

elm creek

Watershed Management Commission

ADMINISTRATIVE OFFICE
3235 Fernbrook Lane
Plymouth, MN 55447
PH: 763.553.1144
email: judie@jass.biz
www.elmcreekwatershed.org

TECHNICAL OFFICE
Barr Engineering
4300 Market Point Drive, Suite 200
Minneapolis, MN 55435
PH: 612.834.1060
Email: jHerbert@barr.com

September 2, 2020

Representatives
Elm Creek Watershed Management Commission
Hennepin County, MN

The meeting packet for this meeting may be found on the Commission's website:
<http://www.elmcreekwatershed.org/minutes--meeting-packets.html>

Dear Representatives:

A regular meeting of the Elm Creek Watershed Management Commission will be held on **Wednesday, September 9, 2020, at 11:30 a.m.** **This will be a virtual meeting.**

To join the meeting, click <https://zoom.us/j/990970201> or go to www.zoom.us and click **Join A Meeting**. The meeting ID is **990-970-201**.

If your computer is not equipped with audio capability, you need to dial into one of these numbers:

+1 929 205 6099 US (New York)	+1 312 626 6799 US (Chicago)
+1 669 900 6833 US (San Jose)	+1 346 248 7799 US (Houston)
+1 253 215 8782 US	+1 301 715 8592 US

Meetings remain open to the public via the instructions above.

The Commission will suspend its regular meeting at 11:30 a.m. for the purpose of conducting a **public hearing** on three proposed capital improvements:

Project 2020-01: Livestock Exclusions, Buffers, Stabilizations, Corcoran and Rogers
Project 2020-02: Agricultural Best Management Practices Cost Share, Corcoran and Rogers
Project 2020-03: Enhanced Street Sweeper, Plymouth

The regular meeting will resume immediately after the public hearing concludes.

Please email me at judie@jass.biz to confirm whether you or your Alternate will be attending the regular meeting.

Thank you.



Judie A. Anderson
Administrator
JAA:tim

Encls: Meeting Packet

cc:	Alternates	Jim Herbert	Joe Waln	James Kujawa	DNR
	TAC Members	Kris Guentzel	Brian Vlach	Diane Spector	BWSR
	City Clerks	Kirsten Barta	Met Council	Official Newspaper	MPCA

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AGENDA

Regular Meeting and Public Hearing

September 9, 2020

The meeting packet may be found on the Commission's website: <http://elm creek watershed.org/minutes--meeting-packets.html>

Until further notice, all meetings will be held online to reduce the spread of COVID-19. To join this meeting, click <https://zoom.us/j/990970201> or go to www.zoom.us and click Join A Meeting. The meeting ID is 990-970-201.

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1. Call Regular Meeting to Order.
 - a. Approve Agenda.*
2. Consent Agenda.
 - a. Minutes last Meeting.*
 - b. Treasurer's Report and Claims.*

Suspend meeting

3. Public Hearing for Capital Improvement Projects
 - Project 2020-01: Livestock Exclusions, Buffers, Stabilizations, Corcoran, Rogers*
 - Project 2020-02: Agricultural Best Management Practices Cost-Share, Corcoran, Rogers*
 - Project 2020-03: Enhanced Street Sweeper, Plymouth*
 - a. Staff Report.*
 - b. Commission discussion.
 - c. Open Public Hearing.
 - 1) Receive comments from member cities.
 - 2) Receive comments from public.
 - d. Close public hearing.
 - e. Commission discussion.
 - f. Consider Resolution 2020-02 Ordering 2020 Improvement Projects.*
 - g. Approve Cooperative Agreement* with City of Plymouth.

Resume meeting.

4. Open Forum.
5. Action Items.
 - a. Project Reviews – see Staff Report.*
 - b. Policy on Project Review Fees.*
6. Old Business.

