complies with RCWD Rule D requirements. Clear Lake is an impaired water, but more than 1 mile downstream.
- 6. Regional Conveyances The property contains a drainage way that drains more than 200-acres. The project proposes to install a 30-inch RCP culvert for a trail crossing. The project matches the upstream 24-inch arch pipe (30-inch equivalent) to maintain hydraulic capacity. There is no existing navigational capacity. The project will not cause a sediment release or negatively water quality. The proposed culvert is sufficiently sized and does not reduce the hydraulic capacity of the channel.

Additionally, the project proposes sanitary and watermain crossings below the drainage way. The proposed utility crossing is located 6 feet below the ditch crossing. The project complies with Rule G.

- 7. Public Drainage Systems Rule I is not applicable.
- 8. <u>Documenting Easements and Maintenance Obligations</u> Applicant must provide a draft maintenance declaration for approval, and a receipt showing recordation of the approved maintenance declaration and the drainage and flowage easements (if required).
- 9. <u>Previous Permit Information</u> Review file 22-250R and permit 23-001.

08/06/2024

I assisted in the preparation of this report under the supervision of the District Engineer.

Belle Reeve, EIT

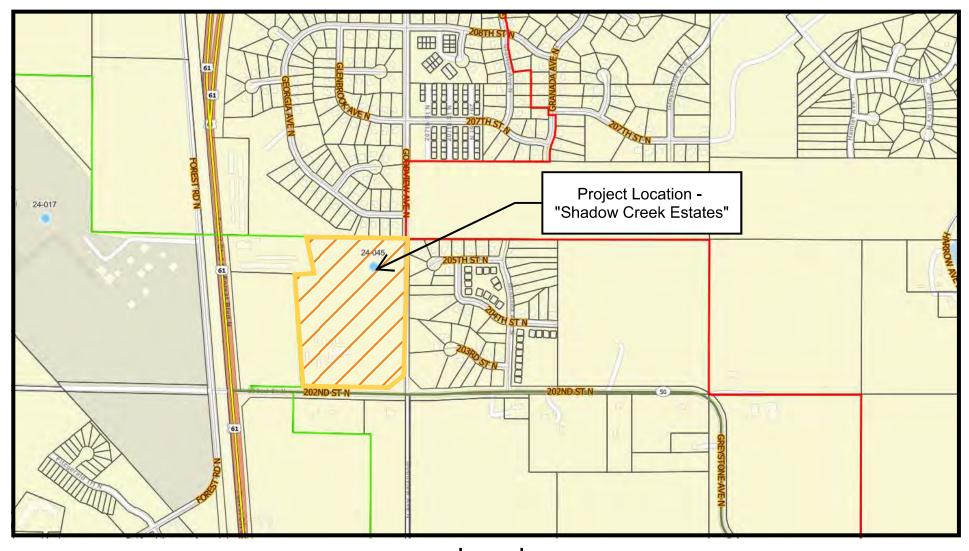
I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the state of Minnesota.

Katherine MacDonald, MN Reg. No 44590

K. har lonald



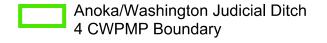
RCWD Permit File #24-045







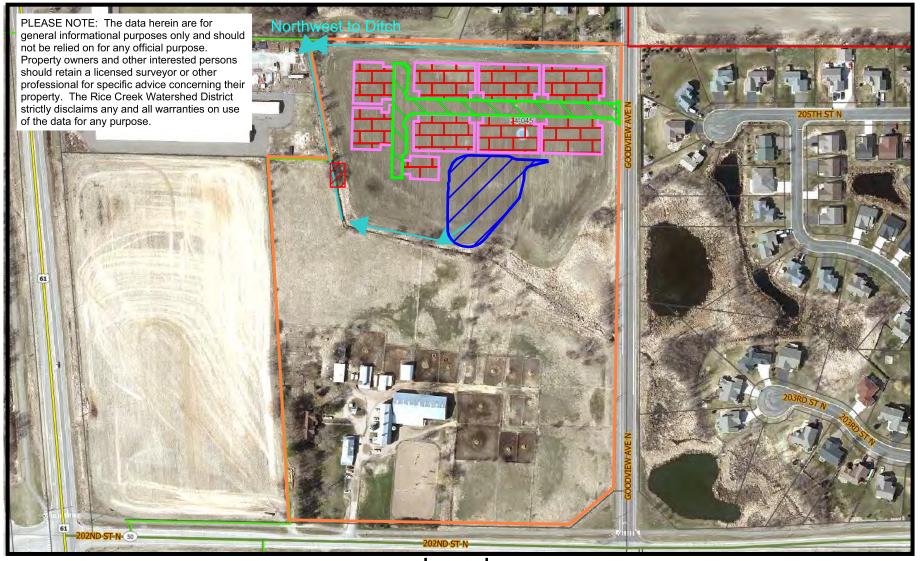








RCWD Permit File #24-045



Legend







WATER QUALITY GRANT PROGRAM COST SHARE APPLICATION (MOLLY NELSON)

No.	Applicant	Location	Project Type	Eligible Cost	Pollutant	Funding
					Reduction	Recommendation
R24-08	Chip Ahn &	White Bear	Concurrent	Ahn:	Volume:	Ahn: 50% cost share
	Travis Visser	Lake	Shoreline	\$10,254.00	28.2%	of \$5,127 not to
			Stabilization &	<u>Visser</u> :	TSS: 99.8%	exceed 50%; or
			Restoration	\$8,711.00	TP: 86%	\$7,500 whichever
						cost is lower
						Visser: 50% cost share
						of \$4,355.50 not to
						exceed 50%; or
						\$7,500 whichever
						cost is lower
R24-09	Timber Hills	White Bear	Rain garden	\$1,633.75	Volume: 46%	50% cost share of
	Beach	Lake			TSS: 46%	\$816.88 not to exceed
	Association				TP: 46%	50%; or \$7,500
						whichever cost is
						lower
R24-10	Silverthorn	Shoreview	Wetland Edge	\$1,882.15	Volume: 98%	50% cost share of
	Estates		Stabilization		TSS: 98%	\$941.08 not to exceed
					TP: 98%	50%; or \$7,500
						whichever cost is
						lower
W24-01	Christel	Forest	Prairie	\$7,385.77	Volume:	50% cost share of
	Johnson	Lake	Restoration		81.8%	\$3,692.88 not to
					TSS: 81.77%	exceed 50%; or
					TP: 81.8%	\$7,500 whichever
						cost is lower
W24-02	Forest Lake	Forest	Infiltration	\$27,585.59	Volume: 5	75% cost share of
	Area High	Lake	Basin		in/yr	\$7,500 not to exceed
	School/		Restoration		reduction	75%; or \$7,500
	Minnesota		and Prairie		TSS: 81 lbs/yr	whichever cost is
	Water		Conversion		reduction	lower
	Stewards				TP: 0.5 lbs/yr	

It was moved by Manager	and seconded by Manager		
, to approve the consent	agenda as outlined in the above Table of		
Contents in accordance with RCWD Outreach and Grants Technician's			
Recommendations dated August 7, 2024			

MEMORANDUM

Rice Creek Watershed District



To: RCWD Board of Managers

From: Molly Nelson, Outreach and Grants Technician

Subject: RCWD Water Quality Grant Program Application, R24-08 Ahn/ Visser Shoreline

Stabilization & Restoration

Introduction

R24-08 Ahn/Visser Shoreline Stabilization & Restoration

• Applicants: Chip Ahn & Travis Visser

•Location: 5515/5513 Bald Eagle Blvd, White Bear Lake

•Total Eligible Project Cost:

Ahn: \$10,254.00Visser: \$8,711.00

• RCWD Grant Recommendation:

Ahn: \$5,127.00Visser: \$4,355.50

Background

This application proposes a concurrent shoreline restoration project of two neighboring shorelines located on two residential properties in the City of White Bear Lake. The purpose of stabilizing and restoring these shorelines is to retain soil and to treat/filter pollutants from the source while diverting the water to infiltrate into the ground. This project will help with water quality and volume control for stormwater runoff into Bald Eagle Lake.

The Ramsey County Parks & Recreation Soil and Water Conservation Division (RCSWCD) created a design for the project and provided recommendations that have been included in the design. The project as proposed is designed to add rip rap for bioengineered stabilization along the water line of the shoreline, some re-grading above the rip rap and add a dense native planting buffer. RCWD staff is comfortable with the design presented in this application. The total catchment area for the project is 7,701 square feet. The estimated pollutant reductions for the proposed project are: 28.2% reduction in volume (462 cu-ft/yr), 99.8% reduction in total suspended solids (TSS) (1,226.6 pounds/year), and a 86% reduction in total phosphorus (TP) (1.01 pounds/ year). The project location scored a value of 18 on the Water Quality Grant Program Screening form and is eligible for the RCWD Water Quality Grant program.

The applicant obtained 2 bids for the project. The District will proceed with the lowest bid for the project upon approval of the application for cost-share.

Coldstone Shorelines & retaining Walls Inc.: Ahn: \$23,619.00 Visser: \$12,541.00

• Shoreline Landscaping: Ahn: \$10,254.00 Visser: \$8,711.00

The project application was discussed at the CAC meeting on August 7th. The CAC was supportive of the project and recommended it as presented. Motion carried 9-0.

