



ADMINISTRATIVE OFFICE: 3235 Fernbrook Lane N • Plymouth, MN 55447
763.553.1144 • Fax: 763.553.9326

October 14, 2022

Representatives
Pioneer-Sarah Creek Watershed
Management Commission
Hennepin County, Minnesota

*The meeting packet for this meeting
may be found on the Commission's website:
[http://www.pioneersarahcreek.org/minutes--
meeting-packets.html](http://www.pioneersarahcreek.org/minutes--meeting-packets.html)*

Dear Representatives:

A regular meeting of the Pioneer-Sarah Creek Watershed Management Commission will be held Thursday, October 20, 2022, at 6:00 p.m. This will be an **in-person** meeting held at Maple Plain City Hall, 5050 Independence Street, Maple Plain, MN.

A light supper will be served. **RSVPs are requested** so that the appropriate amount of food is available. At the time of your response, please let us know if you will be eating supper with us.

In order to ensure a quorum for the regular meeting, please telephone 763.553.1144 or email me at amy@jass.biz to indicate if you or your Alternate will be attending. It is your responsibility to ascertain that your community will be represented at the meeting

Regards,

Amy A. Juntunen, Administrator
AAJ:tim

cc: Alternates
Paul Stewart, Kris Guentzel, HCEE
Brian Vlach, TRPD
Joel Jamnik, Attorney

Andrew Vistad, Hakanson-Anderson
City Clerks MPCA
Met Council BWSR
official newspapers DNR

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REGULAR MEETING AGENDA

October 20, 2022 • 6:00 p.m.

The meeting packet can be found on the Commission's website:

<http://pioneersarahcreek.org/pages/Meetings/>

1. Call to Order.
2. Approve Agenda.*
3. Consent Agenda.
 - a. September meeting minutes.*
 - b. October Claims/Treasurer's Report.*
4. Open forum.
5. Action Items.
 - a. 2019-008 Adams Pest Control, Medina.*
 - b. 2022-012 Bridgevine, Independence.*
 - c. Olsen Manure Bunker CIP Application and Funding Request.*
 - d. McCombs Project Increased Funding Request*
6. Old Business.
7. New Business.
8. Watershed Management Plan.
9. Education.
10. Grant Updates.
11. Communications.
12. Staff Reports.
 - a. Engineer's Report.*
 - b. HCEE Report.
 - c. TRPD Report.
13. Commissioner Reports.
14. Other Business.
15. Adjournment. (Next scheduled meeting: November 17, 2022). Z:\Pioneer-SarahCreek\Meetings\Meetings 2022\10 agenda.docx



ADMINISTRATIVE OFFICE: 3235 Fernbrook Lane N • Plymouth, MN 55447
763.553.1144 • Fax: 763.553.9326 • amy@jass.biz • www.pioneersarahcreek.org

REGULAR MEETING

Minutes

September 15, 2022

1. CALL TO ORDER. A regular meeting of the Pioneer-Sarah Creek Watershed Management Commission was called to order by Chair Joe Baker at 6:01 p.m., Thursday, September 15, 2022, at Maple Plain City Hall, 5050 Independence Street, Maple Plain, MN.

Present: Mark Workcuff, Greenfield; Joe Baker, Independence; Brenda Daniels, Loretto; Caitlin Cahill, Maple Plain; Pat Wulff, Medina; John Tschumperlin, Minnetrista; Kris Guentzel, Hennepin County Environment and Energy (HCEE); Brian Vlach, Three Rivers Park District (TRPD); Andrew Vistad, Hakanson-Anderson; and Amy Juntunen, JASS.

Also present: Scott Johnson, Medina.

2. AGENDA. Motion by Wulff, second by Daniels to approve the agenda* as presented. *Motion carried unanimously.*

3. CONSENT AGENDA. Motion by Cahill, second by Tschumperlin to approve the Consent Agenda as presented.

a. **August Regular Meeting Minutes.***

b. **September Treasurer's Report/Monthly Claims *** totaling \$9,192.17.

OPEN FORUM.

4. ACTION ITEMS.

a. **2022-013 Promise Hill Residence, Independence.*** This is a single-home re-development. An existing large home on the property will be demolished and a new home built. This project will disturb over 1.5 acres and is being reviewed for erosion and sediment control only. Staff recommends approval with no contingencies.

Motion by Workcuff, second by Daniels to approve project 2022-13 as presented. *Motion carried unanimously.*

b. **2022-14 Hidden Lake Channel Excavation, Independence.*** This is a privately-funded project to excavate channels permitted by DNR on the west side of Lake Independence 50-60 years ago to allow landowners lake access. This project is to remove roughly 1.5 ft of sediment over 1,100 feet of channel. The DNR area hydrologist designated where the spoils can be placed outside the floodplain. Silt curtain will be used in the water during excavation and silt fence will be installed around the spoils deposit. This project is not expected to have an impact on nutrients within the lake, even though sediment is being removed due to the fact that buried is sediment becoming exposed. Staff recommends approval of this project with no contingencies. The applicant and City are responsible for securing WCA and Army Corps of Engineers (ACOE) permitting.

Motion by Daniels, second by Wulff to approve project 2022-14 as presented. *Motion*

Greenfield • Independence • Loretto • Maple Plain • Medina • Minnetrista

* Included in meeting packet.

carried unanimously.

c. 2022-15 Schaffer Residence, Greenfield.* This is a single-family home on Hafften Lake in Greenfield. The resident would like to flatten a portion of the lot resulting in over one acre of disturbance. Silt fence will be provided downstream from all grading activities. Staff recommends approval with no contingencies.

Motion by Workcuff, second by Cahill to approve project 2022-15 as presented. *Motion carried unanimously.*

d. 2022-16 West Lindgren Channel Excavation, Independence.* This project is just to the south of the channel excavation previously approved as project 2022-14 and is similar, though the spoils location has not yet been designated. The same contractor is performing both channel excavations. Staff recommends approval contingent on sediment location review and approval by the DNR area hydrologist.

Motion by Wulff, second by Daniels to approve project 2022-16 with one contingency as noted above. *Motion carried unanimously.*

5. OLD BUSINESS.

6. NEW BUSINESS.

7. WATERSHED MANAGEMENT PLAN.

8. EDUCATION.

9. GRANT UPDATES.

a. Whaletail South Alum Treatment CWF Grant.* Included in the meeting packet is the grant application and supporting documentation submitted by Vlach on behalf of the Commission on August 19. The grant request totals \$405,000 with a Commission match of \$101,250. Grants are generally awarded in December or January and will be executed in April 2023 if awarded. Prior to any application, TRPD will test to determine if sodium aluminate is required. A Cooperative Agreement between the funding partners will be created for this project if the grant is awarded.

10. COMMUNICATIONS.

11. STAFF REPORTS.

a. Engineer's Report.* A project review was received for the Bridgevine development in Independence a few weeks ago. The site includes a gully on site identified in the Lake Independence SWA. The developer is not planning on any improvements to the gully and is routing stormwater from the site to the onsite gully as well as the Baker Park Ravine gully. Vistad expressed concern that the proposed development is directing stormwater toward the onsite gully which would result in additional erosion and nutrient loading to Lake Independence. The preference is for the developer to fix or alleviate the current erosion problem, not contribute to it. Part of this development will also flow to the recently restored Baker Park ravine. Vlach noted that the Baker Park ravine could likely handle the additional volume without issue. The soils in the area are not conducive to infiltration. Commissioner Wulff noted that the

onsite gully is between the lakeshore and proposed homes. Homeowners using ATVs or other ways to get across the ravine could also cause damage/erosion leading to higher nutrient load to Lake Independence. Any modifications to the gully would need to be permitted by the ACOE. The developer for this project is pushing hard to get the project approved ASAP and already has construction equipment on site. Staff will continue to review changes and expects to bring this project review before the Commission at the October meeting. Any increase in nutrient export from the site is a violation of Commission rules and will not be recommended for approval. Staff will work with the developer.

Three other project reviews are currently outstanding and should be on the October agenda as well.

b. HCEE Report.* HCEE has posted the position vacated by Paul Stewart today and hopes to fill the position prior to year-end. Operations and Maintenance agreements are being finalized for the McCombs and White projects.

The County is opening Natural Resources Grants this fall. These grants were not available last year. The application period will be open from the end of September through Thanksgiving. The County will host a few workshops to answer questions about this program. These are 75% grants with 25% match of cash or in-kind for water quality or habitat restoration. The grants are available up to \$25,000 for farm, shoreline, raingarden, or wetland projects. Buckthorn removal can be included as part of this type of grant but cannot be the entire project.

c. TRPD Report. Water quality monitoring season is wrapping up. There will be two more lake sampling weeks. Stormwater sampling will continue until the freeze. The drought has resulted in a smaller than usual number of samples for the year.

Vegetation surveys have been completed on all lakes in the area and a complete zebra mussel survey was completed on the Lake Independence shoreline showing mussels growing on plants and affecting plant growth. Based on the data, it appears Lake Independence will not meet water quality standards for 2022, though it did meet standards for the past three years. Low water levels aren't helping the water quality.

Sediment cores will be taken on Lake Sarah this winter from both the east and west basins at a cost of \$12,000. TRPD will likely analyze the cores in-house. Turion samples will be taken this fall as well.

Water quality in Lake Ardmore is also lower than recent years. Carp populations will be evaluated. Vegetation growth was not as good in 2022.

12. COMMISSIONER REPORTS.

a. Baker will attend the Lake Sarah Improvement Association (LSIA) meeting next Monday to work with new LSIA board members and provide education. There is a nice follow-up piece re the crappie kill on www.lakesarah.com. It appears that a combination of conditions like low oxygen, warm temperatures, bacteria present and weaker/younger fish were responsible for the crappie kill.

Paul Steward surveyed the Lake Sarah weir before leaving his position, but the survey was

very inconsistent with past information. A second survey will be done. The DNR area hydrologist provided information to Baker on potential flexible structure options. Many owners are removing their watercraft from the lake early due to fear of low water making removal impossible later.

b. **Wulff.** Lake Independence is also experiencing low water levels. A vegetation survey was performed by Carolyn Dindorf. The spiny water flea survey was not performed. Medina Celebration is this Saturday, September 17 at the Hamel Park. The Lake Independence Citizens Association (LICA) picnic will be held at the Baker Park pavilion on September 24. Wulff will be staffing a table for LICA and the Commission at the picnic. Wulff will open her home to hosting an open house for Cahill tomorrow evening.

c. **Cahill** noted that Highway 12 is at least partially reopened and construction in Maple Plain should be completed soon. Tomorrow is Movie in the Park at Veterans Memorial Park at 7:30 p.m.

d. **Tschumperlin** reported that Minnetrista will be bonding \$8 million for road construction and may be restructuring its assessment policy. Currently curb and gutter are not assessed, only the actual road.

e. **Workcuff.** Greenfield is in the budget process and considering a fairly large increase due to fuel, supply chain and transportation cost increases. Councilman Michael Erickson passed away unexpectedly on September 3. There are four candidates for two Council seats in Greenfield this November.

13. **OTHER BUSINESS.**

The **next regular meeting** is scheduled for October 19, 2022 at Maple Plain City Hall.

14. **ADJOURNMENT.** There being no further business, motion by Workcuff, second by Wulff to adjourn. *Motion carried unanimously.* The meeting was adjourned at 7:21 p.m.