(over)

*in meeting packet
**available at meeting or on website

Elm Creek Watershed Management Commission

Regular Meeting and Public Hearing Agenda – September 9, 2020

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7. New Business.
8. Communications.
 - a. Staff Report.*
 - b. Conservation Projects – no report this month.
 - c. Technical Services Budget Update.*
 - d. FEMA Mapping Project Update.*
9. Education.
 - a. WMWA – next meetings – September 8 and October 13, 2020, at 8:30 a.m.
These will be **virtual** meetings.
10. Grant Opportunities and Updates.
11. Project Reviews.

Item No.	A	E	I RPF	AR	Project No.	Project Name
			RP D			
					W Denotes wetland project	
ah.				AR	2014-015	Rogers Drive Extension, Rogers.
ai.				AR	2015-030	Kiddiegarten Child Care Center, Maple Grove.
aj.				AR	2016-002	The Markets at Rush Creek, Maple Grove.
ak.				AR	2016-005W	Ravinia Wetland Bank Plan, Corcoran.
al.				AR	2016-047	Hy-Vee North, Maple Grove.
am.				AR	2017-014	Laurel Creek, Rogers.
an.				AR	2017-029	Brayburn Trails, Dayton.
ao.				AR	2017-039	Rush Creek Apartments, Maple Grove.
a.					2017-050W	Ernie Mayers Wetland/floodplain violation, Corcoran.
b.					2018-020	North 101 Storage, Rogers.
ap.				AR	2018-026	Windrose, Maple Grove.
aq.				AR	2018-028	Tricare Third Addition, Maple Grove.
c.					2018-046	Graco, Rogers
ar.				AR	2018-048	Faithbrook Church Phase 2, Dayton.
as.				AR	2019-001	Fernbrook View Apartments, Maple Grove.
at.				AR	2019-002	Parkside Villas, Champlin.
au.				AR	2019-021	Brenly Meadows, Rogers.
d.					2019-024	Boston Scientific, Maple Grove.
av.				AR	2019-027	Havenwood at Maple Grove.
aw.				AR	2019-032	OSI Expansion, Medina.
e.					2020-001	Outlot L, Markets at Rush Creek, Maple Grove.
f.					2020-002	Project 100, Maple Grove.
g.					2020-008	Ione Gardens, Dayton.
ax.				AR	2020-009	Stetler Barn, Medina.

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Regular Meeting and Public Hearing Agenda – September 9, 2020

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h.					2020-013	Territorial Greens Residential (West), Maple Grove.
i.					2020-014	Territorial Greens Residential (East), Maple Grove.
j.					2020-015	Dayton Interchange Business Center, Dayton.
k.					2020-016	Lennar Terr Road Development (Skye Meadow), Rogers.
l.					2020-017	Meadow View Townhomes, Medina.
m.					2020-021	Industrial Boulevard Extension Project, Rogers.
n.					2020-022	Elm Road Street & Utility Project, Maple Grove.
o.					2020-023	Ziegler Dayton Site Upgrades, Dayton.
p.					2020-024	Walti Culvert Exchange, Corcoran.
q.		E			2020-025	Paulsen Farms, Corcoran.
r.		E			2020-026	Rogers HS Addition and Renovation, Rogers.
s.	A	E			2020-027	Kariniemi Addition, Corcoran.
t.		E			2020-028	Perl Gardens, Plymouth.
u.					2020-028	Sundance Greens 5th Addition, Dayton.

= Action item E = Enclosure provided I = Informational update will be provided at meeting RPFI - removed pending further information
R = Will be removed RP= Information will be provided in revised meeting packet..... D = Project is denied AR awaiting recordation

12. Other Business.**13. Adjournment.**

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Regular Meeting Minutes August 12, 2020

I. A virtual meeting of the Elm Creek Watershed Management Commission was called to order at 11:31 a.m., Wednesday, August 12, 2020, by Chair Doug Baines.

Present were: Ken Guenthner, Corcoran; Doug Baines, Dayton; Joe Trainor, Maple Grove; Elizabeth Weir, Medina; Catherine Cesnik, Plymouth; Kirsten Barta and Kris Guentzel, Hennepin County Dept. of Environment and Energy (HCEE); Joe Waln, Barr Engineering; James Kujawa, Surface Water Solutions; Brian Vlach, Three Rivers Park District (TRPD); and Amy Juntunen and Judie Anderson, JASS.