MEMORANDUM Rice Creek Watershed District



Staff Recommendation

Based on the submitted application and program guidelines, RCWD staff support the project award of \$5,127.00 to the Ahn project and \$4,355.50 to the Visser project not to exceed 50% of eligible project expenses or \$7,500.00/property, whichever is less.

Request for Proposed Motion Manager _____ moves to authorize the Administrator, on advice of counsel, to approve the Water Quality Grant Contract of \$9,482.50 not to exceed 75% of eligible project costs or up to \$7,500.00 per property shoreline, whichever amount is lower, as outlined in the consent agenda and in accordance with the RCWD Staff's recommendation and established program guidelines.

Attachments

R24-08 Ahn/Visser Shoreline Stabilization & Restoration application supplemental documents.

Ramsey County Soil & Water Conservation Division



To: RCWD Advisory Committee

From: Nick Neylon: Environmental Resource Specialist

Date: 7/9/2024

Re: Ahn/Visser Cost Share Application

Project:

5515/5513 Bald Eagle Blvd White Bear Lake, MN 55110 Shoreline Stabilization & Restoration **Material & Labor Estimate Ahn:** \$10,254.00

Cost Share Request Ahn: \$5,127.00

Material & Labor Estimate Visser: \$8,711.00

Cost Share Request Visser: \$4,355.50

Background:

The proposed shoreline stabilization and restoration is located at two residential properties on Bald Eagle Lake. This project contains two applications for a project that spans two residential lots where both homeowners are stabilizing and planting shorelines concurrently. Currently, the shoreline has an open soil shoreline that is eroding into the lake. This shoreline is susceptible to larger erosion in the future, and lacks any natural lake edge function or habitat.

The proposed project is to add rip rap rock to properly stabilize the shoreline bank and to prevent further erosion. There will be minor re-grading above the rip rap and installation of an erosion control blanket on all the planting areas. Native plants will be used to retain soil and filter run off from the property. The project will stabilize the shoreline, create a buffer planting to stop sediment eroding into the lake, and filter the stormwater runoff from the property. The native planting will also provide pollinator habitat.

Total catchment area treated by the proposed project is 7,701 square feet (0.177 acres). It is 11% impervious and includes pavement and turf grass. Once established, this shoreline will reduce the erosion of the shoreline, as well as filter runoff from the site before it enters Bald Eagle Lake. It also will provide pollinator habitat and create a healthy and functioning lake edge environment.

Recommendation:

It is my recommendation that this project be awarded cost share in the amount of \$5,127 to the Ahn Project, and \$4,355.50 to the Visser Project or 50% of the eligible project costs, whichever is less.

Pollution Reductions:

	Before	After	Reduction	Red. %
Volume (cu-ft/yr)	1,634	1,172	462	28.2%
TSS (lbs/yr)	1240.6	14.0	1,226.6	99.8%
TP (lbs/yr)	1.89	.88	1.01	53.4%



PROPOSED PROJECTS

ID	PROJECT TYPE	SIZE [SQ-FT]	COST ESTIMATE	ESTIMATED GRANT AWARD	AFFECTED WATER BODY	CLEAN WATER BENEFIT
Α	SHORELINE STABILIZATION	668	\$10,254.00	\$5,127.00 [50%]	BALD EAGLE LAKE	SEDIMENT/PHOSPHOROUS
В	SHORELINE STABILIZATION	506	\$8,711.00	\$4,355.50 [50%]	BALD EAGLE LAKE	SEDIMENT/PHOSPHOROUS

LEGEND



SHORELINE **PLANTING**



RIP RAP ROCK



WATER FLOW

NOTES

CONCEPTUAL DRAWING FOR REFERENCE USE ONLY

- * DISCLAIMERS: 1. COST SHARE FUNDING UP TO 75%, CAPPED AT
- \$7,500 PER PROJECT
 2. COSTS AND PERCENTAGES ARE ESTIMATES.
 FUNDING IS DEPENDENT ON APPROVAL BY THE
- RCWD BOARD OF SUPERVISORS
 3. ESTIMATED COSTS BASED ON PROJECTS BEING COMPLETELY INSTALLED BY LANDSCAPE CONTRACTOR.



CLEAN WATER PLAN

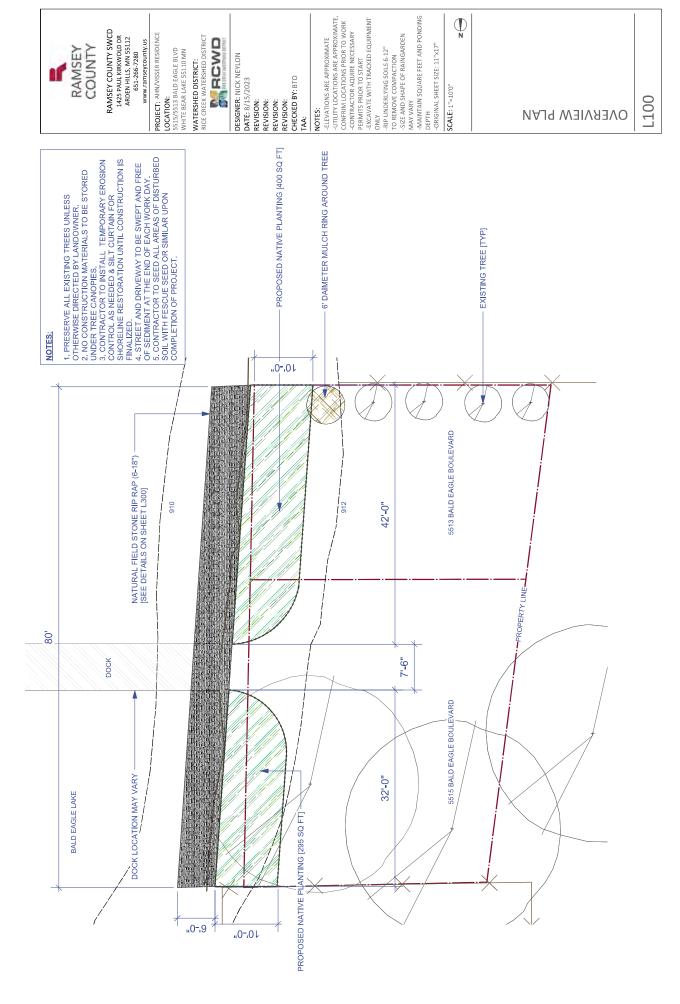
PROPERTY OWNER: AHN/VISSER RESIDENCES ADDRESS:

5515/5513 W Bald Eagle Blvd White Bear Lake, MN 55110

DATE: 07/10/2024 **CLEAN WATER PLAN PROVIDED BY:** RICE CREEK WATERSHED DISTRICT [RCWD] & RAMSEY COUNTY PARKS & RECREATION SOIL & WATER CONSERVATION DIVISION [SWCD]









Spacing (ft)

Size

Common Name

Latin Name

PLANT SCHEDULE

4" Pot 4" Pot 4" Pot 4" Pot 4" Pot 4" Pot 4" Pot

Anise Hyssop Bergemot Blue Flag Iris Mountain Mint

Iris versicolor ycnanthemum virginianum

Asclepias incarnata Echinacea purpurea

15 P32 P48 P93

Agastache foeniculun Monarda fistulosa

Latin Name

PLANT SCHEDULE

ģ

₽

Common Name

16-Bergemot

15-Swamp Milkweed

15-Meadow Blazing Star 14-Mountain Mint

13-Blue Flag Iris

Swamp Milkweed Purple Coneflower

ģ

₽

32 49

P24

4" Pot

Meadow Blazing Star

Calico Aster Lead Plant Swamp White Oal

Amorpha canescens

Quercus bicolor

TOTAL PLANTS

172

Aster lateriflorus Liatris ligulistylis

35 37

P16 P33 P94 P95

1-Swamp White Oak 18-Ohio Spiderwort

19-Calico Aster

20-Purple Coneflower

20-Lead Plant —

21-Anise Hyssop

4" Pot 4" Pot

Penn Sedge Fox Sedge Palm Sedge

4" Pot 4" Pot 4" Pot

1.5 1.5

Long Beaked Sedge Field Oval Sedge

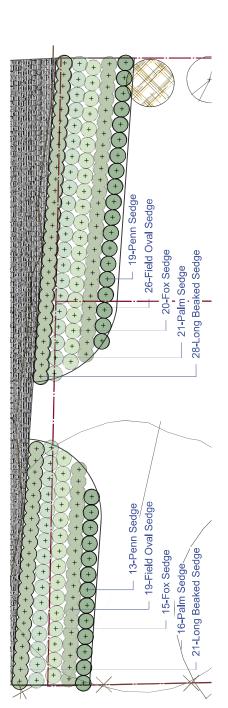
Carex muskingumensis Carex pensylvanica Carex vulpinoidea

Carex sprengelii Carex molesta

TOTAL PLANTS

45 198



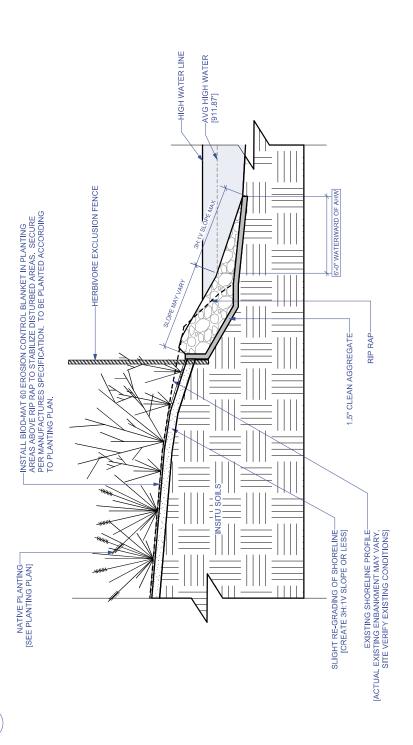


1. SEE PLANT SCHEDULE FOR PLANT SIZING AND SPACING. 2. VERIFY ANY NECESSARY PLANT SIZE OR SPECIES SUBSTITUTIONS WITH RAMSEY SWCD STAFF AND LANDOWNER PRIOR TO INSTALL.