Respectfully submitted,



Amy Juntunen
Administrator
AAJ:tim

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Pioneer-Sarah Creek Watershed
Income Statement
Compared with Budget
For the Nine Months Ending September 30, 2022

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	Current Month Actual	Year to Date Actual	Year to Date Budget	Year to Date Variance
Revenues				
Member Dues	\$ 0.00	\$ 103,800.00	\$ 103,800.00	0.00
Project Review Fees	3,550.00	28,012.00	4,500.00	23,512.00
CIP Income	0.00	28,000.00	28,000.00	0.00
Grant-FY21 WS-Based Funding	0.00	0.00	135,584.00	(135,584.00)
Interest and Dividend Income	1,312.38	4,410.28	1,094.99	3,315.29
Total Revenues	4,862.38	164,222.28	272,978.99	(108,756.71)
Expenses				
Engineering/Consulting	3,831.25	19,089.01	24,375.00	5,285.99
Administrative Expense	2,145.01	14,652.06	27,000.00	12,347.94
Adm-Project Reviews	285.91	1,141.21	562.50	(578.71)
Adm-CIP Mgmt	0.00	0.00	750.00	750.00
Adm - Tech Support	0.00	0.00	562.50	562.50
Legal Expense	0.00	31.00	375.00	344.00
Audit Expense	0.00	4,700.00	4,500.00	(200.00)
Insurance	2,930.00	3,187.00	2,800.00	(387.00)
Website	0.00	301.90	1,125.00	823.10
TAC Meetings	0.00	789.60	1,875.00	1,085.40
Education	0.00	626.75	0.00	(626.75)
HCEE Outreach	0.00	4,182.13	0.00	(4,182.13)
Grant-FY21 WS-Based Funding	0.00	22,117.00	0.00	(22,117.00)
Total Expenses	9,192.17	70,817.66	63,925.00	(6,892.66)
Net Income	(\$ 4,329.79)	\$ 93,404.62	\$ 209,053.99	115,649.37

Pioneer-Sarah Creek Watershed
Balance Sheet
August 31, 2022

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ASSETS

Current Assets		
Cash-4M Fund	\$	716,228.05
Accounts Receivable		<u>20,228.21</u>
Total Current Assets		<u>736,456.26</u>
Total Assets	\$	<u><u>736,456.26</u></u>

LIABILITIES AND CAPITAL

Total Liabilities		0.00
Capital		
Next Generation Plan Fund	\$	25,000.00
Retained Surplus		316,725.29
CIP Fund		154,404.56
Grant fund - Watershed Based		142,592.00
Net Income		<u>97,734.41</u>
Total Capital		<u>736,456.26</u>
Total Liabilities & Capital	\$	<u><u>736,456.26</u></u>

**Pioneer-Sarah Creek Watershed
Cash Disbursements Journal
For the Period From Oct 1, 2022 to Oct 31, 2022**

Filter Criteria includes: Report order is by Date. Report is printed in Detail Format.

Date	Check #	Account ID	Line Description	Debit Amount	Credit Amount
10/20/22		50100	Project Review Hilltop Prairie	157.50	
		50100	Project Review Creekside Meadows	367.50	
		50100	Project Review Pioneer Highlands	1,575.00	
		50100	Project Review Adams Pest Control	1,627.50	
		50100	Project Review Bridgevine Subdivision	315.00	
		50100	General Engineering	943.75	
		10100	Hakanson Anderson Associates, Inc.		4,986.25
10/20/22		51100	Administration	1,020.12	
		51100	Meeting-related	754.88	
		51100	Bookkeeping	223.35	
		51400	Website	17.50	
		51120	Project Review Support	193.94	
		57000	Education	32.25	
		10100	Judie Anderson's Secretarial Service		2,242.04
10/20/22		57004	Grant Writing	398.75	
		10100	Stantec Consulting Services, Inc.		398.75
Total				7,627.04	7,627.04

INVOICE SUMMARY FROM HAKANSON ANDERSON

PIONEER SARAH WATERSHED MANAGEMENT COMMISSION

INVOICES FOR AUGUST 2022

Project ID & Description	Invoice Number	Invoice Date	Amount
PSC209 2022-03 HILLTOP PRAIRIE	49335	09/26/22	157.50
PSC211 2022-06 CREEKSIDE MEADOWS	49336	09/26/22	367.50
PSC212 2022-10 PIONEER HIGHLANDS	49337	09/26/22	1,575.00
PSC213 2019-08 ADAMS PEST CONTROL	49338	09/26/22	1,627.50
PSC214 2022-12 BRIDGEVINE SUBDIVISION	49339	09/26/22	315.00
PSC901-2022 GENERAL ENGINEERING FOR PIONEER SARAH WMC 2022	49340	09/26/22	943.75
			4,986.25



3601 Thurston Avenue
Suite 101
Anoka, MN 55303

Pioneer Sarah Watershed Management Commission
3235 Fernbrook Lane
Plymouth, MN 55447

Invoice number 49335
Date 09/26/2022

Project **PSC209 2022-03 HILLTOP PRAIRIE**

Professional Services Provided Through 08/31/2022

2022-03 HILLTOP PRAIRIE

MUNICIPAL REVIEW

Professional Fees

	Date	Hours	Rate	Billed Amount
Andrew Vistad <i>BUILDING LOW FLOOR QUESTIONS</i>	08/18/2022	1.50	105.00	157.50
PROFESSIONAL FEES SUBTOTAL				157.50
MUNICIPAL REVIEW SUBTOTAL				157.50
AMOUNT DUE THIS INVOICE				157.50

Invoice Summary	Current Billed	Prior Billed	Total Billed
Total	157.50	2,070.00	2,227.50



3601 Thurston Avenue
Suite 101
Anoka, MN 55303

Pioneer Sarah Watershed Management Commission
3235 Fernbrook Lane
Plymouth, MN 55447

Invoice number 49336
Date 09/26/2022

Project **PSC211 2022-06 CREEKSIDE
MEADOWS**

Professional Services Provided Through 08/31/2022

MUNICIPAL REVIEW

Professional Fees

	Date	Hours	Rate	Billed Amount
Andrew Vistad DEVELOPMENT REVIEW NO 1	08/01/2022	3.50	105.00	367.50
PROFESSIONAL FEES SUBTOTAL				367.50
MUNICIPAL REVIEW SUBTOTAL				367.50
AMOUNT DUE THIS INVOICE				367.50

Invoice Summary		Current Billed	Prior Billed	Total Billed
	Total	367.50	4,436.25	4,803.75



3601 Thurston Avenue
Suite 101
Anoka, MN 55303

Pioneer Sarah Watershed Management Commission
3235 Fernbrook Lane
Plymouth, MN 55447

Invoice number 49337
Date 09/26/2022

Project **PSC212 2022-10 PIONEER HIGHLANDS**

Professional Services Provided Through 08/31/2022

MUNICIPAL REVIEW

Professional Fees

	Date	Hours	Rate	Billed Amount
Andrew Vistad DEVELOPMENT REVIEW NO 1	08/02/2022	4.50	105.00	472.50
Andrew Vistad DEVELOPMENT REVIEW NO 1	08/03/2022	4.50	105.00	472.50
Andrew Vistad DEVELOPMENT REVIEW NO 1	08/08/2022	2.50	105.00	262.50
Andrew Vistad COMMUNICATION REGARDING APPLICATION	08/19/2022	1.00	105.00	105.00
Andrew Vistad DEVELOPMENT REVIEW NO 1 ADDITIONAL MATERIAL	08/30/2022	2.50	105.00	262.50
PROFESSIONAL FEES SUBTOTAL				1,575.00
MUNICIPAL REVIEW SUBTOTAL				1,575.00
AMOUNT DUE THIS INVOICE				1,575.00

Invoice Summary	Current Billed	Prior Billed	Total Billed
Total	1,575.00	0.00	1,575.00



3601 Thurston Avenue
Suite 101
Anoka, MN 55303

Pioneer Sarah Watershed Management Commission
3235 Fernbrook Lane
Plymouth, MN 55447

Invoice number 49338
Date 09/26/2022

Project **PSC213 2019-08 ADAMS PEST
CONTROL**

Professional Services Provided Through 08/31/2022

MUNICIPAL REVIEW

Professional Fees

	Date	Hours	Rate	Billed Amount
Andrew Vistad DEVELOPMENT REVIEW NO 1	08/10/2022	2.00	105.00	210.00
Andrew Vistad SITE PLAN REVIEW NO 1	08/11/2022	1.50	105.00	157.50
Andrew Vistad DEVELOPMENT REVIEW NO 4	08/22/2022	2.00	105.00	210.00
Andrew Vistad DEVELOPMENT REVIEW NO 4	08/23/2022	2.00	105.00	210.00
Andrew Vistad DEVELOPMENT REVIEW NUMBER 4	08/25/2022	8.00	105.00	840.00
PROFESSIONAL FEES SUBTOTAL				<u>1,627.50</u>
MUNICIPAL REVIEW SUBTOTAL				<u>1,627.50</u>
AMOUNT DUE THIS INVOICE				<u>1,627.50</u>

Invoice Summary		Current Billed	Prior Billed	Total Billed
	Total	1,627.50	0.00	1,627.50



3601 Thurston Avenue
 Suite 101
 Anoka, MN 55303

Pioneer Sarah Watershed Management Commission
 3235 Fernbrook Lane
 Plymouth, MN 55447

Invoice number 49339
 Date 09/26/2022

Project **PSC214 2022-12 BRIDGEVINE
 SUBDIVISION**

Professional Services Provided Through 08/31/2022

MUNICIPAL REVIEW

Professional Fees

	<u>Date</u>	<u>Hours</u>	<u>Rate</u>	<u>Billed Amount</u>
Andrew Vistad DEVELOPMENT REVIEW NO 1	08/30/2022	3.00	105.00	315.00
PROFESSIONAL FEES SUBTOTAL				315.00
MUNICIPAL REVIEW SUBTOTAL				315.00
AMOUNT DUE THIS INVOICE				315.00

Invoice Summary	<u>Current Billed</u>	<u>Prior Billed</u>	<u>Total Billed</u>
Total	315.00	0.00	315.00



3601 Thurston Avenue
Suite 101
Anoka, MN 55303

Pioneer Sarah Watershed Management Commission
3235 Fernbrook Lane
Plymouth, MN 55447

Invoice number 49340
Date 09/26/2022

Project **PSC901-2022 GENERAL ENGINEERING
FOR PIONEER SARAH WMC 2022**

Professional Services Provided Through 08/31/2022

GENERAL ENGINEERING

Professional Fees

	Date	Hours	Rate	Billed Amount
Andrew Vistad WATERSHED PERMIT QUESTIONS	08/05/2022	1.00	105.00	105.00
Andrew Vistad 2022-011 BERGESS RESIDENCE REVIEW AUGUST TECH MEMO	08/12/2022	4.00	105.00	420.00
Andrew Vistad MONTHLY MEETING	08/18/2022	3.75	105.00	393.75
PROFESSIONAL FEES SUBTOTAL				918.75

Reimbursables

	Date	Units	Rate	Billed Amount
MILEAGE	08/18/2022	40.00	0.625	25.00
REIMBURSABLES SUBTOTAL				25.00
GENERAL ENGINEERING SUBTOTAL				943.75
AMOUNT DUE THIS INVOICE				943.75

Invoice Summary	Current Billed	Prior Billed	Total Billed
Total	943.75	5,796.76	6,740.51



Pioneer-Sarah Creek Watershed Management Commission
3235 Fernbrook Lane Plymouth, MN 55447

3235 Fernbrook Lane
Plymouth MN 55447

October 13, 2022

					Total Project Area
General Administration					
Administrative		65.00	0.000		
Administrative	3.59	70.00	251.300		
Administrative - virtual		75.00	0.000		
Office Support	8.00	70.00	560.000		
Public storage	1.00	101.08	101.080		
Data Processing/File Mgmt		70.00	0.000		
Archiving		60.00	0.000		
Reimbursable Expense	107.74	1.00	107.740	1,020.120	Administration
Meeting packets, attendance, Minutes and Meeting follow-up					
Administrative		65.00	0.000		
Administrative	5.04	70.00	352.800		
Admin - offsite	3.00	75.00	225.000		
Reimbursable Expense	177.08	1.00	177.080	754.880	Meeting-related activities
Bookkeeping					
Bookkeeping		65.00	0.000		
Bookkeeping, budget, audit requests	1.75	70.00	122.500		
Treasurer's Reports	1.08	70.00	75.600		
Audit Prep		65.00	0.000		
Audit Prep		70.00	0.000		Bookkeeping/TRs
Reimbursable Expense	25.25	1.00	25.250	223.350	Bookkeeping/TRs
Website					
Weebly hosting - 1 year		1.00	0.000		
Pages, links, uploads		70.00	0.000		
Administrative	0.25	70.00	17.500	17.500	Website
Project Reviews					
Administrative		65.00	0.000		
Administrative	2.25	70.00	157.500		
File Management/Archiving		65.00	0.000		
Reimbursable Expense	36.44	1.00	36.440	193.940	Project Reviews
Education					
Secretarial		65.00	0.000		
Administrative		70.00	0.000		
Virtual - Watershed Partners, etc.	0.43	75.00	32.250		
Reimbursable Expense		1.00	0.000	32.250	Education
			2,242.040	2,242.040	