Not represented: Champlin and Rogers.

Also present: Todd Tuominen, Champlin; Kevin Mattson, Corcoran; Nico Cantarero, Wenck Assocs., Dayton; Derek Asche, Maple Grove; Ben Scharenbroich, Plymouth; and Andrew Simmons, Rogers.

A. Motion by Guenthner, second by Trainor to approve the **agenda**.* *Motion carried unanimously.*

B. Motion by Guenthner, second by Trainor to approve the **minutes*** of the July 8, 2020 regular meeting. *Motion carried unanimously.*

C. Motion by Guenthner, second by Trainor to approve the August **Treasurer's Report** and **Claims*** totaling \$52,069.60. *Motion carried unanimously.*

[Weir arrived 11:35 a.m.]

II. Open Forum.

III. Action Items.

A. **2020-013 Territorial Greens West, Maple Grove.*** This is a 15.19-acre parcel located at the northwest corner of the intersection of CSAH 81 and Territorial Road. The site is proposed to be converted from an open grass/woodland/wetland/golf driving range area into a 208-unit apartment building and 13 townhomes. Grading and construction will disturb 12.7 acres and add 5.0 acres of new impervious areas. The project triggers Rules D, E, G, and I of the Commission's Stormwater Management Plan. In their findings dated July 31, 2020, Staff recommends approval contingent upon final wetland approvals. Motion by Weir, second by Trainor to approve this project with Staff's recommendations. *Motion carried unanimously.*

B. **2020-014 Territorial Greens East, Maple Grove.*** This is a 13.2-acre site located at the southerly terminus of Territorial Road. CR 81 and I-610 are to the south and the Elm Creek Park Reserve borders it to the north and east. Seventy-three (73) single-family townhomes creating 5.6 acres of new impervious area are proposed on the site. The project triggers Rules D, E, and G of the Commission's Stormwater Management Plan. In their findings dated August 3, 2020, Staff recommends approval contingent

RULE D - STORMWATER MANAGEMENT
RULE E - EROSION AND SEDIMENT CONTROL
RULE F - FLOODPLAIN ALTERATION

RULE G - WETLAND ALTERATION
RULE H - BRIDGE AND CULVERT CROSSINGS
RULE I - BUFFERS

*indicates enclosure

CHAMPLIN - CORCORAN - DAYTON - MAPLE GROVE - MEDINA - PLYMOUTH - ROGERS

elm creek Watershed Management Commission

Regular Meeting Minutes – August 12, 2020

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upon final wetland approvals. Motion by Weir, second by Trainor to approve this project with Staff's recommendations. *Motion carried unanimously.*

C. 2020-021 Industrial Boulevard Extension, Rogers.* The City of Rogers is proposing to construct an extension to Industrial Boulevard. This will connect the road to CSAH 144 from the intersection with Edgewater Parkway. The City is also proposing to add turn lanes to accommodate access from CSAH 144 to the new Industrial Boulevard connection and replace the existing box culvert under CSAH 144 located ~1,000 feet west of the new intersection with the county road. This project will disturb 3.5 acres and increase impervious area by 2.2 acres. It triggers Commission Rules D, E and F. In their findings dated July 28, 2020, Staff recommends approval with no conditions. Motion by Weir, second by Trainor to approve this project. *Motion carried unanimously.*

D. 2020-022 Elm Road Street and Utility Project, Maple Grove.* This project encompasses the street and utility work for the Elm Road Development and street improvements for Elm Road between Vicksburg and Lawndale Lanes. The Commission approved the site plans and street and utility work for the Elm Road Development under project 2020-004. Elm Road construction from Vicksburg to Comstock Lane (stations 159+92-133+00) was part of 2020-004 approvals. This project review covers the Elm Road street and storm sewer work proposed by the City of Maple Grove between Comstock and Lawndale Lanes (Stations 133+00-100+85). It triggers Commission rules D, E, F, G and H. In their findings dated July 31, 2020, Staff recommends approval contingent upon DNR permitting of the new Elm Creek Road culverts and determination of the net decrease in flood storage capacity. Motion by Weir, second by Guenther to approve this project with Staff's recommendations. *Motion carried unanimously.*