L200

SHOKELINE





NOTES:

1. NEW RIP RAP TO BE 6-24" NATURAL FIELDSTONE ROCK, SIZE MAY VARY, VERIFY SIZING OPTIONS WITH RAMSEY COUNTY STAFF.

[FOLLOW NATURAL SHORE ALIGNMENT] 2. SLOPES NOT TO EXCEED 3:1

3. THE LARGEST ROCK OF THE RIP RAP SHOULD BE PLACED OVER THE TOE AND END TO ANCHOR THE INSTALLATION. BUMPED ROCK WILL BEST ADJUST ITSELF TO AN UNEVEN AREA. HAND PLACED ROCK IS EASILY DISRUPTED.

5. SLIGHTLY RE-GRADE AREA ABOVE RIP RAP. [3H:1V SLOPE 4. INSTALL FILTER/SETTING BED OF 1.5" CLEAN WASHED AGGREGATE [DO NOT USE LANDSCAPE FABRIC]

MAX] INSTALL BIOD-MAT 60 EROSION CONTROL BLANKET OR EQUIVALENT ON ALL PLANTING AREAS. PLANT WITH NATIVE

SPECIES. SEE PLANTING PLAN ON SHEET L200.

6. THE RIP RAP MUST BE NO MORE THAN 6 FEET WATERWARD OF THE AVGERAGE HIGH WATER LEVEL.

7. HERBIVORE EXCLUSION FENCE TO BE INSTALLED AROUND ENTIRE PERMETER OF NATIVE PLANTING. EXCLUSION FENCE TO REMAIN IN PLACE FOR 1-2 FULL GROWING SEASONS TO ALLOW PLANTS TO ESTABLISH.

SHORELINE SITE DETAILS:

-EXCAVATE WITH TRACKED EQUIPMENT ONLY -SIZE AND SHAPE MAY VARY -ORIGINAL SHEET SIZE: 11"x17"

SCALE:

CONFRIM LOCATIONS PRIOR TO WORK

-ELEVATIONS ARE APPROXIMATE

NOTES:

TAA:

CHECKED BY: BTO

-CONTRACTOR AQUIRE NECESSARY

PERMITS PRIOR TO START

5515/5513 WEST BALD EAGLE BLVD WHITE BEAR LAKE MN 55110

NATERSHED DISTRICT POCCESCUSION DEFINE

WATERSHED DISTRICT:

DESIGNER: NICK NEYLON DATE: 8/15/2023

REVISION: REVISION: REVISION: REVISION:

PROJECT: AHN/VISSER RESIDENCE

LOCATION:

www.ramseycounty.us

651-266-7280

RAMSEY COUNTY SWCD

RAMSEY COUNTY 1425 PAUL KIRKWOLD DR ARDEN HILLS, MN 55112

L300





ALL ITEMS AS SPECIFIED BELOW ARE FOR REFERENCE USE ONLY

Ahn Residence

5515 Bald Eagle Blvd

White Bear Township, MN 55110

BMP Type: Shoreline Stabilization and Native Planting

Number of BMPs: 1 of 1

County: Ramsey Date: 15-Aug-23

MATERIALS						
Item	Qty	Unit		Unit Cost		Amount
Aggregate: Fieldstone Boulder (6"-18")	14.00	TON	\$	240.00	\$	3,360.00
Aggregate: Clear Rock- 1-1/2"	6.00	TON	\$	190.00	\$	1,140.00
EC Blanket: CM4000, Bio D Mat 60, Cocomat 600, or equal (6.5' x 165')	380.00	SF	\$	2.25	\$	855.00
Note: Install per manufacture specs, use biodegradable stakes						
Sediment Control - Silt curtain or approved equivalent	60.00	LF	\$	13.00	\$	780.00
Silt Curtain (36") (incl. cable ties and 2" x 2" x 48" hardwood stakes 10' O.C.)						
Native Plant: 4" Cont	208.00	EA	\$	9.50	\$	1,976.00
Herbivore Exclusion Fence (4' vinyl-coated wire; T-Posts 10' O.C.)	90.00	LF	\$	4.00	\$	360.00
Site Restoration (repair any turf damage to landscape outside project area)	1.00	LS	\$	200.00	\$	200.00
Mobilization	1.00	LS	\$	600.00	\$	600.00
Site Prep (removal of existing vegetation - water safe herbicide application if necessary)	1.00	LS	\$	250.00	\$	250.00
Deliveries	3.00	EA	\$	125.00	\$	375.00
Grading (shoreline shaping)	2.00	CY	\$	60.00	\$	120.00
Disposal / Soil Haul-away (material from clearing vegetation and minor grading)	1.00	CY	\$	55.00	\$	55.00
				Subtotal	\$	10,071.00

ADD/DEDUCT BID ITEMS (AS NECESSARY)		
[1]	-	\$ -
2]	-	\$ -
3]	-	\$ -
41	-	\$ -
5]	-	\$ -
\$	-	\$ -
	Subtotal ["]	\$ -

PROJECT TOTAL

Project Estimate	\$ 10,071.00
:-10%	\$ 9,063.90
:+10%	\$ 11,078.10

Estimated WD/WMO Grant Award: \$5,035.50
Estimated BEAA Grant Award: TBD
Potential Grant Award Total: \$5,035.50
Estimated Landowner Cost: \$5,035.50





ALL ITEMS AS SPECIFIED BELOW ARE FOR REFERENCE USE ONLY Visser Residence 5513 Bald Eagle Blvd White Bear Township, MN 55110 BMP Type: Shoreline Stabilization and Native Planting County: Ramsey Number of BMPs: 1 of 1 15-Aug-23 Date: **MATERIALS Unit Cost** Item Qty Unit Amount Aggregate: Fieldstone Boulder (6"-18") 9.00 TON \$ 240.00 2,160.00 Aggregate: Clear Rock- 1-1/2" 3.50 TON \$ 190.00 665.00 \$ EC Blanket: CM4000, Bio D Mat 60, Cocomat 600, or equal (6.5' x 165') 315.00 SF \$ 708.75 2.25 \$ Note: Install per manufacture specs, use biodegradable stakes Sediment Control - Silt curtain or approved equivalent 45.00 LF \$ 13.00 585.00 Silt Curtain (36") (incl. cable ties and 2" x 2" x 48" hardwood stakes 10' O.C.) Native Plant: 4" Cont \$ 162.00 EΑ 9.50 1,539.00 Native Tree: 10 Gallon 1 **EACH** \$ 200.00 \$ 200.00 Herbivore Exclusion Fence (4' vinyl-coated wire; T-Posts 10' O.C.) 90.00 LF \$ 360.00 4.00 \$ Site Restoration (repair any turf damage to landscape outside project area) LS 1.00 \$ 200.00 \$ 200.00 LS 1.00 \$ 600.00 \$ 600.00 Site Prep (removal of existing vegetation - water safe herbicide application if necessary) LS 250.00 1.00 \$ 250.00 \$ Deliveries 3.00 EΑ \$ 125.00 \$ 375.00 Grading (shoreline shaping) 2.00 CY 60.00 120.00 \$ \$ Disposal / Soil Haul-away (material from clearing vegetation and minor grading) CY 55.00 1.00 55.00 \$ \$ Subtotal \$ 7,817.75 ADD/DEDUCT BID ITEMS (AS NECESSARY) \$ \$ 2] \$ \$ 3] \$ \$ \$ \$ 5] \$ \$ 61 \$ Subtotal \$ PROJECT TOTAL

	:+10%	\$ 8,599.53
E	Estimated WD/WMO Grant Award:	\$3,908.88
	Estimated BEAA Grant Award:	TBD
	Potential Grant Award Total:	\$3,908,88

Project Estimate

:-10%

Estimated Landowner Cost:

7,817.75 7,035.98

\$3,908.88

Riprap Estimate

Date: 6/17/24

To: Chip Ahn

5515 Bald Eagle Blvd White Bear, MN 55110

<u>Description</u>	Ramsey Unit	ts Actual Units	Ramsey Cost	Actual Cost					
Ramsey County Parks Estimate 6-18" fieldstone									
Aggregate fieldstone	14-ton	30 ton	\$4,548	\$9,745					
Aggregate clear rock	6 ton		\$1,458	same					
Coconut matting & stakes	380 sf		\$346	same					
Sediment control	60 lf		\$350	same					
2 options									
 Native plant – based on 3 	.5" pot 208	plants	\$2,192	same					
- Native plant – bases on 6	pack 208	plants	\$1,360	same					
Herbivore exclusion fence with t-p	osts 90 lf	•	\$463	same					
Site restoration/plywood & plastic	matting path 1	job	\$2,200	same					
Mobilization	1 job		\$750	same					
Site prep/soil haul off			\$150						
- 1.8 cubic yards of concre	te			\$270					
- 4.7 cubic yards of soil				\$700					
Ramsey County Estimate using 6-18" fieldstone \$11,625 - \$12,457									
Cold Stone Estimate using 6-18" fieldstone \$17,642 - \$18,474									

Note: deduct \$700 from plywood sheeting. Split cost with neighbor on plywood access path. : deduct \$375 from mobilization. Split cost with neighbor.