**INVOICE**

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Page 1 of 1

Invoice Number	1973587
Invoice Date	August 31, 2022
Purchase Order	--
Customer Number	165749
Project Number	227705309

Bill To

Pioneer-Sarah Watershed Management Commission
Amy Juntunen
3235 Fernbrook Lane
Plymouth MN 55447
United States

Please Remit To

Stantec Consulting Services Inc. (SCSI)
13980 Collections Center Drive
Chicago IL 60693
United States

Project	2022 CWF Grant Application Assistance		
	Project Manager	Spector, Diane F	Contract Upset 2,932.00
	Current Invoice Total (USD)	398.75	Amount Billed to Date 398.75
			For Period Ending August 26, 2022

Top Task	100	Grant Assistance
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Professional Services

Category/Employee		Current Hours	Rate	Current Amount
	Megow, Erik Robert	1.00	165.00	165.00
	Spector, Diane F	1.25	187.00	233.75
	Subtotal Professional Services	<u>2.25</u>		<u>398.75</u>

Top Task Subtotal	Grant Assistance	398.75
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Total Fees & Disbursements	398.75
INVOICE TOTAL (USD)	398.75

Due upon receipt or in accordance with terms of the contract



Adam's Pest Control **Medina, Project #2019-008**

Project Overview: Adam's Pest Control is planning to expand their current Medina facility to a new site. This property is located on the north side of State Highway 55, just west of Willow Drive. The entire parcel is 46-acres, but only the southern portion (Lot 1-26.6 acres) is being proposed for development at this time. The proposed site plan consists an office building and a warehouse/maintenance building with parking. This project will disturb 8.74 acres and create 3.74 acres of new impervious areas. The Commission's storm water management plan requires compliance for Storm water Management (Rule D), Erosion Control (Rule E), Floodplain Alteration (Rule F) and Wetland Buffers (Rule I).

Applicant: Adam's Pest/ Jan-Har, LLC Attention Todd Leyse, 922 Highway 55, Suite 100, Medina, MN 55340. Phone; 763-478-9810. Email; tleyse@adamspestcontrol.com

Agent/Engineer: Anderson Engineering of MN, Attention Robert Swanson, 13605 1st Ave. N., Suite 100, Plymouth, MN 55441. Phone: 763-412-4021. Email: rswanson@ae-mn.com

Exhibits:

- 1) PSCWMC Request for Plan Review received September 9, 2019.
- 2) Project review fees for Commercial/industrial development, 21.58 acres in size, \$8,874.00.
- 3) Adam's Pest Control Preliminary Plat - Storm Water Management Plan by Anderson Engineering dated September 6, 2019, revised July 21, 2022
- 4) Electronic copies of Adams Pest Preliminary Plat Application Site Plans by Anderson Engineering dated July 21, 2022
- 5) WCA Notice of Decision, dated July 2, 2019

Findings:

- 1) * A complete application was received September 9, 2019. The application in 2019 was approved by the commission at their December 2019 meeting. Construction never was started for the granted permit and due to commission rules permits expire after a period of 1 year. Revisions to the 2019 site plan were received on July 21, 2022 with a request to continue review under the previous application. The commission was in favor of reviewing under the previous application but is requiring a re-application fee of \$2,625 to cover commission review expenses.

- 2) The current land use on the portion of this property being developed (26.6 acres) is wetland and cropland.
- 3) The applicant proposes to construct an office and warehouse building and its associated parking creating 3.74 acres of new impervious areas within the upland areas. Three filtration basins will be constructed for storm water management.
- 4) The City of Medina is the LGU in charge of administering the 1991 Wetland Conservation Act on this site.
 - o No wetland impacts are proposed as part of this development
- 5) There is one FEMA and ECWMC floodplain on west wetland of the property. It is classified as a FEMA Zone A floodplain that is defined as; *Areas subject to inundation by the 1-percent-annual-chance flood event generally determined using approximate methodologies. Because detailed hydraulic analyses have not been performed, no Base Flood Elevations (BFEs) or flood depths are shown.*
 - o A conservative assumed flood elevation for this basin could be determined at 969.0 (1988 datum)
 - o No impacts below 969.0 are proposed.

Stormwater Management (Rule D):

- 6) The water from this site flows into a large wetland on the west side of this property. From there the water flows under Highway 55 into the backwater wetland adjacent to Peter Lake. Peter Lake flows south and west into the Thomas/Winterhalter/Spurzem/Half Moon chain of lakes before flowing into Lake Independence.
- 7) Stormwater is proposed to be managed for rate, nutrient and abstraction controls by constructing two filtration basins on site. These basins will outlet into the existing wetland in the west portion of this property.
- 8) Rate discharge flows meet the Commission standards.
- 9) Water Quality: water quality is proposed to be controlled by two sand filtration ponds being constructed on-site. The three basins are designed to filter/infiltrate the full water quality volume (1.1' of abstraction for new impervious areas). These facilities provide adequate treatment to meet the Commission's water quality standards. See water quality summary table below for TP and TSS reductions based on the MPCA MIDS calculator. These reductions will meet the Commissions water quality requirements.
- 10) Abstraction: New impervious surface areas proposed on this site will be 3.74 acres. This equates to 14,951 cubic feet of abstraction volume required. The City of Medina has ordinances that require additional volume when filtration is utilized there fore additional volume has been provided.
 - o Total abstraction (filtration) available from site plans = 22,316 cubic feet.
 - o Pretreatment to the filter basins consists of a combination of upstream 2' deep sump manholes and, 3' deep sumped manholes with SAFLE baffle weir and snout attachments.
 - o Drawdown in all three of the filter basins for the 1.1" storm event will be less than 48 hours.

- Stormwater Management Summary for Water Quality and Abstraction

11) *Minnesota stormwater manual recommends at least a 3 foot deep sump when SAFLE baffles are utilized. Please provide a 3 foot sump on the structures that are to be utilized as pre-treatment with safle baffles.

Erosion and Sediment Controls (Rule E):

12) Land disturbing activities of greater than 1 acre, either individual or part of a larger common plan, require a SWPPP and are required to apply for a NPDES/SDS construction permit.

Buffer Strips (Rule I):

13) Wetland buffers are required on the large westerly wetland and the two wetlands on the north edge of the construction limits.

- Buffer plans and monumentation meet the Commission's standard of 25' average/10' minimum width. Actual buffers range from 25' to 35' wide. 35' wide buffers are provided in areas along the site construction where 4:1 slopes are being graded that are not naturally occurring.

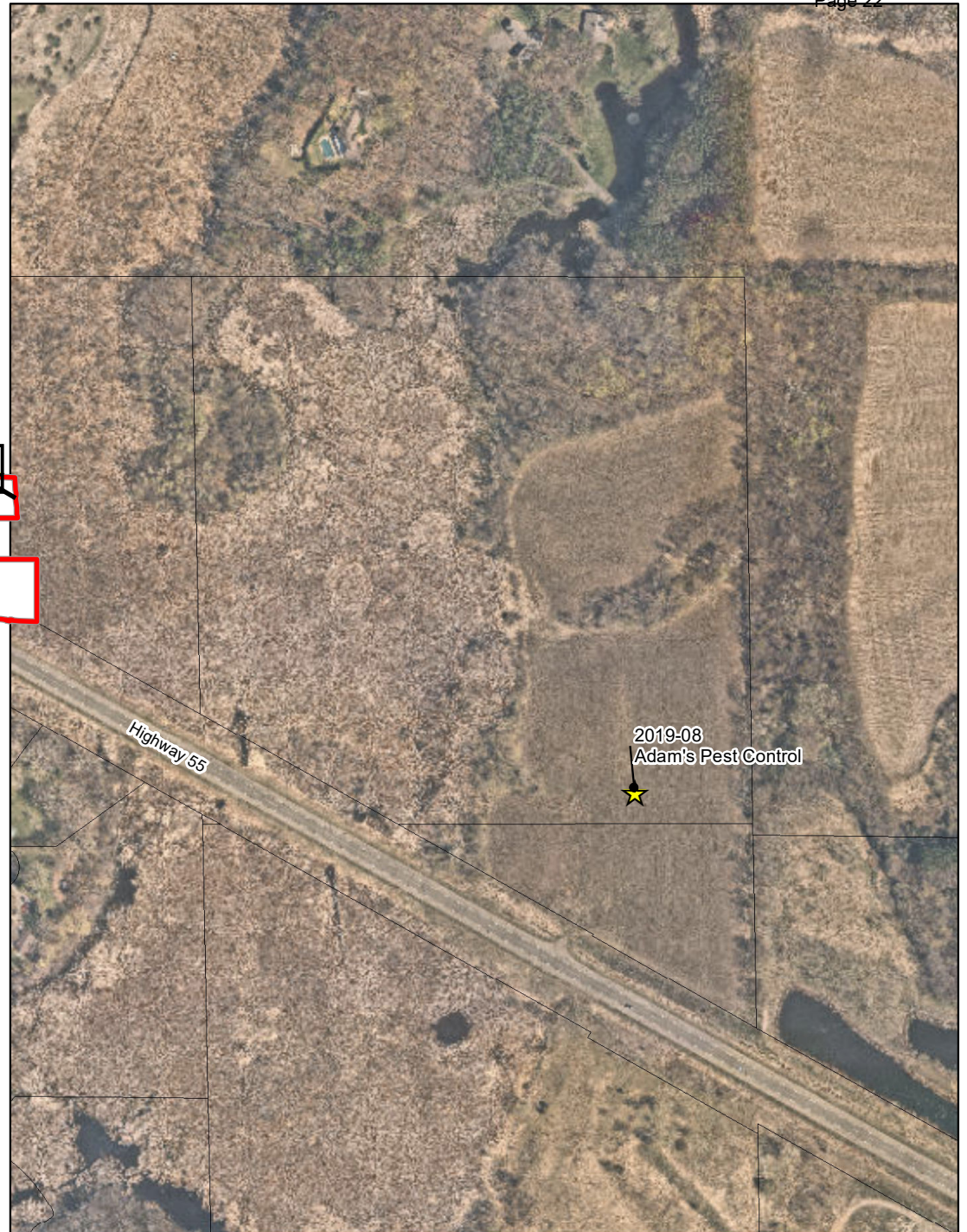
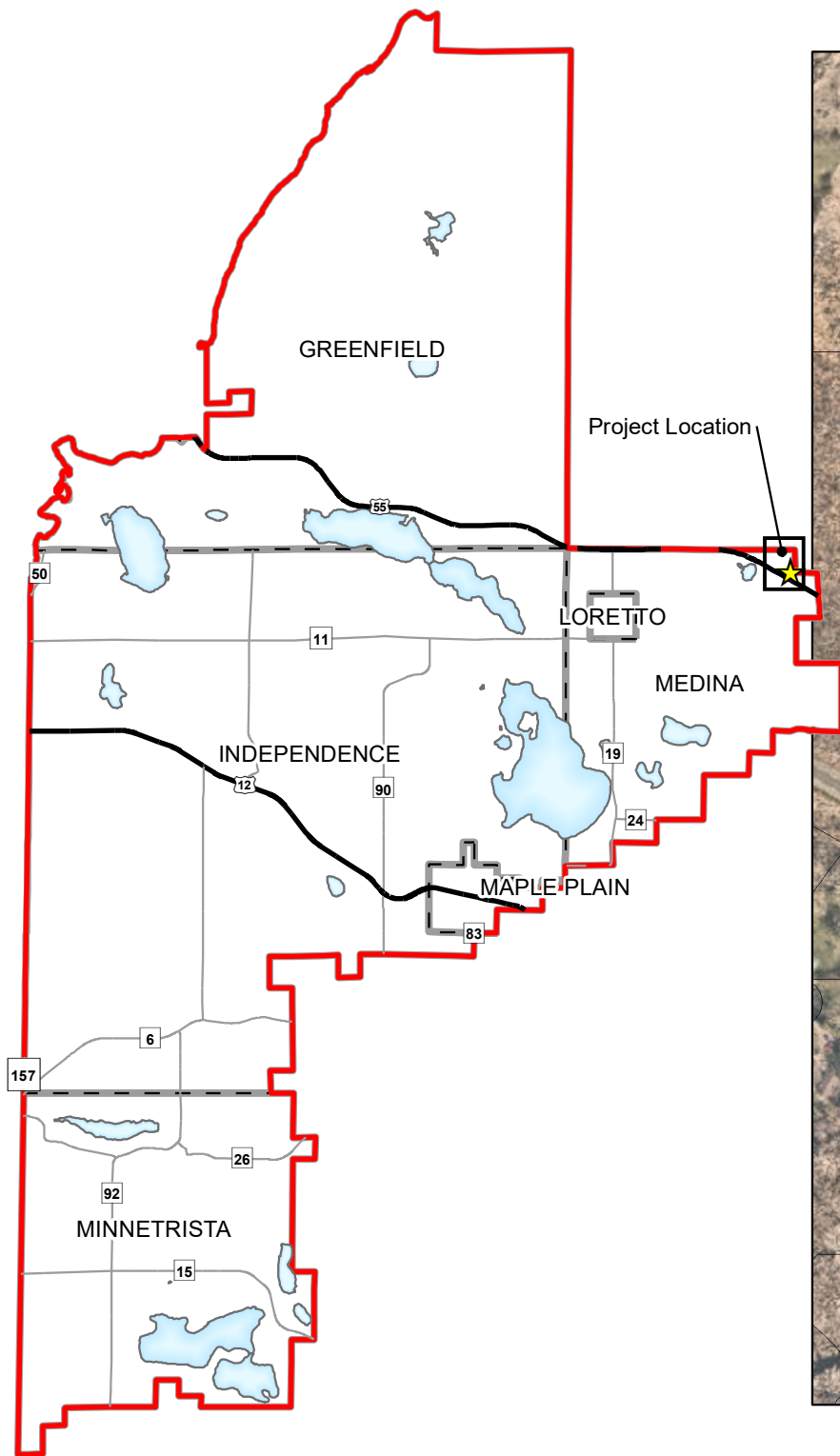
Recommendation: Approval