E. 2020-023 Ziegler, Dayton.* This is an existing 4.73-acre commercial parcel located on Territorial Road near Holly Lane close to the Maple Grove/Dayton border. Currently the property consists of a building with bituminous drive and parking areas and a large gravel storage yard. The applicant is proposing to utilize the existing building, construct an additional commercial building, expand the bituminous parking lot, and add gravel lots for merchandise display and storage. It triggers Commission rules D, E, G and I. In their findings dated July 31, 2020, Staff recommends approval contingent upon wetland permitting being obtained and an Operation & Maintenance agreement per the Commission's standards being recorded on the land title. Motion by Weir, second by Trainor to approve this project with Staff's recommendations. *Motion carried unanimously.*

F. Motion by Weir, second by Guenther to call for a **public hearing*** on the three Capital Improvement Projects (CIPs) recommended for County levy. *Motion carried unanimously.* The hearing will be held during the Commission's September 9, 2020 regular meeting. The projects are 2020-01 Livestock Exclusion, Buffers, Stabilizations in the Rush Creek watershed; 2020-02 Agricultural Best Management Practices Cost-Share on private lands in the Rush Creek watershed; and 2020-03 Enhanced Street Sweeper in the City of Plymouth.

IV. Old Business.

At the July meeting Waln presented an update on the **Manufactured Treatment Device (MTD) workgroup**. He has updated his July presentation* in response to questions raised at that meeting. Future work includes reviewing the MPCA proposal for working with the Water Environment Federation (WEF) Stormwater Testing and Evaluation for Products and Practices (STEPP) and a possible seventh meeting to compile comments on the proposal. He stated that MPCA wants a certification process in place by the end of the year.

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[Weir departed 12:36 p.m.]

V. New Business.

VI. Communications.

A. August Staff Report.*

B. August Project Updates.*

VII. Education and Public Outreach.

WMWA. The **West Metro Water Alliance** will meet via Zoom at 8:30 a.m., Tuesday, September 8, 2020. At their August 11, 2020 meeting the group discussed activities that can safely be done this fall. Creation of the roots displays is also underway.

VIII. Grant Opportunities and Project Updates.

IX. Other Business.

A. The **projects** listed on the following page are discussed in the August Staff Report.

B. Adjournment. There being no further business, motion by Trainor, second by Baines to adjourn. *Motion carried unanimously.* The meeting was adjourned at 12:42 p.m.

Respectfully submitted,



Judie A. Anderson
Recording Secretary
JAA:tim

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RULE D - STORMWATER MANAGEMENT
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m.					2020-0020	Crow Hassan Streambank Stabilization , Rogers.
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Elm Creek Watershed Management Commission Treasurer's Report