<u>Description</u>	<u>Units</u>	Cost
6"-48" Fieldstone Coconut matting & stakes Sediment control Native plant – bases on 6 pack Herbivore exclusion fence with t-posts	50 lf 380 sf 60 lf 208 plants 90 lf	\$15,500 \$346 \$350 \$1,360 \$463
Site restoration/plywood & plastic matting path Mobilization Site prep/soil haul off - 13 cubic yards of concrete - 4.7 cubic yards of soil	1 job 1 job	\$2,200 \$750 \$1,950 \$700
Total Estimated Project Cost using large boulders		\$23,619

The first estimate is based on using the 6-18 fieldstone material Ramsey County spec'd, showing quantity and plant pricing differences.

The figures include labor and material to complete each individual activity listed above. Per our conversation I believe Ramsey County could be a bit low with their stone volume estimate. Please see attached sheet for calculations. I came up with more like 30 tons of 6-18" material. After speaking with Nick Neylon this morning, he is assuming the existing concrete can stay. I agree for the most part, except for the upper most rubble above the waterline and possibly the larger slabs.

The logistics of the project are a bit complicated. There is really no area where the materials can be dumped and stockpiled. My thought is to build a plywood path, 2 layers thick, from the road to the work location. With the goal to drive the truck near the shore to deliver and haul out materials. We would also sheet our normal work area to prevent damage to the existing landscape. Because of the access, only small loads could be delivered. A total of 7 stone deliveries and perhaps 1 maybe 2 rubble haul outs. Because of the multiple trips the cost per ton of material delivered is higher and is reflected in the material prices.

I prefer to remove the existing sod rather than poison the lawn to kill the vegetation. Also, there is a minimal soil ridge currently, which in my opinion should be removed. Especially, because this is a one-time project. There are 2 options for plants. The only difference being the size. Nick didn't care which plant size we used when I spoke with him about it.

The final estimate is based on using larger material. Fieldstone ranging in size from 6-48", which includes the crushed aggregate clear filter rock. The only other difference being all the concrete material would need to be removed if we went this route. When setting the stones, I continually make height adjustments and the concrete debris tends to not allow me to properly embed the stones and thus make the height adjustments.

Please find a list of local references I attached below. They can speak to the quality and craftsmanship of the work we do. If you have any questions regarding this proposal, please feel free to reach out. Thank you for taking the time to meet with me and look forward to your decision.

Ben Andreski Civil Engineer Cold Stone Shorelines and Retaining Walls Inc.

Local References

- Ryan & Molly Lake 5329 Bald Eagle Blvd W White Bear, MN 55110 (702) 556-7463
- 2. Ellen Donaldson 5301 Bald Eagle Blvd W White Bear, MN 55110 (973) 476-2026
- Nita Byers
 5392 Bald Eagle Blvd E
 White Bear, MN 55110
 (651) 323-7520
- 4. John Cretzmeyer 5590 Bald Eagle Blvd W White Bear, MN 55110 (612) 804-4268
- Sunday & Bob Hoy
 5560 Bald Eagle Blvd W
 White Bear, MN 55110
 (612) 867-9748
- 6. Joel and Jennifer Anderson 5858 Hobe Court East White Bear, MN 55110 (612) 324-3918
- 7. Holly Zoborowski 5697 Orchard Ave White Bear, MN 55110 (651) 492-3150

Riprap Estimate

Date: 6/17/24

To: Visser Residence

5513 Bald Eagle Blvd White Bear, MN 55110

Description Ramsey County Parks Estimate 6-	Ramsey Units -18" fieldstone	Actual Units	Ramsey Cost	Actual Cost
Aggregate fieldstone Aggregate clear rock Coconut matting & stakes Mulch Sediment control 2 options Native plant – based on 3	9 ton 3.5 ton 315 sf 1 job 45 lf 3.5" pot 208 pla	18 ton	\$2,924 \$851 \$287 \$75 \$350 \$1,707	\$5,848 same same
 Native plant – based on 3 Native plant – bases on 6 Oak tree Herbivore exclusion fence with t-j Site restoration/plywood & plastic Mobilization Site prep/soil haul off 1.1 cubic yards of concreted 3.7 cubic yards of soil 	ints	\$1,707 \$1,060 \$500 \$463 \$1,400 \$350 \$150	same same same same same same	
Ramsey County Estimate using 6- Cold Stone Estimate using 6-18"	\$8,410 - \$9,057 \$11,894 - \$12,54	41		

COLD STONE SHORELINES & RETAINING WALLS INC

This estimate is based on using the 6-18 fieldstone material Ramsey County spec'd, showing quantity and plant pricing differences. Figures include labor and material to complete each individual activity listed above. I believe Ramsey County could be a bit low with their stone volume estimate. After speaking with Nick Neylon this morning, he is assuming the existing concrete can stay. I agree for the most part, except for the upper most rubble above the waterline and possibly the larger slabs.

The logistics of the project are a bit complicated. There is really no area where the materials can be dumped and stockpiled. My thought is to build a plywood path, 2 layers thick, from the road to the work location. With the goal to drive the truck near the shore to deliver and haul out materials. We would also sheet our normal work area to prevent damage to the existing landscape. Because of the access, only small loads can be delivered. A total of 3 stone deliveries and 1 rubble haul out. Because of the multiple trips the cost per ton of material delivered is higher and is reflected in the material prices.

I prefer to remove the existing sod rather than poison the lawn to kill the vegetation. Also, there is a minimal soil ridge currently, which in my opinion should be removed. Especially, because this is a one-time project. There are 2 options for plants. The only difference being the size. Nick didn't care which plant size we used when I spoke with him about it.

Please find a list of local references I attached below. They can speak to the quality and craftsmanship of the work we do. If you have any questions regarding this proposal, please feel free to reach out. Thank you for taking the time to meet with me and look forward to your decision.

Ben Andreski Civil Engineer Cold Stone Shorelines and Retaining Walls Inc.

Local References

- Ryan & Molly Lake
 5329 Bald Eagle Blvd W
 White Bear, MN 55110
 (702) 556-7463
- Ellen Donaldson
 5301 Bald Eagle Blvd W
 White Bear, MN 55110
 (973) 476-2026
- Nita Byers
 5392 Bald Eagle Blvd E
 White Bear, MN 55110
 (651) 323-7520
- 4. John Cretzmeyer 5590 Bald Eagle Blvd W

23110 St. Croix Trail Scandia, MN 55073 CELL (651) 330-8783 OFFICE (651) 433-4333

COLD STONE SHORELINES & RETAINING WALLS INC

White Bear, MN 55110 (612) 804-4268

- Sunday & Bob Hoy
 5560 Bald Eagle Blvd W
 White Bear, MN 55110
 (612) 867-9748
- 6. Joel and Jennifer Anderson 5858 Hobe Court East White Bear, MN 55110 (612) 324-3918
- 7. Holly Zoborowski 5697 Orchard Ave White Bear, MN 55110 (651) 492-3150





Shoreline Landscaping Bid

ALL ITEMS AS SPECIFIED BELOW A	ARE FOR REFERE	ENCE USE ONLY	,				
Ahn Residence 5515 Bald Eagle Blvd White Bear Township, MN 55110 BMP Type: Shoreline Stabilization and Native Planting Number of BMPs: 1 of 1				(County: Date:		
MATER	IAI S						
Item	Qty	Unit		Unit Co	st	Amount	<u> </u>
Aggregate: Fieldstone Boulder (6"-18")	14.00	TON	\$	120.00	-	\$1680.00	_
Aggregate: Clear Rock- 1-1/2"	6.00	TON	\$	90.00	_	\$ 540.00	-
EC Blanket: CM4000, Bio D Mat 60, Cocomat 600, or equal (6.5' x 165')	380.00	SF	\$	1.00	_	\$ 380.00	_
Note: Install per manufacture specs, use biodegradable stakes	000.00	0.	Ψ			V	
Sediment Control - Silt curtain or approved equivalent Silt Curtain (36") (incl. cable ties and 2" x 2" x 48" hardwood stakes 10' O.C.)	60.00	LF	\$	15.00	-	\$ 900.00	-
Native Plant: 4" Cont	208.00	EA	\$	18.00	_	\$ 3744.00	_
Herbivore Exclusion Fence (4' vinyl-coated wire; T-Posts 10' O.C.)	90.00	LF	\$	3.00	_	\$ 270.00	_
Site Restoration (repair any turf damage to landscape outside project area)	1.00	LS	\$	600.00	-	\$ 600.00	-
Mobilization	1.00	LS	\$	500.00	-	\$ 500.00	-
Site Prep (removal of existing vegetation - water safe herbicide application if necessary)	1.00	LS	\$	600.00	-	\$ 600.00	-
Deliveries	3.00	EA	\$	200.00	-	\$ 600.00	-
Grading (shoreline shaping)	2.00	CY	\$	70.00	-	\$ 140.00	-
Disposal / Soil Haul-away (material from clearing vegetation and minor grading)	1.00	CY	\$	300.00	-	\$ 300.00	-
				8	Subtotal	\$ 10,254.00) -
ADD/DEDUCT BID ITEM	IS (AS NECES	SSARY)					
1]			\$		-	\$	-
2] 3]			\$ \$		-	\$	-
4]			э \$		-	\$ \$	-
5]			\$			\$ \$	-
6]			\$			\$ \$	-
o _j			Ψ	5	Subtotal		-
PROJECT	TOTAL						
Shoreline Landscaping					stimate	#REF! 10,254	.00
29159 Ivywood Trail				:-10%		\$ 9,228.60	-
Chisago Ćity, MN 55013				:+10%		\$11,279.40	-
651-257-2655		Estimated V	/D/W	MO Grant	Award:		\$0.00
stephan@shorelinelandscaping.net		Estima	ted B	EAA Grant	Award:		TBD
		Poter	tial G	Frant Award	l Total:		\$0.00