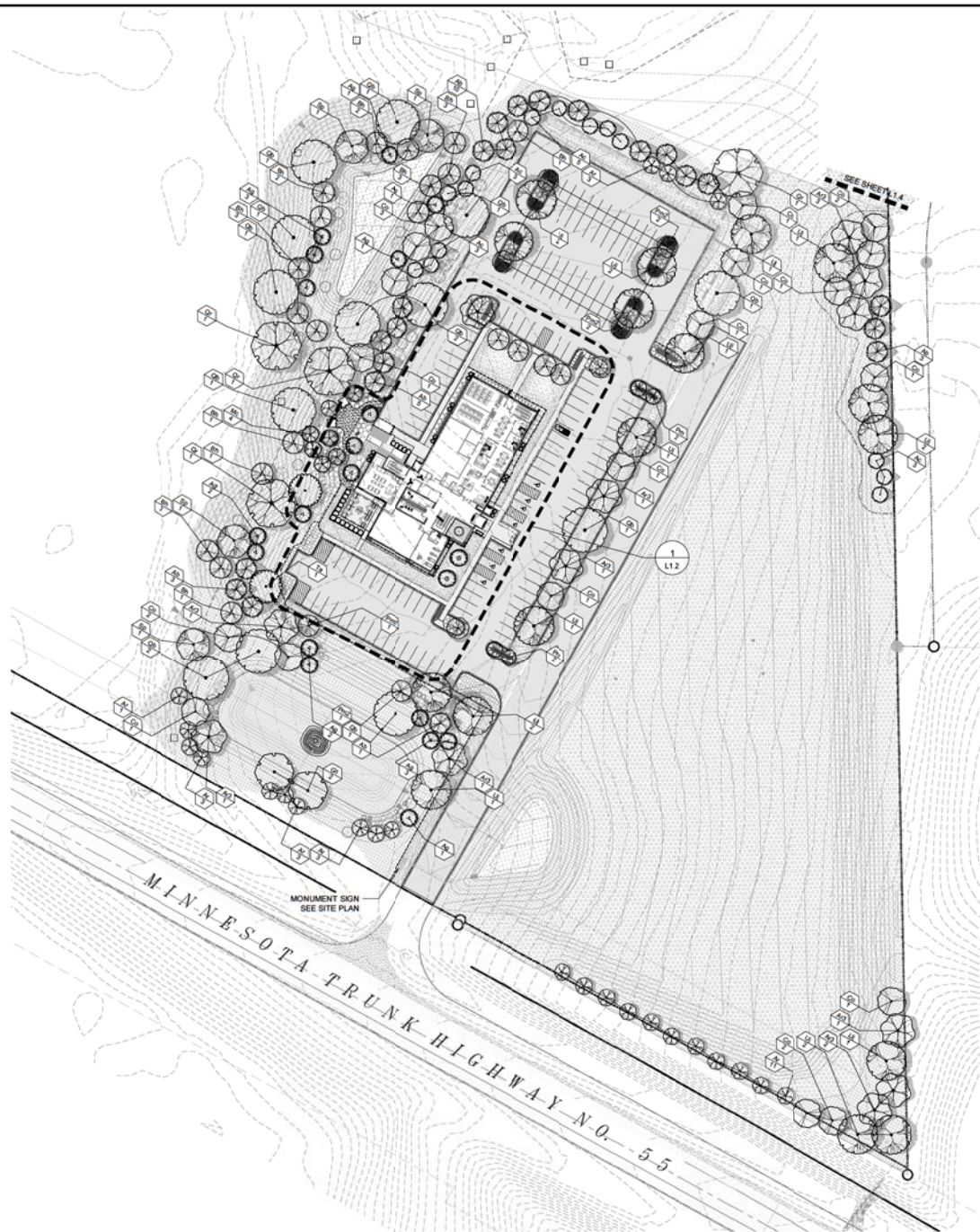
Advisor to the Commission



Andrew Vistad, PE









October 6, 2022
Date





LEGEND





















CITY OF MEDINA, NE LANDSCAPING REQUIREMENTS			
BUSINESS PARK (PUB AND BUSINESS) DISTRICTS			
OVERSTORY OF DECIDUOUS SHADE & CONIFEROUS TREES			
A minimum of one (1) tree per 800 sq. feet, or fraction thereof, of lot perimeter shall be required.			
Lot Perimeter	8,134 ft.		
Trees Required	103		
Trees Provided	134		
ORNAMENTAL TREES			
A minimum of one (1) tree per one hundred (100) feet, or fraction thereof, of lot perimeter shall be required.			
Lot Perimeter	8,134 ft.		
Trees Required	81		
Trees Provided	63		
UNDERSTORY TREES			
A minimum of one (1) shrub per thirty (30) feet, or fraction thereof, of lot perimeter shall be required.			
Lot Perimeter	8,134 ft.		
Shrubs Required	172		
Total Shrubs Provided	420	Total 6-Gal. Shrubs	382

	PROPERTY LIMITS	CONSTRUCTION LIMITS
	NEW SOD W/ IRRIGATION	
	PRAIRIE RESTORATION "MIXED" "HEIGHTS/MESIC" SEED MIX, OR APPROVED EQUIV.	
	PRAIRIE RESTORATION "SAVANNA" SEED MIX, OR APPROVED EQUIV.	
	MIDLOT SEED MIX 3:5:24:1 MESIC PRAIRIE	
	WETLAND SEED MIX 34-171 WETLAND REHABILITATION	
	MIDLOT SEED MIX 34-201 PERMANENT DRAINAGE & MEET	
	SPADE EDGE LANDSCAPE BORDER	
	STEEL EDGING	

NOTES

1. ALL SHRUB & PERENNIAL PLANTINGS IN LANDSCAPE BEDS SHALL RECEIVE IRRIGATION (SEE L2.0 FOR IRRIGATION NOTES)
2. ALL SHRUB PLANTINGS IN NATIVE SEED AREAS SHALL RECEIVE TEMPORARY IRRIGATION FOR ESTABLISHMENT PURPOSES ONLY (SEE L2.0 FOR IRRIGATION NOTES)
3. REFER TO PLAN SHEET L2.0 FOR SOOING, SEEDING, FERTILIZER AND TOPSOIL NOTES

PLANT SCHEDULE - TREES

TREES	CODE	QTY	COMMON / BOTANICAL NAME	CONT	GAL	REMARKS
	Av3	12	RED MAPLE ACER RUBRUM	0.60	2 - 1/2" CAL.	
	Bh	21	HERITAGE RIVER BIRCH - BUNCH BETULA NIGRA 'HERITAGE'	0.60	2" CAL.	MULTI-TRE
	Co	19	COMMON HACKBERRY CELTIS OCCIDENTALIS	0.60	2 - 1/2" CAL.	
	Gl	2	HONEY LOCUST GLEDETIA TRIACANTHOS	0.60	2 - 1/2" CAL.	
	H2	1	FIRE LIGHT PINCULE HYDRANGEA ON STANDARD HYDRANGEA PANCULATA 'SMPPPL' TM	0.60	1 - 1/2" CAL.	
	Gl6	13	SWAMP WHITE OAK QUERCUS BICOLOR	0.60	2 - 1/2" CAL.	
	Gr	4	RED OAK QUERCUS RUBRA	0.60	2 - 1/2" CAL.	
	Sp	4	PRAIRIE CASCADE WILLOW SALIX X PRANIE CASCADE	0.60	2" CAL.	
	Ta	2	AMERICAN LINDEN TILIA AMERICANA	0.60	2 - 1/2" CAL.	
	UJ	17	JEFFERSON AMERICAN ELM ULMUS AMERICANA 'JEFFERSON'	0.60	3" CAL.	
CONFERIOUS TREES	CODE	QTY	COMMON / BOTANICAL NAME	CONT	GAL	REMARKS
	Ab	22	BALSAM FIR ABIES BALSAMEA	0.60	6" HT.	
	Ac	14	GANDCANG WATE FIR ABIES CONCOLOR 'GANDCANG'	0.60	6" HT.	
	Jt	18	TAYLOR EASTERN REDCEDAR JUNIPERUS VIRGINIANA 'TAYLOR'	0.60	6" HT.	
	Tt	18	TEDDY ARBORVITAE THUJA OCCIDENTALIS 'TEDDY'	0.60	6" HT.	
ORNAMENTAL TREES	CODE	QTY	COMMON / BOTANICAL NAME	CONT	GAL	REMARKS
	Ar	24	RED ROCKET MAPLE ACER RUBRUM 'RED ROCKET'	0.60	2" CAL.	
	Ag	20	'AUTUMN BRILLIANCE' SERVICEBERRY AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'	0.60	2" CAL.	
	Mc	5	SWEET SIXTEEN APPLE MALUS X DOMESTICA 'SWEET SIXTEEN'	0.60	1 - 1/2" CAL.	
	Me	2	SNOWSWEET APPLE MALUS X DOMESTICA 'WILDMUNG' TM	0.60	1 - 1/2" CAL.	
	Prn2	8	AMUR CHOKECHERRY PRUNUS MAACKII	0.60	2" CAL.	
	Prn	4	MIDNIGHT SCHUBERT CHOKECHERRY PRUNUS MAACKII 'MIDNIGHT'	0.60	2" CAL.	