		2020 Budget	Aug 2020	Sept 2020	2020 Budget YTD
EXPENSES					
Administrative		90,000	6,247.05	9,123.57	70,596.39
Watershed-wide TMDL Admin		300			0.00
Grant Writing		1,000			0.00
Website		3,000	955.75	87.10	2,743.00
Legal		2,000			139.50
Audit		5,000	6,000.00		6,000.00
Insurance		3,900			3,644.00
Miscellaneous/Contingency		1,000			0.00
Technical Support - HCEE		15,000			0.00
Floodplain Mapping		39,360	10,040.50	12,403.00	68,676.50
Project Review Technical (Job 300)		185,000	6,637.00	6,649.50	44,354.49
Other Technical (Jobs 100 & 200)			5,154.50	5,548.00	48,536.50
Project Reviews - Admin		15,000	1,148.22	646.71	5,453.60
WCA - Technical		3,000			0.00
WCA - Legal		500			0.00
WCA - Admin		1,000			0.00
Stream Monitoring USGS		24,000	15,705.00		15,705.00
Stream Monitoring TRPD		7,200			0.00
DO Longitudinal Survey		1,000			0.00
TMDL Follow-up - TRPD		1,000			0.00
Rain Gauge		250	32.83	30.97	239.80
Rain Gauge Network		100			0.00
Lakes Monitoring - CAMP		760			0.00
Lakes Monitoring - TRPD					
Sentinel Lakes		8,100			0.00
Additional Lake		2,500			0.00
Aquatic Vegetation Surveys		1,100			0.00
Wetland Monitoring (WHEP)		4,000			0.00
Education		3,000	35.00	175.00	1,182.89
WMWA General Activities		5,000			3,000.00
WMWA Educators/Watershed Prep		4,500			2,000.00
WMWA Special Projects		2,000			1,000.00
Rain Garden Workshops/Intensive BMPs		3,000			625.00
Education Grants		1,000			0.00
Macroinvertebrate Monitoring-River Watch		3,000			0.00
Projects ineligible for ad valorem		0			0.00
Studies / Project ID / SWA		0		1,277.07	2,185.74
Plan Amendment		2,000	113.75		1,409.24
Transfer to (from) Encumbered Funds (see below)					0.00
Transfer to (from) Capital Projects (see CIP Tr		448,935		443.00	443.00
Transfer to (from) Cash Sureties (see below)					2,386.70
Transfer to (from) Grants (see below)		125,000	-	-	0.00
To Fund Balance					0.00
TOTAL - Month			52,069.60	36,383.92	280,321.35
TOTAL Paid in 2020, incl late 2019 Expenses		1,012,505.00	366,021.75	402,405.67	2020 Paid

Elm Creek Watershed Management Commission Treasurer's Report

		2020 Budget	Aug 2020	Sept 2020	2020 Budget YTD
INCOME					
<i>From Fund Balance</i>					
Floodplain Modeling		39,360			
Project Review Fee		80,000	2,400.00		66,254.00
Return Project Fee					0.00
Water Monitoring - TRPD Co-op Agmt		5,500			0.00
WCA Fees		0			0.00
Return WCA Fee					0.00
Reimbursement for WCA Expense					0.00
WCA Escrow Earned					0.00
Member Dues		237,300			237,300.00
Interest/Dividends Earned		8,250	24.90		5,245.42
<i>Transfer to (from) Capital Projects (see CIP Tr</i>		448,935			155,012.64
<i>Transfer to (from) Cash Sureties (see below)</i>					
<i>Transfer to (from) Grants (see below)</i>		100,000	58,247.00	-	58,247.00
Misc Income					0.00
Total - Month			60,671.90	0.00	522,059.06
TOTAL Rec'd 2020, incl late 2019 Income		919,345.00	570,642.46	570,642.46	2020 Received
CASH SUMMARY		Balance Fwd			
Checking		0.00			
4M Fund		1,263,863.98	1,468,484.69	1,432,100.77	
Cash on Hand			1,468,484.69	1,432,100.77	
CASH SURETIES HELD		Balance Fwd			Activity 2020
WCA Escrows Received		11,494.47			0.00
WCA Escrow Reduced					2,386.70
Total Cash Sureties Held		11,494.47	9,107.77	9,107.77	
RESTRICTED / ENCUMBERED FUNDS		Balance Fwd			
<i>Restricted for CIPs</i>		765,131			765,131.00
<i>Enc. Studies / Project Identification / SWA</i>		205,437			205,437.00
Total Restricted / Encumbered Funds		970,568	970,568.00	970,568.00	
			Aug 2020	Sept 2020	2020 Budget YTD
GRANTS					
Fish Lake CWLA					
Revenue					-
Expense					-
Balance			-	-	-
BWSR Watershed-based Funding					
Revenue					-
Expense					-
Balance			-	-	-
DNR Floodplain Data					
Revenue			58,247.00		58,247.00
Expense					-
Balance			58,247.00	-	58,247.00
TOTAL GRANTS					
Revenue			58,247.00	-	58,247.00
Expense			-	-	-
Balance			58,247.00	-	58,247.00