\$0.00

Estimated Landowner Cost:





ALL ITEMS AS SPECIFIED BELOW ARE FOR REFERENCE USE ONLY

Visser Residence 5513 Bald Eagle Blvd

White Bear Township, MN 55110

BMP Type: Shoreline Stabilization and Native Planting

Number of BMPs: 1 of 1

County: Ramsey Date: 15-Aug-23

MATER	IALS				
Item	Qty	Unit	Unit Cost	Amount	
Aggregate: Fieldstone Boulder (6"-18")	9.00	TON	\$ 120.00 -	\$ 1080.00	-
Aggregate: Clear Rock- 1-1/2"	3.50	TON	\$ 90.00 -	Φ	-
EC Blanket: CM4000, Bio D Mat 60, Cocomat 600, or equal (6.5' x 165')	315.00	SF	\$ 1.00 -	Φ 045.00	-
Note: Install per manufacture specs, use biodegradable stakes					
Sediment Control - Silt curtain or approved equivalent	45.00	LF	\$ 15.00 -	\$ 675.00	-
Silt Curtain (36") (incl. cable ties and 2" x 2" x 48" hardwood stakes 10' O.C.)					
Native Plant: 4" Cont	162.00	EA	\$ 18.00 -	Ψ 2010.00	-
Native Tree: 10 Gallon	1	EACH	\$ 400.00	\$ 400.00	-
Herbivore Exclusion Fence (4' vinyl-coated wire; T-Posts 10' O.C.)	90.00	LF	\$ 3.00 -	Ψ 210.00	-
Site Restoration (repair any turf damage to landscape outside project area)	1.00	LS	\$ 600.00	ψ 000.00	-
Mobilization	1.00	LS	\$ 500.00	\$ 500.00	-
Site Prep (removal of existing vegetation - water safe herbicide application if necessary)	1.00	LS	\$ 600.00 -	Ψ 000.00	-
Deliveries	3.00	EA	\$ 200.00 -	Ψ 000.00	-
Grading (shoreline shaping)	2.00	CY	\$ 70.00 -	\$ 140.00	-
Disposal / Soil Haul-away (material from clearing vegetation and minor grading)	1.00	CY	\$ 300.00 -	\$ 300.00	-
			Culet	-t-I (*	

Subtotal \$8,711.00

ADD/DEDU	CT BID ITEMS (AS NECESSARY)	

ı	41	¢	Ф	
ı	ניין	Ф	Φ	-
	2]	5 -	\$	-
	3]	\$ -	\$	-
ı	4]	\$ -	\$	-
ı	5]	\$ -	\$	-
ı	6]	\$ -	\$	-
١		Subtota	al \$	-
1				

PROJECT TOTAL

Shoreline Landscaping 29159 Ivywood Trail Chisago City, MN 55013

651-257-2655 stephan@shorelinelandscaping.net

Project Estimate	#REF! 8,711.00
:-10%	\$ 7,839.90 ⁻
400/	_m 1,009.90

7,839.90 :+10% \$ 9,582.10 -

Estimated WD/WMO Grant Award: \$0.00
Estimated BEAA Grant Award: TBD

Potential Grant Award Total: \$0.00
Estimated Landowner Cost: \$0.00

Rice Creek Watershed District



Date: August 7th, 2024

To: RCWD Board of Managers

From: Molly Nelson, Outreach and Grants Technician

Subject: RCWD Water Quality Grant Program Application, R24-09 Timber Hills Beach

Association Raingardens

Introduction

R24-09 Timber Hills Beach Association Raingardens

- Applicant: Timber Hills Beach Association
- Location: 5963 Hobe Lane, White Bear Lake
- Total Eligible Project Cost: \$1,633.75
- RCWD Grant Recommendation: \$816.88 (50%)

Background

This application proposes a rain garden project that is on a residential property in the City of White Bear Lake. The purpose of installing a rain garden is to collect the stormwater runoff from the property and adjacent area to treat/filter pollutants from the source while diverting the water to infiltrate into the ground. This project will help with water quality and volume control for stormwater runoff into Bald Eagle Lake.

The Ramsey County Parks & Recreation Soil and Water Conservation Division (RCSWCD) created a design for the project and provided recommendations that have been included in the design. The project as proposed is designed to install a dense matrix of aggressive native plants to overtake invasive plants that have degraded the basin's capacity to treat stormwater runoff on this joint shoreline area. RCWD staff is comfortable with the design presented in this application. The total catchment area for the project is 37,239 square feet. The estimated pollutant reductions for the proposed project are: 46% reduction in volume (18,992 cu-ft/yr), 46% reduction in total suspended solids (TSS) (65 pounds/year), and a 46% reduction in total phosphorus (TP) (0.35 pounds/ year). The project location scored a value of 19 on the Water Quality Grant Program Screening form and is eligible for the RCWD Water Quality Grant program.

The applicant will conduct the labor for the project; therefore, the District will base the cost-share amount off the RSWCD cost estimate of \$1,633.75 provided in the application documentation.

The project application was discussed at the CAC meeting on August 7th. The CAC was supportive of the project and recommended it as presented. Motion carried 9-0.

Staff Recommendation

Based on the submitted application and program guidelines, RCWD staff support the project award of \$816.88 not to exceed 50% of eligible project expenses or \$7,500.00, whichever is less.

Request for Proposed Motion

Manager _____ moves to authorize the Administrator, on advice of counsel, to approve the Water Quality Grant Contract R24-09 of \$816.88 not to exceed 50% of eligible project costs or up to



Rice Creek Watershed District

\$7,500.00, whichever amount is lower, as outlined in the consent agenda and in accordance with the RCWD Staff's recommendation and established program guidelines.

Attachments

R24-09 Timber Hills Beach Association Rain Garden application supplemental documents.

Ramsey County Soil & Water Conservation Division



To: RCWD Advisory Committee

From: Nick Neylon: Environmental Resource Specialist

Date:7/19/2024

Re: Timber Hills Beach Association Cost Share Application

Project:

5963 Hobe Lane White Bear Township, MN 55110 Raingarden

Background:

The proposed raingarden restoration project is located at a joint shoreline area in White Bear Lake. Currently, the raingarden is not functioning very well as a result of reduced vegetation and invasion by undesireable species.

Material & Labor Estimate: \$1633.75

Cost Share Request: \$816.88

The proposed project is to revamp a raingarden to collect runoff from landscape and hardscape drainage and plant native trees to replace EAB losses. A dense installation of native plants will be used to retain soil filter run off from the property, and create a dense matrix of vegetation to exclude invasive plants. The project will intercept runoff headed towards Bald Eagle Lake, decreasing volume, TPP and TSS from entering the Lake. It will also provide pollinator resources with a native planting.

Total catchment area treated by the proposed project is 37,239 square feet (.85 acres). It is 35% impervious and includes roof, roads, driveways, and turf grass.

Recommendation:

It is my recommendation that this project be awarded cost share in the amount of \$816.88, or 50% of total project costs, whichever is less.