SKD Architects Comm. No. 1356.00

New Building For:
Jan-Har, LLP.
Adam's Pest
Highway 55
Medina, Minnesota

PRELIMINARY
PLAT FOR
ADAM'S
SUBDIVISION

ANDERSON

13605 1st Ave. N. #110 Plymouth, MN 55441
P 763.412.6000 | F 763.412.6090 | ee-mn.com

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

DO NOT SIGN: JEFFERY R. GUTHRIE

SIGNATURE: NOT FOR CONSTRUCTION
DATE: 09/09/2022 LICENSE # 58199

LANDSCAPE TREE
PLANTING PLAN

DESIGNED: AM	DRAWN: JD	CHECKED BY: AM
COMM. NO. 15236		PLOTTED: 9/9/2022
DRAWING NO.		

L1.0



Bridgevine Grading Permit **Independence, Project #2022-012**

Project Overview: Bridgevine Subdivision is a 28 lot 47.5-acre residential development. The developer is seeking erosion and sediment control approval for a preliminary grading permit prior to receiving their full development permit. The residential property is located within the City of Independence. The existing site contains a mixture of woodland, meadow, a tree farm, and row crops. The site is adjacent to and drains to Lake Independence located on the northern boundary of the proposed subdivision, and Pioneer Creek located to the west of the development. The site drainage is directed in three directions, to the north into an existing gully, to the east into an existing gully, and to the west into an existing gully. The Commission's management plan requires compliance for, Erosion Control (Rule E).

Applicant: Steve Bohl, 849 Mill Street East, Wayzata, MN 55391. Phone: 952-473-2089
 Email: steve@bohlanddevelopment.com

Agent/Engineer: Sathre-Berhquist, inc. attn Charles Wiemerslage, 14000 25th Ave N Suite 120, Plymouth, MN 55447. Phone: 922-476-6000. Email: cwiemerslage@sathre.com

Exhibits:

- 1) PSCWMC Request for Plan Review received September 14, 2022
- 2) Project review fees for project, \$2150.00
- 3) Stormwater Pollution Prevention Plan, dated September 16, 2022
- 4) Stormwater Management Plan, dated October 4, 2022, prepared by AE2S
- 5) Wetland Delineation Report, dated December 16, 2022

Findings:

- 1) An application was received September 14, 2022. The initial 60-day decision period expires on November 13, 2022. The required fee has been provided as part of the development plans. An erosion and sediment control permit is being requested prior to full authorization.
- 2) The applicant proposes to divide a 47.5-acre parcel into 28 large shoreland residential lots.
- 3) The City of Independence is the LGU in charge of administering the 1991 Wetland Conservation Act on this site.
 - o No wetlands are proposed to be impacted from this project.
 - o Notice of decision was obtained November 10, 2018

Erosion and Sediment Controls (Rule E):

- 4) Land disturbing activities of greater than 1 acre, either individual or part of a larger common plan, require a SWPPP and are required to apply for a NPDES/SDS construction permit. The proposed development will cause more than 1 acre of disturbance and a SWPP has been provided.
- 5) Grading activities are likely to change drainage patterns with in the site. It is Recommended that care be taken such that construction activities do not exacerbate any existing erosion problems on site.
- 6) The approved permit is for Erosion and Sediment control relating to earth moving activities identified by the Bridgevine Subdivision Preliminary plans.

Recommendation: Approval contingent upon the following conditions:

- 1) Providing an acceptable solution to address the erosion occurring in the onsite northern Gully identified as GS46.
- 2) The developer acknowledges that future comments to address stormwater concerns may cause changes to the provided grading plans.
- 3) "The Developer agrees to and will comply with all requirements of the watershed district and NPDES and takes full responsibility to assure that any measures required by them be completely satisfied."

Advisor to the Commission



Andrew Vistad, PE

October 7, 2022
Date

HENNEPIN COUNTY

MINNESOTA

DATE: October 13, 2022

TO: Pioneer-Sarah Creek Watershed Management Commission

FROM: Kevin Ellis and Kris Guentzel; Hennepin County Department of Environment and Energy

RE: **REQUESTED COMMISSION ACTION**, Olson Manure Bunker

Project Overview

Hennepin County staff have been working with Randall Olson at [4550 Pioneer Trail in Medina](#). Mr. Olson is the owner of the property and operates a horse boarding facility that, on average, has 28 horses on site. These horses produce approximately 55 pounds of manure per day which is currently being stored on an uncovered dry stack with no measures to contain excess runoff. County staff began working with the landowner and our engineer (Mike Candler at Wright Soil and Water Conservation District) to outline design options to address manure storage on site so it can be stored without runoff concerns before being hauled away.

During the preliminary design process, staff determined that the size of the bunker would need to be able to hold approximately 5,673 cubic feet of manure for four months between hauling. In order to hold this amount of manure, weighing approximately 141,680 pounds, the bunker was proposed to be 30' x 80' with 4' walls and a 12' apron. A roof for a structure of this size would not be cost efficient, so it was proposed that a heavy tarp be added on top to protect the manure from precipitation and wind.

Preliminary designs were completed in late summer 2022, at which time Hennepin County contacted Mr. Olson to approve the designs and accept bids for the work.

The final designs have been included with this Commission action request.

With Commission approval, County staff expect the contractor can begin work in late October and complete work by year's end.

Project Funding and Commission Request

Both state and local funds are available for this work. State funds include watershed-based implementation funds (WBIF), allocated to the Pioneer-Sarah Creek Watershed Management Commission (PSCWMC) by the Board of Water and Soil Resources (BWSR), to implement best management practices in the Spurzem Creek subwatershed.

Hennepin County staff are requesting the Commission support this project using those state funds along with Commission's Capital Improvement Program (CIP) funds. The table below outlines the County's requested funding breakdown, and includes contributions from both the county and the landowner.

Design and Project Development Costs

Project Cost	Landowner	County *	Commission	Commission (thru CIP)
\$4,542	\$0	\$4,542	\$0	\$0
% of Design + Development Costs	0%	100%	0%	0%

* 68 hours of time at rates of \$63.83 for Paul Stewart and Kevin Ellis, \$75.00 for Mike Candler

Installation Costs

Project Cost	Landowner	County	Commission	Commission (thru CIP)
\$69,319	\$6,931.90	\$6,931.90	\$38,125.45	\$17,329.75
% of Installation Cost	10%	10%	55%	25%

The County is requesting full Commission CIP funding (i.e. 25%) because this project is cost-effective and directly improves water quality to several priority waterbodies including Peter Lake, Spurzem Creek, and Lake Independence, by reducing nutrient loading.

This project is anticipated to capture 47 lbs of nitrogen per year and 14 lbs of total phosphorus per year. The County estimated annual operations and maintenance to be \$550 dollars over the 10-year design lifetime. Therefore, life cycle cost-effectiveness is \$499/lb total phosphorus removed, which puts this practice in line with the Top 50 most cost-effective practices identified in the Spurzem Creek Subwatershed Assessment.

In summary, County staff are requesting the Pioneer-Sarah Creek Watershed Management Commission support project implementation through the following

- \$38,125.45 from WBIF dollars
- \$17,329.75 from CIP funds

EXHIBIT A

Pioneer-Sarah Creek Watershed Management Commission

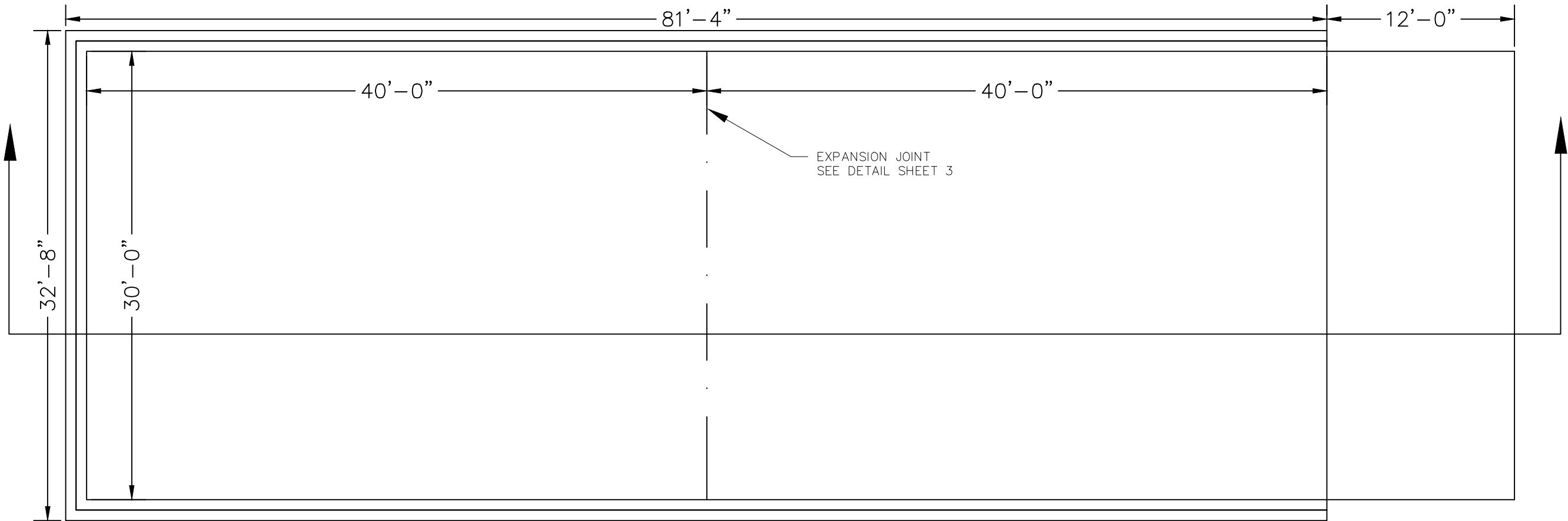
Capital Improvement Project Submittal

*(This submittal will be rated on its completeness and adherence to the goals of the Commission.
A second page may be used to provide complete responses.)*

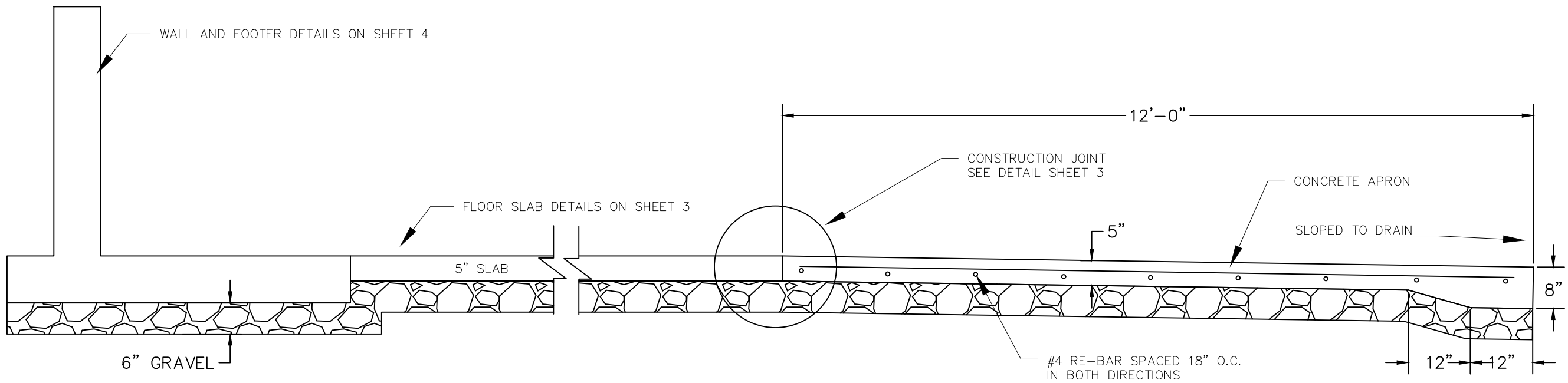
City	Hennepin County	
Contact Name	Kris Guentzel	
Telephone	612-596-1171	
Email	Kristopher.guentzel@hennepin.us	
Address	701 4 th Ave. S., Minneapolis 55415	
Project Name	Olsen Manure Bunker	
	1. Is project in Member's CIP? () yes (X) no	Proposed CIP Year = 2022
	2. Has a feasibility study or an engineering report (circle one) been done for this project? () yes (X) no But surveyed and engineering work has to complete final designs.	
		Amount
	Total Estimated Project Cost	\$69,319.00
	Estimated Commission Share (up to 25%, not to exceed \$250,000)	\$17,329.72
	Other Funding Sources (name them) County	\$6,931.90
	Landowner	\$6,931.90
	Watershed-Based Implementation Funds	\$38,125.45
	3. What is the scope of the project? Cover and better manage manure pile to minimize nutrient runoff on the Olsen property at 4550 Pioneer Trail in Medina, which is an operating horse boarding facility with approximately 28 horses.	
	4. What is the purpose of the project? What water resource(s) will be impacted by the project? The project will reduce nitrogen and phosphorus runoff from a currently uncovered manure pile on the property, thereby reducing nutrient runoff to several nutrient-impaired waterbodies. These include Lake Peter, Spurzem Lake, Half Moon Lake, and Lake Independence.	
	5. What is the anticipated improvement that would result from the project? (Include size of area treated and projected nutrient reduction.) This project will improve water quality in Lake Peter by reducing phosphorus loading by 14 pounds per year, directly addressing the nutrient impairment for the north bay of the lake. Considering the 10-year design lifetime and anticipated maintenance costs, life cycle cost-effectiveness is \$499 per pound of total phosphorus retained. This will address other nutrient impairments on downstream lakes, including Spurzem, Half Moon, and Independence.	
	6. How does the project contribute to achieving the goals and programs of the Commission? Goal 1c of the 4 th generation plan is to 'Meet state water quality standards in the following lakes: Independence, ...'. Goal 2 is to "Work in a coordinated way with urban and rural property owners, cities, lake associations, public and private entities, Hennepin County, and TRPD building partnerships to conserve our water and natural resources and deliver implementation projects." This project also addressed numerous Goal Areas in the 4 th generation plan. The project will cost-effectively address a nutrient runoff that may have otherwise reached Lake Peter and likely other downstream lakes.	
0/10	7. Does the project result from a regulatory mandate? () yes (X) no How?	
0/10/20	8. Does the project address one or more TMDL requirements? (X) yes () no Which? Lake Independence nutrient impairment , along with nutrient impairments in Lakes Peter, Spurzem, and Half Moon in the Pioneer-Sarah Creek TMDL .	
0/10/20	9. Does the project have an educational component? () yes (X) no Describe.	
0/10	10. Do all the LGUs responsible for sharing in the cost of the project agree to go forward with this project? (X) yes () no Identify the LGUs. PSCWMC, Hennepin County, City of Medina	
10/20	11. Is the project in all the LGUs' CIPs? () yes (X) no	

1-34	<p><i>(For TAC use)</i></p> <p>12. Does project improve water quality? (0-10)</p> <p>13. Prevent or correct erosion? (0-10)</p> <p>14. Prevent flooding? (0-5)</p>	<p>15. Promote groundwater recharge? (0-3)</p> <p>16. Protect and enhance fish and wildlife habitat? (0-3)</p> <p>17. Improve or create water recreation facilities? (0-3)</p>
TOTAL (poss 114)		

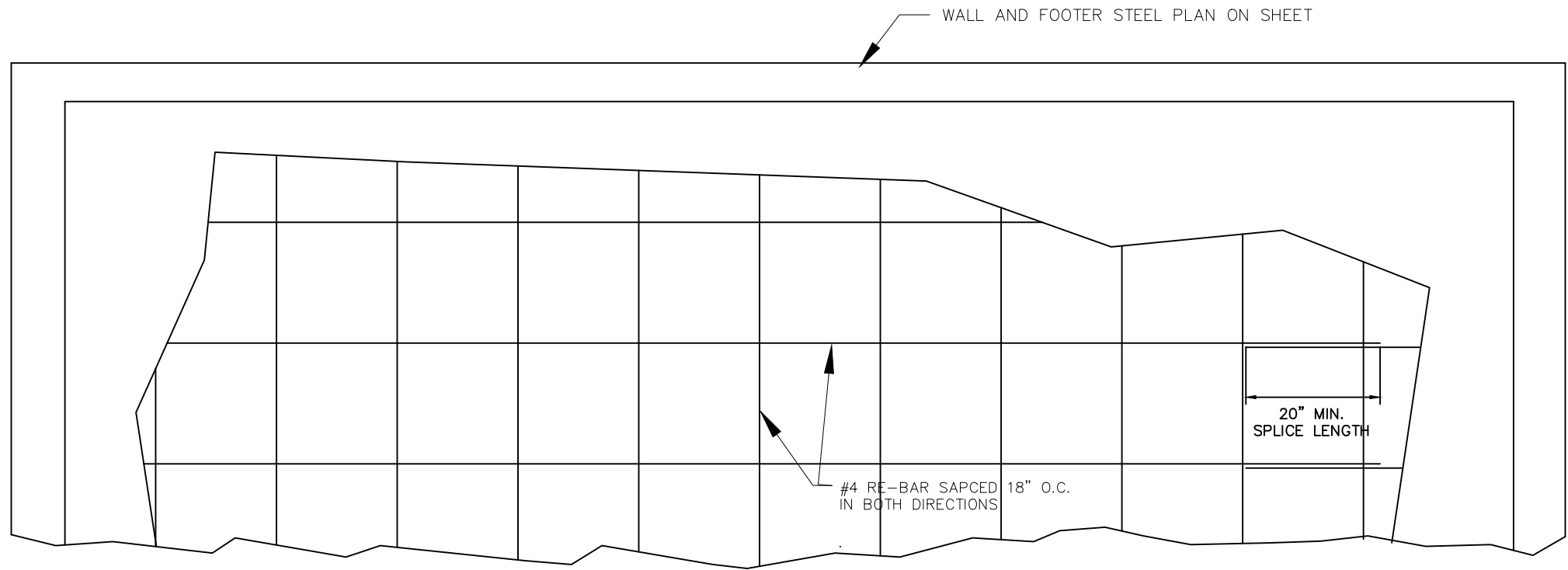
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CONCRETE SLAB & APRON PLAN VIEW



CONCRETE SLAB & APRON CROSS SECTION



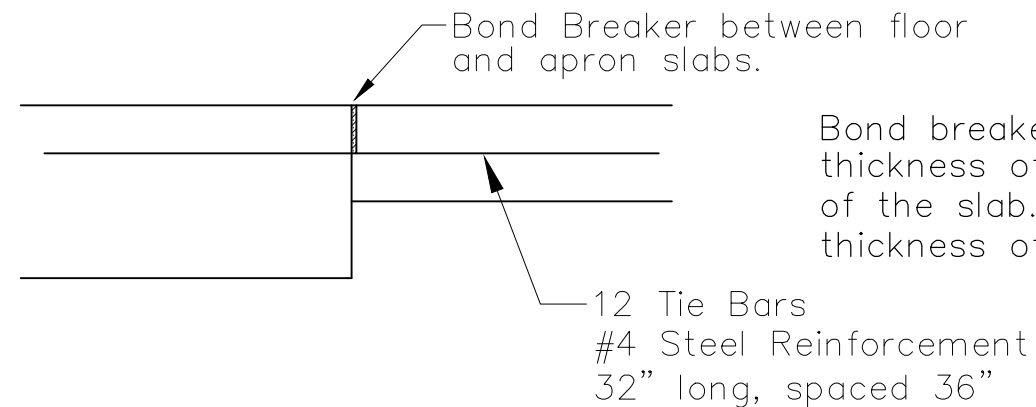
PARTIAL FLOOR STEEL PLAN VIEW

MATERIALS NOTES

- Concrete shall be air-entrained.
- Concrete shall be class 4000M (no less than 6 bags of cement /cu.yd. and no more than 6 gal. of water/bag of cement).
- The sand or gravel subbase material shall be clean pit run sand or gravel with less than 5% by weight passing the #200 sieve.
- All treated lumber shall be No. 2 grade southern yellow pine with 0.60 retention.

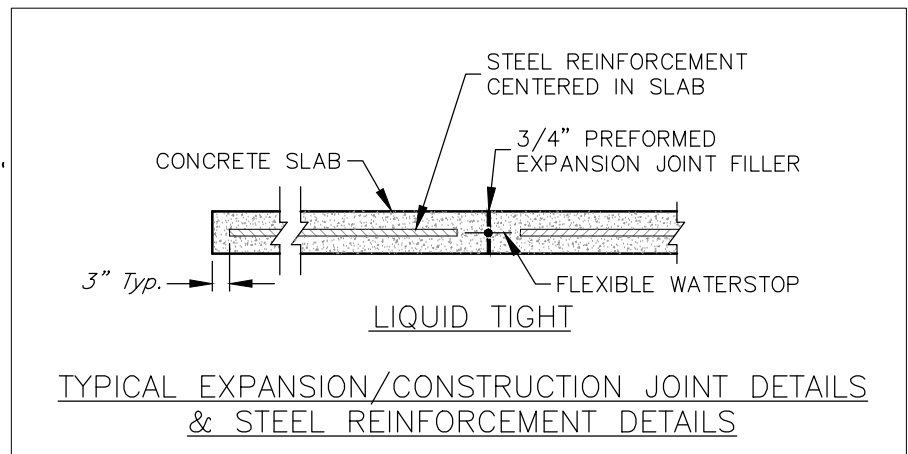
CONSTRUCTION NOTES

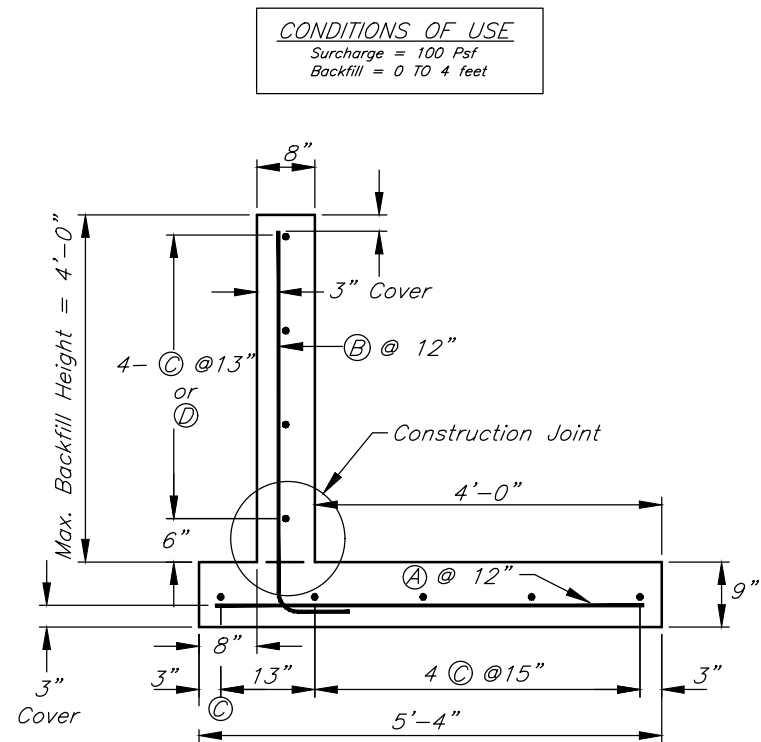
- All joints shall divide the slab into square or rectangular sections with the longer side being no more than one-and-a-half times the length of the shorter side. The maximum spacing of the expansion joints shall be 50 feet for the wire mesh, or 70 feet for the reinforcing bars.
- Expansion joint widths shall be 1/2 inch minimum for joint spacings up to 30 feet, 3/4 inch minimum for joint spacings up to 50 feet and 1 inch for joint spacings up to 70 feet.
- Any forms used in construction shall be removed.



FLOOR SLAB AND APRON CONNECTION DETAIL

STACKING SLAB/APRON QUANTITIES		
Quantity	Unit	Item
	Cu.Yds.	Excavation
	Cu.Yds.	Earth Fill
58	Cu.Yds.	Sand or Gravel Subbase
35	Cu.Yds.	Concrete Class 4000M
30	Ln.Ft.	3/4" Preformed Expansion Joint Filler
30	Ln.Ft.	Flexible Waterstop
2300	Ln.Ft.	Reinforcing Bars #4 @ 18" Grade 60
12	Each	Tie Bars

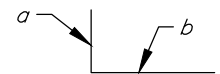




BAR SCHEDULE							
Mark	Size	Quantity	Type	a	b	Length	Total Length
A	#5	190	Str.	---	---	5-0	950
B	#5	190	21	4-3	1-0	5-3	1007
C*	#5	---	Str.	---	---	---	1480
D*	#5	16	21	19-0	1-0	20-0	320

* Splices in Mark C and D bars are 17 min.