Pollution Reductions:

	Before	After	Reduction	Red. %
Volume (cu-ft/yr)	41,033	22,037	18,992	46%
TSS (lbs/yr)	140	75	65	46%
TP (lbs/yr)	.77	.42	.35	46%



PROPOSED PROJECTS

ID	PROJECT TYPE	SIZE [SQ-FT]	COST ESTIMATE	ESTIMATED GRANT AWARD	AFFECTED WATER BODY	CLEAN WATER BENEFIT
Α	RAINGARDEN	715	\$913	\$456.50 [50%]	BALD EAGLE LAKE	VOL./SEDIMENT/PHOSPHOROUS
С	TREE REPLACEMENT (4)	-	\$720	\$360 [50%]	BALD EAGLE LAKE	VOL./SEDIMENT

LEGEND PROPOSED TREE RAINGARDEN CONTOUR LINE (2') WATER FLOW

CLEAN WATER PLAN

PROPERTY OWNER: TIMBER HILLS BEACH ASSOCIATION ADDRESS: 5963 HOBE LANE MUITE DEAD TOMMOUID MAN EE110

DATE: 07/10/2024 **CLEAN WATER PLAN PROVIDED BY:** RICE CREEK WATERSHED DISTRICT [RCWD] & RAMSEY COUNTY SOIL & WATER

NOTES

CONCEPTUAL DRAWING FOR REFERENCE USE ONLY

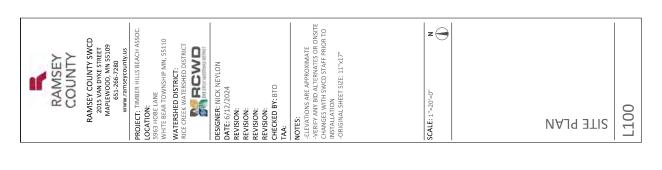
*** DISCLAIMERS:

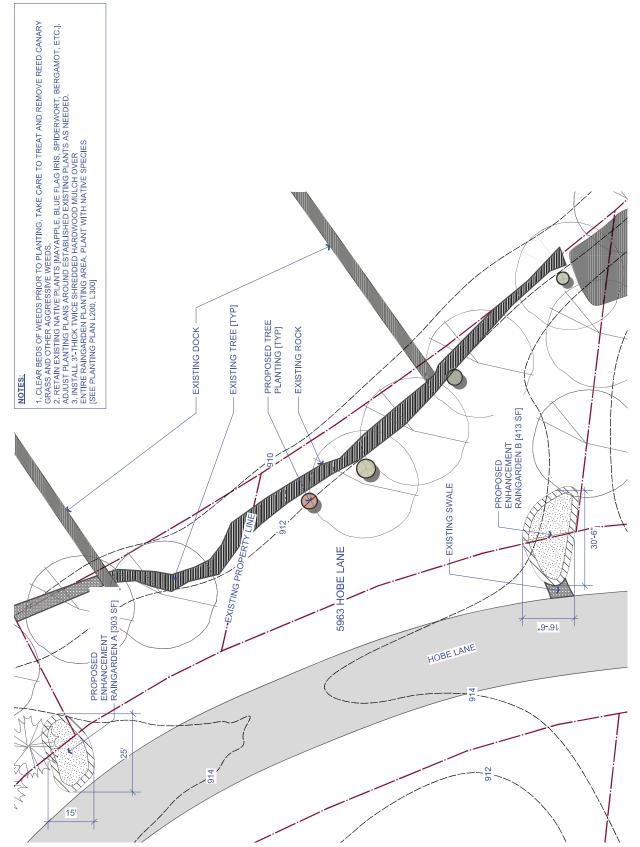
1. COST SHARE FUNDING UP TO 75%,
CAPPED AT \$7,500 PER YEAR

2. COSTS AND PERCENTAGES ARE
ESTIMATES. FUNDING IS DEPENDENT
ON APPROVAL BY THE RCWD BOARD
OF SUPERVISORS











RAINC	SARDE	RAINGARDEN A SEASONAL INTEREST PLANT SCHEDULE	PLANT SCHEDULE
۵	Q Ç	Latin Name	Common Name
F29	9	Veronicastrum virginicum	Culver's Root
F42	12	Eupatorium purpureum	дое-Руе Weed
F57	9	Liatris pycnostachya	Prairie Blazing Star
F64	2	Thalictrum dioicum	Early Meadow Rue
F92	9	Geranium maculatum	Wild Geranium
F133	9	Physostegia virginiana	Obedient Plant
	41	TOTAL PLANTS	

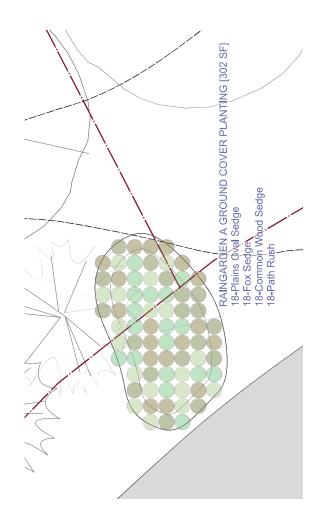
12-Joe-Pye Weed

/6-Wild Geranium 5-Early Meadow Rue

6-Cullver's Root 6-Obedient Plant

6-Prairie Blazing Stary

1. PLANT SEASO PLANTING PLAN. 2. PLANT GROUND INTEREST PLANTS. 3. ADJUST PLANTIN 4. PLANTS TO BE 2 PLANTS TO BE 2	NATIVE PLANTING NOTES.			
2. PLANTING 2. PLANT G INTEREST 3. ADJUST 4. PLANTS PLANT PLU	SEASONAL	INTEREST	PLANTS A	1. PLANT SEASONAL INTEREST PLANTS ACCORDING TO
INTEREST I 3. ADJUST I 4. PLANTS	PLAN. GROUND COVE	R LAYER IN	GRID ARO	PLANTING PLAN. 2. PLANT GROUND COVER LAYER IN GRID AROUND SEASONAL
4. PLANTS	INTEREST PLANTS. 3. ADJUST PLANTING AROUND EXISTING DESIREABLE PLANTS.	UND EXISTI	NG DESIRE	ABLE PLANTS.
	4. PLANTS TO BE 2" PLUG PLANT PLLIGS 18-24" O.C.	S OR APPR	OVED EQU	4. PLANTS TO BE 2" PLUGS OR APPROVED EQUIVALENT SIZING. PI ANT PI HGS 18-24" O C
5. VERIFY /	ANY REQUIRED	PLANT SUE	SITUTIONS	5. VERIFY ANY REQUIRED PLANT SUBSITUTIONS WITH RCSWCD STAFF PRIOR TO PURCHASE AND INSTALLATION.





PLANT SEASONAL INTEREST PLANTS ACCORDING TO PARTING PLANT
 PLANT GROUND COVER LAYER IN GRID AROUND SEASONAL INTEREST PLANTS.
 3. ADUST PLANTING AROUND EXISTING DESIREABLE PLANTS.
 4. PLANTS TO BE 2" PLUGS OR APPROVED EQUIVALENT SIZING. PLANTS TO BE 2" PLUGS OR APPROVED EQUIVALENT SIZING. PLANT PLUGS 18" ANY REQUIRED PLANT SUBSTITITIONS WITH ROSANCD STAFF PRIOR TO PURCHASE AND INSTALLATION.

NATIVE PLANTING NOTES:



	Name fistulosa m virginicum	Common Nar Bergamot
6 6 6	fistulosa m virginicum	Bergamot
12 6 6 6	m virginicum	
6 6		Culver's Roc
12 6 6	purpureum	Joe-Pye Wee
9	m virginianum	Mountain Mir
9		Queen of the Pr
	erfo iatum	Cup Plant
F133 12 Physostegia virginiana	a virginiana	Obedient Pla
60 TOTAL PLANTS	TIS STI	

6-Joe-Pye Weed 6-Culver's Root

Plant

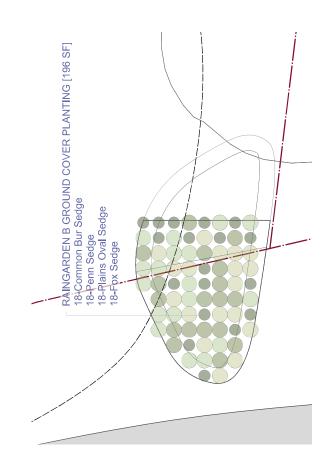
6-Obedient

6-Mountain Mint

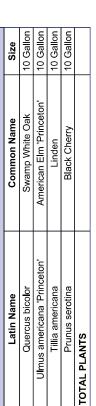
6-Queen of the Prairie 6-Obedient Plant 6-Cup Plant

6-Mountain Mint

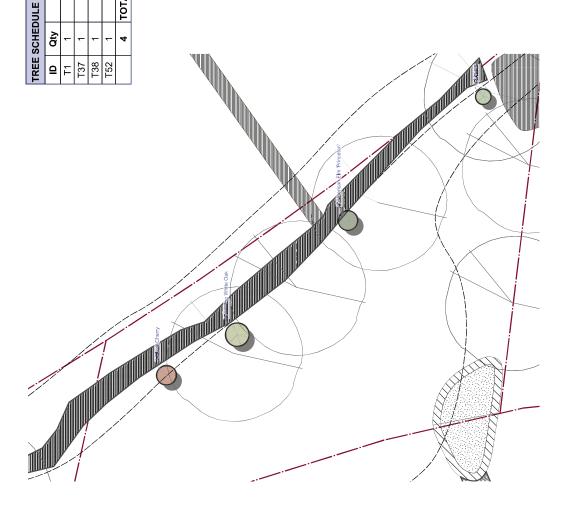
6-Bergamot 6-Culver's Root







IKEE PLANING NOTES:	
1. ALL STOCK TO BE 10 GALLON POTTED OR EQUIVALENT.	
2. USE THE BOX CUT TECHNIQUE OR SIMILAR TO REMOVE	
ENCIRCLING ROOTS.	
3. IDENTIFY AND EXPOSE THE FIRST MAIN ORDER ROOT, PLANT	
TREE WITH FIRST MAIN ORDER ROOT VISIBLE.	
4. MULCH TREES WITH 3"-6" OF MULCH IN A MINIMUM 3"	
DIAMETER RING.	
5. VERIFY ANY REQUIRED PLANT SUBSITUTIONS WITH RCSWCD	
STAFF PRIOR TO PURCHASE AND INSTALLATION.	
6. LOCATIONS ARE APPROXIMATE AND MAY BE ADJUSTED ON	
	_