#5 Bars, Total Length = 3757 x 1.043 lbs/ft. = 3919 pounds



TYPE 21 BAR

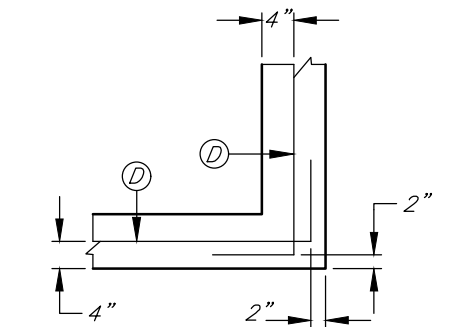
DESIGN NOTES:

This design meets medium design life (20 years).
 Drainage shall be away from the wall.
 A 2' minimum backfill is recommended for frost protection.
 Backfill shall be sloped away from the wall.

Design Strengths: (Working Stress Design)
 Concrete f_c = 3500 psi Steel f_s = 20000 psi (Grade 40)
Wall Design Loading: (Refer to Table 1 – Lateral Earth Pressure Valves.
 313 standard, Section IV of the Technical Guide.)
 Minimum backfill height = 0 in. Maximum backfill height = 4'-0"
 Manure load inside = 60 psf/ft. Soil backfill outside loading = 75 psf/ft.
 With 100 psf horizontal surcharge or 75 psf/ft with no surcharge.
 Backfill soil weight – 100 pcf.

Footing Design:
 Maximum footing contact pressure 600 psf.
 Water table must be below the footing elevation.

Wall Restraint:
 Wall must be restrained with a floor slab when backfilled.
 (5" thick slab assumed, safety factor against sliding 1.3 min.)
 48 feet minimum unrestrained slab length with surcharge load.
 24 feet minimum unrestrained slab length – no surcharge load.



CORNER DETAIL (PLAN VIEW)

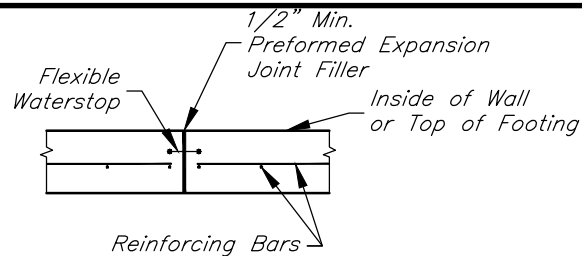
ESTIMATED QUANTITIES		
Quantity	Unit	Item
47	Cu.Yds.	Concrete 0.247 Cu.Yds/ft.
3757	Ln.Ft.	Reinforcing Bars
190	Ln.Ft.	1/2" Preformed Expansion Joint Filler
190	Ln.Ft.	Flexible Water Stop
	Ln.Ft.	Backer Rod
	Unit	Elastomeric Joint Sealant

GENERAL NOTES:

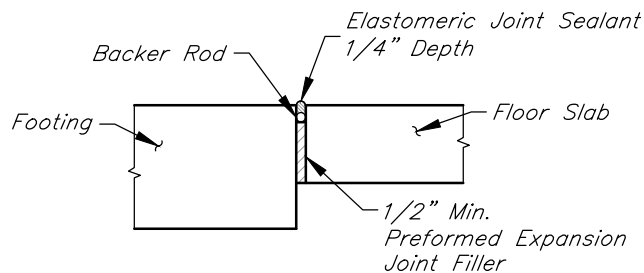
- Standardized Design: Must be adapted to specific site.
- A 6" minimum thickness of compacted sand or gravel subbase shall be placed under the footing.
- In construction joint detail ③ the slab surface must be thoroughly cleaned with water and a wire brush. The surface of the joint shall be kept moist for at least 1 hour prior to placement of new concrete.
- If water tightness is not required, flexible water stops, elastomeric joint sealer & backer rods may be eliminated. From joint detail ① + ②
- See MN Practice Standard 313 for expansion joint spacing.

SPECIFICATIONS:

- The concrete shall be air entrained.
- The concrete shall be class 3500.
- The sand or gravel subbase material shall be clean pit run sand or gravel with less than 5% by weight passing the #200 sieve.
- The backer rods shall be 1/8 inch larger than the width of the joint.
- The hydrophylic waterstop shall be installed according to the manufacturer's recommendations.

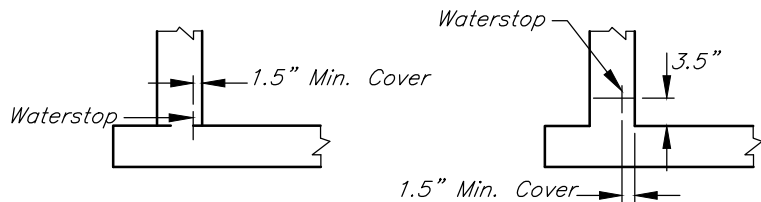


WALL & FOOTING EXPANSION
JOINT DETAIL ①



NOTE: A flexible waterstop may be used instead of the backer rod & joint sealant.

FOOTING-FLOOR SLAB ISOLATION
JOINT DETAIL ②



CONSTRUCTION
JOINT DETAIL ③

Views & Details Not to Scale

HENNEPIN COUNTY

MINNESOTA

DATE: October 22, 2022

TO: Pioneer-Sarah Creek Watershed Management Commission

FROM: Kris Guentzel; Hennepin County Department of Environment and Energy

RE: **REQUESTED COMMISSION ACTION**, McComb Channel Stabilization

Project Overview

Hennepin County staff recently completed installation of a waterway repair at [2772 Becker Road in Independence](#), to address a severely eroding ephemeral channel on Bruce McComb's property. Several site visits in 2020 led to the identification of over 250 feet of heavily eroded channel that was conveying significant amounts of sediment into the wetland east of Becker Road and north of Providence Curve, much of which likely reached Lake Independence. Due to the evidence of severe erosion, County staff began working with the landowner and our engineer (Mike Candler at Wright Soil and Water Conservation District) to outline design options to address the erosion.

During the preliminary design process, the engineer determined that stabilizing the existing channel was cost-prohibitive and that abandoning (and plugging) the channel and instead conveying water through a pipe was the most cost-effective option that would address the erosion source on the property. To protect the pipe and downstream wetland, two other design features were added:

- 1) Stilling basin east of Becker Road and upstream (west) of the pipe inlet. This basin allows for water to slow down and settle out any upstream sediments and other particulates. In addition, this basin was designed to capture up to one inch of runoff from the upstream drainage area
- 2) Grassed overflow that allows water to safely move across the site if, during a very large storm event, the pipe was overwhelmed.

Preliminary designs were completed in early summer 2021, at which time Hennepin County staff began to engage City of Independence staff about the opportunity to partner on this project as work would need to be completed within public right of way along Becker Road. City staff have been supportive of the effort and assisted with project execution, including a survey of the pipe conveying water below Becker Road.

The final designs were completed in fall 2021. Project installation was delayed into summer 2022, but the project was substantially completed in August and punch list items were completed in October.

Due to project delays and unforeseen installation challenges, final costs for installation were \$42,357.67, but still lower than the original engineer's estimate of \$53,996. This is 40% higher than what was included in the previous request for commission action.

Project Funding and Commission Request

During the October 2021 PSCWMC meeting, Commissioners approved allocating \$16,597.53 of excess Baker Park Clean Water Funds and \$6,035.47 of CIP dollars to this project.

With the additional costs for project installation, Hennepin County staff are requesting the Commission support this project as follows:

- Continue \$16,597.53 allocation from the excess Baker Park Clean Water Fund
- Increase CIP allocation to \$10,589.17
- Contribute \$6,317.55 in State of MN dollars from watershed-based implementation funds allocated to implementing BMPs in the Lake Independence drainage area.

The tables below outline the County's requested funding breakdown.

Design and Project Development Costs

Project Cost	Landowner	County *	Commission (thru Baker Park Funds)	Commission (thru CIP)
\$12,059.25	\$0	\$12,059.25	\$0	\$0
% of Design + Development Costs	0%	100%	0%	0%

* 190 hours of time at rates of \$62.91 for Paul Stewart and \$70.00 for Mike Candler

Installation Costs

Project Cost	Landowner	County	Commission (thru Baker Park Funds)	Commission (thru CIP)	Commission (thru WBIF)
\$ 42,356.67	\$3,093.74	\$5,377.59	\$16,978.62	\$10,589.17	\$6,317.55
% of Installation Cost	7%	13%	40%	25%	15%

The County is requesting full Commission CIP funding (i.e. 25%) because this project is cost-effective and directly improves water quality to a priority waterbody (Lake Independence) by reducing both sediment and total phosphorus loading.

This project is anticipated to capture 5.29 tons of sediment per year and 10.91 lbs of total phosphorus per year. The County estimated annual operations and maintenance to be \$8,000 dollars over the 10-year design lifetime. Therefore, life cycle cost-effectiveness is \$952/ton sediment removed and \$461/lb total phosphorus removed, which puts this practice in line with others in the Lakes Sarah and Independence Subwatershed Assessment.

MEMORANDUM

TO: Pioneer-Sarah Creek Watershed Management Commission
 FROM: Andrew Vistad, Hakanson-Anderson
 DATE: October 7, 2022
 SUBJECT: Staff Report

1.-8. See Previous Staff Report

9. ***2019-08 Adams Pest Control, Medina.** Adam's Pest Control is planning to expand their current Medina facility. This property is located on the north side of State Highway 55, just west of Willow Drive. The entire parcel is 46-acres, but only the southern portion (Lot 1-26.6 acres) is being proposed for development at this time. This site plan consists of two new buildings which includes an office building and a warehouse/maintenance building with parking. This project will disturb 10.9 acres and create 4.6 acres of new impervious areas. The Commission's stormwater management plan requires compliance with Rules D, E, F and I.
10. **2022-01 Bushwood Hills Reserve.** is a 5 lot 34.8-acre residential development located in the City of Greenfield. The development is proposing to handle stormwater rate control with 4 Biofiltration basins located within the development. The bio-filtration basins and land use change are expected to reduce phosphorus runoff by 52% and total suspended solids runoff by 58%. Additionally, the bio-filtration basins are providing some abstraction that is working to reduce the volume of runoff that is leaving the site. The engineer has supplied a SWPPP for the development that meets all watershed rules. This project was reviewed for Rule D, Rule E, and Rule I.
11. **2022-002 Huotari Residence.** Jeff Huotari has submitted a permit application for the construction of a driveway, residential dwelling, and septic system. The application was a requirement as a result of a wetland TEP meeting that determined that a portion of the installed drive had impacted an on-site wetland. The residential lot is located along County Road 11 south of Lake Rebecca. The project will disturb approximately 1 acre of land. This project was reviewed for Rule E.
12. **2022-003 Hilltop Prairie.** The Hilltop Prairie development is a 13 lot 62.6-acre residential development located in the City of Independence. The development is proposing to handle stormwater rate control with 4 NURP basins located within the development. Due to confining soils and high groundwater levels infiltration or filtration is not feasible. The applicant is creating sections of tree preservation and is also providing additional buffer to gain abstraction credits to offset the lack of infiltration. Additional wetland buffer and tree preservation generate 0.5" of credit over their proposed areas. Stormwater ponds within the development will be maintained by the property owners, an operations and maintenance declaration has been obtained and well be recorded with the lots. Water quality modeling for the site indicates that a 33% reduction in total phosphorus and a 60% reduction in total suspended solids will be achieved. This project was reviewed for Rule D, Rule E, and Rule I.