ALL ITEMS A	S SPECIFIED BE	LOW ARE F	OR REFERENCE	E USE ONLY
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Timber Hills Beach Association

5963 Hobe Lane

White Bear Lake MN, 55110

BMP Type: Raingarden Enhancement

Number of BMPs: 1 of 1

County: Date:

Ramsey 23-Apr-24

INSTALLED MATERIALS & LABOR - RAINGARDEN ENHANCEMENT					
Item	Qty	Unit		Unit Cost	
Twice Shredded Hardwood Mulch (MnDot Type 6 Mulch)	7.25	CY	\$	50.00	\$

Amount 362.50 Native Perennial: 2" Plug; or equivalent \$ 2.25 \$ 551.25 245.00 EΑ Native Tree: 10 gallon Potted \$ 720.00 4.00 EΑ 180.00 \$

Subtotal \$ 1,633.75

INSTALLED MATERIALS & LABOR - ADDITIONAL ITEMS AS NECESSARY

\$ \$ \$ Subtotal \$

\$816.88

\$0.00

PROJECT TOTAL

Project Estimate	\$ 1,633.75
:-10%	\$ 1,470.38
·+10%	\$ 1 797 13

Estimated WD/WMO Grant Award:

Estimated RCPR Grant Award:

Potential Grant Award Total: \$816.88 Estimated Landowner Cost: \$816.88

> Soil & Water Conservation Division 2015 Van Dyke Street Maplewood, MN 55109 www.ramseycounty.us

Rice Creek Watershed District



Date: August 7th, 2024

To: RCWD Board of Managers

From: Molly Nelson, Outreach and Grants Technician

Subject: RCWD Water Quality Grant Program Application, R24-10 Silverthorn Estates

Wetland Edge Stabilization

Introduction

R24-10 Wetland Edge Stabilization

Applicant: Silverthorn Estates (Stepan and Oleska)

Location: 1256/1254 Silverthorn Drive, Shoreview

Total Eligible Project Cost: \$1,150.75

RCWD Grant Recommendation: \$575.38 (50%)

Background

This application proposes a wetland edge restoration project that is on a residential property in the City of Shoreview. The purpose of restoring the shoreline along this wetland area is to reduce erosion and invasive plant takeover of the area, increase infiltration of stormwater volume, filter pollutants from the stormwater that ultimately drains to Rice Creek through RCD1, and restore the wetland shoreline to its natural state.

The Ramsey County Parks & Recreation Soil and Water Conservation Division (RCSWCD) created a design for the project and provided recommendations that have been included in the design. The project as proposed is designed to install a matrix of aggressive native plants to stabilize the area and prevent invasive plants from degrading the landscape on the applicant's property. RCWD staff is comfortable with the design presented in this application. The total catchment area for the project is 6,227 square feet. The estimated pollutant reductions for the proposed project are: 98% reduction in volume (793.51 cu-ft/yr), 98% reduction in total suspended solids (TSS) (12.25 pounds/year), and a 98% reduction in total phosphorus (TP) (0.78 pounds/ year). The project location scored a value of 17 on the Water Quality Grant Program Screening form and is eligible for the RCWD Water Quality Grant program.

The applicant will conduct the labor to complete this project, therefore, the District will proceed with the RSWCD cost estimate of \$1,150.75 to determine the cost-share of the project.

The project application was discussed at the CAC meeting on August 7th. The CAC was supportive of the project and recommended it as presented. Motion carried 9-0.

Staff Recommendation

Based on the submitted application and program guidelines, RCWD staff support the project award of \$941.08 not to exceed 50% of eligible project expenses or \$7,500.00, whichever is less.

Request for Proposed Motion

Manager _____ moves to authorize the Administrator, on advice of counsel, to approve the Water Quality Grant Contract R24-10 of \$941.08 not to exceed 50% of eligible project costs or up to



Rice Creek Watershed District

\$7,500.00, whichever amount is lower, as outlined in the consent agenda and in accordance with the RCWD Staff's recommendation and established program guidelines.

Attachments

Water Quality Grant R24-10 application items.

Ramsey County Soil & Water Conservation Division



To: RCWD Advisory Committee

From: Nick Neylon: Environmental Resource Specialist

Date: 7/19/2024

Re: Silverthorn Estates: Stepin and Oleska

Project:

1256 Silverthorne Drive/1254 Silverthorn Drive Shoreview, MN 55126 Wetland Edge Stabilization

Material & Labor Estimate: \$1,882.15

Cost Share Request: \$941.08

Background:

The proposed shoreline restoration project is located at a joint shoreline area in Shoreview. Currently, the the shoreline is unvegetated with the threat of encrochment by hybrid catails, reed canary grass, and other invasive species.

The proposed project is to plant the wetland edge, and supply temporary erosion control while the added plantings establish. A dense installation of aggresive native plants will be used to retain soil, filter run off from the property, and create a matrix of vegetation to exclude invasive plants. The project will intercept runoff headed towards a wetland area that drains in Turtle Lake, decreasing volume, TPP and TSS. It will also provide pollinator resources with a native planting.

Total catchment area treated by the proposed project is 6,227 square feet (.14 acres). It is 49% impervious and includes roof, roads, driveways, and turf grass.

Recommendation:

It is my recommendation that this project be awarded cost share in the amount of \$941.08 or 50% of total project costs, whichever is less.

Pollution Reductions:

	Before	After	Reduction	Red. %
Volume (cu-ft/yr)	803.10	9.589	793.51	98%
TSS (lbs/yr)	12.30	.05	12.25	98%
TP (lbs/yr)	.79	.01	.78	98%

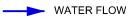


PROPOSED PROJECTS

ID	PROJECT TYPE	SIZE [SQ-FT]	COST ESTIMATE	ESTIMATED GRANT AWARD	AFFECTED WATER BODY	CLEAN WATER BENEFIT
Α	NATIVE PLANTING	3327	\$1,150.75	\$575.38 [50%]	TURTLE LAKE	SEDIMENT/PHOSPHOROUS

LEGEND







CLEAN WATER PLAN

PROPERTY: SILVERTHORN ESTATES ADDRESS: 1256/1254 SILVERTHORN DRIVE SHOREVIEW, MN 55126

DATE: 07/11/2024 **CLEAN WATER PLAN PROVIDED BY:** RICE CREEK WATERSHED DISTRICT [RCWD] & RAMSEY COUNTY SOIL & WATER CONSERVATION DIVISION [RC SWCD]

NOTES

CONCEPTUAL DRAWING FOR REFERENCE USE ONLY

REFERENCE USE ONLY

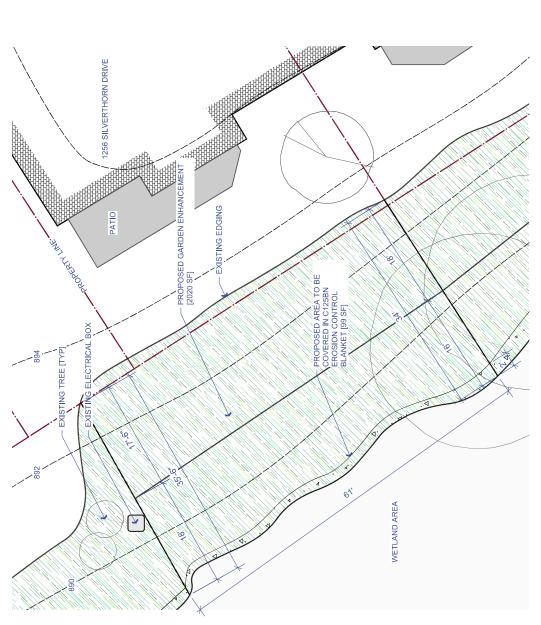
* DISCLAIMERS:

1. COST SHARE FUNDING UP TO 75%,
CAPPED AT \$7,500 PER PROJECT

2. COSTS AND PERCENTAGES ARE
ESTIMATES, FUNDING IS DEPENDENT
ON APPROVAL BY THE RCWD BOARD
OF SUPERVISORS







-VERIFY ANY BID ALTERNATES OR ONSITE

CHANGES WITH SWCD STAFF PRIOR TO INSTALLATION

-CONTACT GOPHER STATE ONE CALL TO

NOTES:

TAA:

RAMSEY COUNTY SWCD 2015 VAN DYKE STREET MAPLEWOOD, MN 55109

RAMSEY COUNTY www.ramseycounty.us

651-266-7280

PROJECT: STEPIN RESIDENCE

LOCATION: 1256 SILVERTHORN DRIVE SHOREVIEW MN, 55126 WATERSHED DISTRICT: PRICE CONTRACTOR

DESIGNER: NICK NEYLON DATE: 5/1/2024

REVISION: 6/21/2024

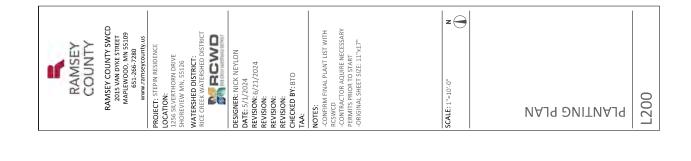
CHECKED BY: BTO

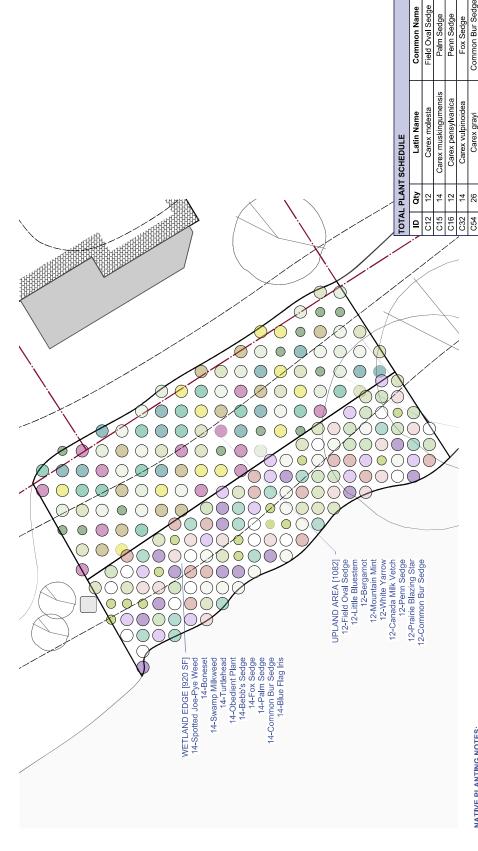
REVISION: REVISION: REVISION:

PROJECT NOTES:

- 1. REMOVE INVASIVE VEGETATION BEFORE ADDING ADDITIONAL PLANTS. IDENTIFIED INVASIVE PLANTS INCLUDE: OXEYE DAISY, DAMES ROCKET, REED CANARY GRASS, HYBRID CATTALLS, GARLIC MUSTARD, ETC. USE IDENTIFICATION APP OR PRINT RESOURCES TO STAY AHEAD OF INVASIVE PLANTS.
 2. FOR TREATMENT OF DIFFICULT WEEDS, USE TRICLOPYR 3 (FOR AQUATIC USE), OR GLYPHOSATE 5.4 (FOR AQUATIC USE). THESE FORMULATIONS DO NOT CONTAIN SURFACTANTS WHICH ARE HAZARDOUS FOR
 - AQUATIC LIFE.
 - 3. INSTALL TWICE SHREDDED HARDWOOD MULCH OVER PLANTING AREA EXCEPT AREA ALONG WATER'S EDGE.
 3. INSTALL TWICE SHREDDED HARDWOOD MULCH OVER SLOPED AREAS DIRECTLY NEXT TO SHOREINE AS SHOWN ON PLAN, MUST BE NATURAL FIBER BLANKET. NO PHOTODEGRADABLE BLANKET ALLOWED,
 4. INSTALL NATURAL EROSION CONTROL BLANKET OR APPROVED EQUIVALENT. INSTALL BLANKET AS INSTRUCTED BY MANUFACTURER WITH BIODEGRADABLE STAKES.
 6. PRESERVE ALL EXISTING TREES & SHRUBS UNLESS OTHERWISE DIRECTED BY LANDOWNER.
 7. CAUTION SHOULD BE TAKEN WITH HYBRID CATAIL DEVELOPMENT SO NEW PLANTS ARE NOT OVERWHELMED. CONTINUE TO MANAGE CATTAILS AS PLANTING DEVELOPS.

z 🖯 -ORIGINAL SHEET SIZE: 11"x17" SCALE: 1"=10'-0" L100 **SITE PLAN**





1. INSTALL 11-2" TWICE SHREDDED HARDWOOD MULCH OVER PLANTING AREA AS POSSIBLE WITH EXISTING PLANTS. EXCEPT AREA ADJACENT TO THE WATER. APPLY EXOSION CONTROL BLANKET TO AREA ADJACENT THE WATER. EROSION BLANKET WILL BE STAKED TO THE SOIL AND IS MEANT TO PREVENT EROSION WHILE PLANTS ESTABLISH GROUND COVER. NATIVE PLANTING NOTES:

Spotted Joe-Pye Weer

Eupatorium maculatum Pycnanthemum virginianu Astragalus candensis

Canada Milk Vetch

Blue Flag Iris

Bergamol

Monarda fistulosa

12 4 12

> F23 F44

F50

ris versicolor

Prairie Blazing Star

Liatris pycnostachya

Achillea millefolium Asclepias incarnata

Mountain Mint

Swamp Milkweed

Turtlehead

White Yarrow

Obedient Plant Little Bluestem

Schizachyrium scoparium

12 248

69

TOTAL PLANTS

Boneset

Eupatorium perfoliatum Physostegia virginiana

F107 F133

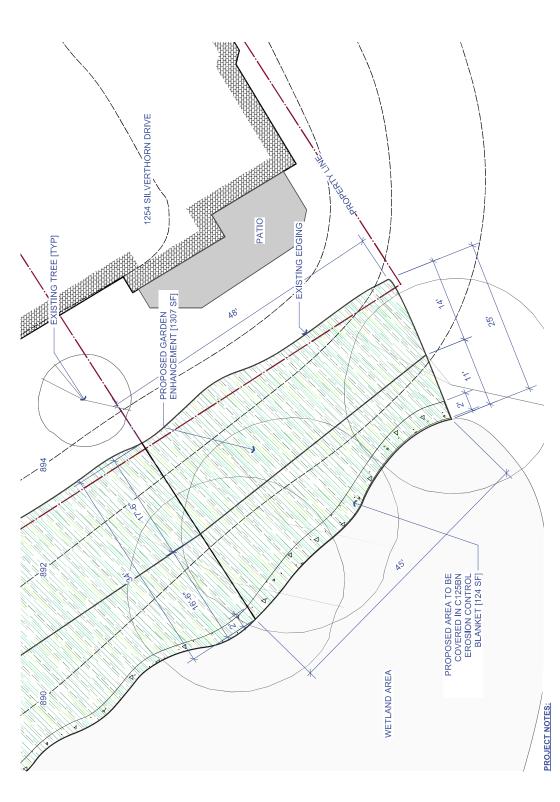
F85

Chelone oglabra

4 4 4 4

3. ALL PLANTS TO BE 2" PLUGS OR SIMILAR.

2. PLANTING PLAN IS FOR REPRESENTATION ONLY, FILL GAPS IN CURRENT PLANTING WITH NEW PLANTS. PLANT NEW PLANTS IN GROUPS OF 3-6 BY SPECIES. PLANT 12"-24" APART



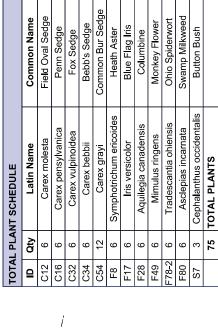
1. REMOVE INVASIVE VEGETATION BEFORE ADDING ADDITIONAL PLANTS. IDENTIFIED INVASIVE PLANTS INCLUDE: OXEYE DAISY, DAMES ROCKET, REED CANARY GRASS, HYBRID CATTALLS, GARLIC MUSTARD, ETC. USE IDENTIFICATION APP OR PRINT RESOURCES TO STAY AHEAD OF INVASIVE PLANTS.
2. FOR TREATMENT OF DIFFICULT WEEDS, USE TRICLOPYR 3 (FOR AQUATIC USE), OR GLYPHOSATE 5.4 (FOR AQUATIC USE). THESE FORMULATIONS DO NOT CONTAIN SURFACTANTS WHICH ARE HAZARDOUS FOR

AQUATIC LIFE

3. INSTALL TWICE SHREDDED HARDWOOD MULCH OVER PLANTING AREA EXCEPT AREA ALONG WATER'S EDGE.
4. INSTALL TWICE SHREDDED HARDWOOD MULCH OVER SLOPED AREAS DIRECTLY NEXT TO SHORMN ON PLAN, MUST BE NATURAL FIBER BLANKET. NO PHOTODEGRADABLE BLANKET ALLOWED,
4. INSTALL NATURAL EROSION CONTROL BLANKET OR APPROVED EQUIVALD STATALL BLANKET AS INSTRUCTED BY MANUFACTURER WITH BIODEGRADABLE STAKES.
6. PRESERVE ALL EXISTING TREES & SHAUBS UNLESS OTHERWISE DIRECTED BY LANDOWNER.
7. CAUTION SHOULD BE TAKEN WITH HYBRID CATALL DEVELOPMENT SO NEW PLANTS ARE NOT OVERWHELMED. CONTINUE TO MANAGE CATTALLS AS PLANTING DEVELOPS.







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TSO SFI N Section Il S	hio Spiderwort 6-Heath Aster
558 SFJ Flower Illiweed Flower Illiweed Flower Illiweed Flower Illiweed Flower Flower Flower Sedge Sedge Sedge Sedge G-Fleid Oval Sedge G-Common Bur Sedge G-Common Bur Sedge G-Common Bur Sedge	6-Ohio Sp 6-Hee
WETLAND EDGE [558 SF] - G-Monkey Flower 6-Swamp Milkwed 6-Blue Flag ins 6-Fox Sedge 6-Common Bur Sedge 6-Bebb's Sedge	

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