RULE D – STORMWATER MANAGEMENT

RULE E – EROSION AND SEDIMENT CONTROL

RULE F – FLOODPLAIN ALTERATION

Language in red indicates current updates

* indicates enclosure

RULE G – WETLAND ALTERATION

RULE H – BRIDGE AND CULVERT CROSSINGS

RULE I – BUFFERS

13. **2022-004 8395 Ox Yoke Circle.** Plan Pools has applied for a permit for floodplain alteration to construct an inground pool. The pool is located in the rear yard of a private residence located north of Ox Yoke Lake. Due to the pool being located within the FEMA floodplain compensatory storage is required such that no net fill is placed within the floodplain. This project was reviewed for Rule F.

14. **2022-05 Koch Farm, Sanctuary.** The Koch Farm Sanctuary development is a 33 lot 141.4-acre residential development located in the City of Independence. The development is proposing to handle stormwater rate control with 9 NURP basins located within the development. Due to confining soils and high groundwater levels infiltration or filtration is not feasible. The applicant is creating sections of tree preservation and is also providing additional buffer to gain abstraction credits to offset the lack of infiltration. Additional wetland buffer and tree preservation generate 0.5" of credit over their proposed areas. Stormwater ponds within the development will be maintained by the property owners/HOA, an operations and maintenance declaration has been obtained and well be recorded with the lots. Water quality modeling for the site indicates that a 32% reduction in total phosphorus and a 56% reduction in total suspended solids will be achieved. A stream crossing for a mixed use path that connects this development with the development to the south was required by the City of Independence. This project was reviewed for Rule D, Rule E, Rule H, and Rule I.

15. **2022-06 Creekside Meadows,** is a 15 lot 79.2 acre residential development located within the City of Greenfield. The development is proposing to handle stormwater with 3 biofiltration basins. The bio-filtration basins and land use change are expected to reduce phosphorus runoff by 48% and total suspended solids runoff by 41%. Additionally, the bio-filtration basins are providing some abstraction that is working to reduce the volume of runoff that is leaving the site. The engineer has supplied a SWPPP for the development that meets all watershed rules. The developer has not supplied a buffer maintenance plan that outlines establishing the new wetland buffers. The project was reviewed for Rule D, Rule E, and Rule I.

16. **2022-07 7655 County Road 15,** is a residential dwelling construction that is in close proximity to the wetland surrounding Whale Tail Lake. The home builder is proposing to build a residential home, septic sites, and relocate an existing driveway. The proposed building pad is located greater than 100 feet away from the wetlands and silt fence is being provided down gradient from all earth moving activity.

17. **2022-09 Gale Woods Accessibility,** is a project from TRPD that is proposing ADA improvements to the boat launch located at the Gale Woods Farm located on the south eastern side of the south bay of Whaletail Lake in Minnetrista. The project is proposing to create ADA accessible parking spaces to access the boat landing and pier. The project is located with in the floodplain for Lake Whaletail,

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18. **2022-10 Pioneer Highlands**, is a 67 acre rural residential development located in the city of Medina. The development is located roughly half in the Pioneer Sarah Creek Watershed and half in the Elm Creek Watershed. It was agreed that the project would need to obtain a permit from only PSC WMC providing communication with the Elm Creek watershed engineer. The site contains a large closed basin wetland on site. Ultimately the site would drain to both Spurzem Creek and Rush Creek South Fork. Though additional wetland buffer was provided to meet stormwater abstraction requirements, stormwater management was not proposed as part of this project. The project currently does not meet state stormwater requirements that are outlined in the construction general permit section 15. The applicant was asked to revise and resubmit meeting state stormwater requirements.
19. **2022-11 Burgess Residence**, is a residential dwelling construction that is in close proximity to the wetland surrounding Schwappauff Lake. The home builder is proposing to build a residential home, septic sites, and driveway. The proposed building pad is located greater than 100 feet away from Schwappauff Lake and silt fence is being provided surrounding all earth moving activity. The project was reviewed for Rule E.
20. **2022-12 Bridgevine Subdivision**, is a 47.5 acre residential subdivision located within the City of Independence on the south shoreline of Lake Independence. The development is proposing to handle stormwater via curb and gutter with inlets and storm sewer. There will be 2 filtration basins located within the development that will capture and treat the water quality volume before being discharged. The site generally flows in 3 directions, to the north discharging into an onsite gully that is identified in the Lake Independence and Lake Sarah SRA as GS46. The eastern part of the site discharges into an offsite gully that is also identified in the Lake Independence and Lake Sarah SRA as GS50 or the Baker Park Ravine, which has recently been stabilized by a project lead by TRPD. The western portion of the site discharges under South Lake Shore Drive into an existing gully that eventually discharges into Pioneer Creek. The development plans do not address the erosion that is taking place in GS46 and the placement of the stormwater pond outlet is likely to increase erosion in the gully. Additionally, the on-site drainage is being modified and additional water is being directed towards GS50 which may lead to an increase in erosion. A SWPPP has not been provided. The project was reviewed for Rule D, Rule E, and Rule I.
21. ***2022-12 Bridgevine Grading Permit**, is a 47.5 acre residential subdivision located within the City of Independence on the south shoreline of Lake Independence. The developer has obtained a grading permit from the City of Independence to comment with grading activities relating to the Bridgevine subdivision project. To facilitate the developer will take the appropriate time to address some site concerns a grading permit will allow them to start construction. The project was reviewed for Rule E.

- 22. 2022-13 Promise Hill Residence**, is a large single family residential dwelling demolition and construction that will cause the disturbance of over 1 acre of land. The existing building and driveway contains approximately 0.75 acres of impervious surfacing, the new structure and driveway will contain approximately 0.70 acres of impervious surfacing resulting in a decrease of 0.05 acres of impervious surfacing. The project was reviewed for Rule E.
- 23. 2022-14 Hidden Lake Channel Excavation**, is a 2,138 cubic yard channel excavation with in Lake Independence. The excavation has been permitted through the DNR and was reviewed by the DNR Area Hydrologist. The Channel was initially excavated in the 1960s and was permitted for future maintenance. The channel has over time filled with sediment that the residents desire to remove. Spoils from the project will be land applied on a property adjacent to the channel excavation. The site has been reviewed and approved by the area hydrologist and is determined to be outside the 100-year floodplain. The project was reviewed for Rule E and Rule F.
- 24. 2022-15 Schaffer Residence**, is a residential dwelling construction that is located on the shore of Hafften Lake. The home builder is proposing to build a residential home, septic sites, and driveway as well as some lot grading to provide some flat yard space. The proposed building pad is located greater than 100 feet away from Hafften Lake and silt fence is being provided surrounding all earth moving activity. The project was reviewed for Rule E.
- 25. 2022-16 West Lindgren Channel Excavation**, is a 1,338 cubic yard channel excavation with in Lake Independence. The excavation is in the process of being permitted through the DNR and is being reviewed by the DNR Area Hydrologist. The Channel was initially excavated in the 1960s and was permitted for future maintenance. The channel has over time filled with sediment that the residents desire to remove. Spoils from the project will be land applied on a property adjacent to the channel excavation. The spoils site has not yet been determined. Once the site is chosen it will be reviewed by the DNR area hydrologist and PSC technical advisor to ensure the spoils are not placed within the 100-year floodplain. The project was reviewed for Rule E and Rule F.
- 26. 2022-17 Kettering Creek 2nd**, is a 32 lot 9.29-acre residential development located within the City of Greenfield. The development is proposing to handle stormwater with a biofiltration basin. The development appears to be part of an existing development that was initially constructed in 2004. Stormwater from the site flows away in 4 general directions predominantly to the north and to the south. All of the stormwater from the site eventually converges within the Crow River. The project documentation contains some modeling errors and inconsistencies that need to be addressed. Additionally, the plans do not contain a SWPPP. The project was reviewed for Rule D, Rule E, and Rule I.

27. **2022-18 Windsong Golf Club Expansion**, is a 125-acre golf club expansion project for the Windsong Farm Golf Club located in the City of Independence. The project has been recently reviewed by the City of Independence and has not fully addressed the stormwater management for the increased impervious surfacing that will be created. Wetland buffer requirements are not being addressed sufficiently to watershed standards. The project triggers review for Rule D, Rule E, Rule F, and Rule I.

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HENNEPIN COUNTY

MINNESOTA

DATE: October 13, 2022

TO: Pioneer-Sarah Creek Watershed Management Commission

FROM: Kris Guentzel; Hennepin County Department of Environment and Energy

RE: October Commission Project, Program, Outreach, and Grant Updates

Conservation Specialist Hiring

Applications closed earlier this month. County staff are reviewing applications and plan to hold phone interviews the week of October 17-21 and in-person interviews for finalists the first week of November. Commission Chair Joe Baker has agreed to serve on our review panel and the County is grateful for his help. We're hoping to have this person on staff in early December.

Subwatershed Assessments

Spurzem Creek Subwatershed Assessment

Update: Comments were provided by several city staff. Comments were generally minor and/or editorial but did provide helpful feedback for BMP placement and efficacy. These still need to be incorporated into a final draft, which will be provided to stakeholders to post to their websites (or use as they see fit).

Lake Rebecca Subwatershed Assessment

Update: The County's consultant has substantially completed the hydrologic and hydraulic (H&H) modeling and BMP report. The H&H model was recently provided to TRPD to assist in their engineering of the outlet channel into the lake. Staff are anticipating a draft version of the BMP assessment in the next month. The contract includes a third phase to support survey and design of projects to get work closer to shovel-ready, which is expected to be completed this fall and early winter.

Projects & Outreach

Lake Independence/Remaining Baker Park Ravine CWF Funds

a. 2772 Becker Road, Independence



Update: Project construction completed. See attached Request for Commission Action. County staff plan to invoice the Commission for this work at the November meeting.

b. 2000 Block Independence Road, Independence

Update: Project construction substantially completed in August and punch list work completed in September. County staff plan to invoice the Commission for this work at the November meeting.

Lake Rebecca/Zuhrah Shrine Horsemen (ZSH) (4505 CR 92, Independence) BMPs

Update: Zuhrah is working with NRCS to potentially improve their grazing operations and nutrient management. Drainage repair engineering and design was included in the Lake Rebecca Subwatershed Assessment Phase 3 work and is expected to occur this fall and early winter.

Buoys Pulled from Lake Independence and Lake Sarah

New: On October 13th, navigational buoys were pulled out of Lake Independence and Lake Sarah. Zebra mussels were found on the buoy anchors pulled east of the island. They ranged from the size of a pea to as large as a quarter. Tony Brough, who manages the county's aquatic invasive species prevention program, said this was the first time he's seen zebra mussels on the buoys in the lake. Both the size and distribution of the mussels suggests the population is becoming more established.



Good Steward Grants now open

Through November 15th, Hennepin Count is accepting applications for Good Steward Grants. These grants support work to protect local water quality and restore degraded habitats. Typical grants are \$10,000-\$20,000 but may be as high as \$25,000. Previous grants funded in the Pioneer-Sarah Creek Watershed include:

- 1) Shoreline restoration on the south shore of Lake Independence in 2018
- 2) Prairie restoration across 4.5 acres of developable, private lands in Independence in 2018.

This program has also funded several Opportunity Grant installations in Medina and Greenfield.

Information on the program, eligible applicants and projects, and how to submit a grant application can be found on our website: <https://www.hennepin.us/business/conservation/funding-assistance-natural-resources-projects>.

Take the Lake Pledge!

Join your Lake Independence or Sarah neighbors and take the pledge to prevent aquatic invasive species Let's celebrate all the activities we enjoy in and around our lake while protecting them from aquatic invasive species (AIS). AIS can cause irreparable damage to native fish and plant populations an affect our health, recreation, property values, and the economy.

Join Lake Pledge, a program developed in partnership with your neighbors. The program:

- Is family friendly
- Will help you learn how activities may unintentionally introduce AIS
- Takes just minutes each week to participate

Please let your city's and lakeshore associations know about this program. County staff have developed a media kit that has resources to help you share with your organization and with partners.

Join Lake Pledge today!

On a computer: <http://www.lakepledge.com>

On a mobile device: download the Lake Pledge app on Apple's App Store or Google Play