Elm Creek Watershed Management Commission Treasurer's Report

Claims Presented		General Ledger Account No	August	September	TOTAL
Campbell Knutson - Legal		521000			0.00
Connexus - Rain Gauge		551100		30.97	30.97
Barr Engineering					24,600.50
Floodplain Mapping		580440		12,403.00	
Project Review Technical (Job 300)		578050		6,649.50	
Other Technical (Jobs 100 & 200)		578050		5,548.00	
Ravinia Wetland Mitigation		240201			
ECM Publishers					443.00
Hearing Notice Livestock Exclusions etc.		563022		147.67	
Hearing Notice Agricultural BMP Cost Share		563023		147.67	
Hearing Notice Enhanced Street Sweeper		563024		147.66	
JASS					11,309.45
Administration		511000		6,777.36	
TAC Support		511000		2,346.21	
Website		581000		87.10	
Project Reviews		578100		646.71	
Plan Amendment		541500			
Education		590000		175.00	
CIPs General		563001		1,277.07	
TOTAL CLAIMS					36,383.92

**Elm Creek Watershed Management Commission
2020 Treasurer's Report - Capital Improvement Project Tracking**

item 02b

CIPs		Amount	%age	TOTAL 2016	TOTAL 2017	TOTAL 2018	TOTAL 2019	JAN 2020	FEB 2020	MAR 2020	APR 2020	MAY 2020	JUN 2020	JUL 2020	AUG 2020	TOTAL 2020	TOTAL ALL YEARS
	2016-01 Fox Creek Phase 2 Bank Stabl	80,312.00	16.296														
	Revenue			-	80,353.26	(98.25)	(694.43)									-	79,560.58
	Expense			106.32	-	-	-									-	106.32
	Balance			(106.32)	80,353.26	(98.25)	(694.43)	-	-	-	-	-	-	-	-	-	79,454.26
	2016-05 Fish Lake Alum Trmt Phase 1	75,000.00	15.219														
	Revenue			-	75,042.75	(91.75)	(648.52)									-	74,302.48
	Expense			106.32	-	-	-									-	106.32
	Balance			(106.32)	75,042.75	(91.75)	(648.52)	-	-	-	-	-	-	-	-	-	74,196.16
	2017-01 Fox Creek Phase 3 Streambar	112,500.00	25.714														
	Revenue			-	-	112,347.11	10.83							26.68		26.68	112,357.94
	Expense			-	135.85	-	-									-	135.85
	Balance			-	(135.85)	112,347.11	10.83	-	-	-	-	-	-	26.68	-	26.68	112,222.09
	2017-03 Mill Pond Fishery & Habitat Res	250,000.00	57.143														
	Revenue			-	-	249,663.63	24.08							59.28		59.28	249,687.71
	Expense			-	135.86	-	-									-	135.86
	Balance			-	(135.86)	249,663.63	24.08	-	-	-	-	-	-	59.28	-	59.28	249,551.85
	2017-04 Rain Garden at Independence	75,000.00	17.143														
	Revenue			-	-	74,899.52	7.22							17.78		17.78	74,906.74
	Expense			-	135.85	-	-									-	135.85
	Balance			-	(135.85)	74,899.52	7.22	-	-	-	-	-	-	17.78	-	17.78	74,770.89
	2018-01 Rush Creek Ph 3 Main Stem S	75,000.00	30.000														
	Revenue			-	-	-	74,593.71							247.30		247.30	74,841.01
	Expense			-	-	115.18	-									-	115.18
	Balance			-	-	(115.18)	74,593.71	-	-	-	-	-	-	247.30	-	247.30	74,725.83
	2018-03 Elm Creek Phase III Stream Re	100,000.00	40.000														
	Revenue			-	-	-	99,461.35							329.73		329.73	99,791.08
	Expense			-	-	115.18	-									-	115.18
	Balance			-	-	(115.18)	99,461.35	-	-	-	-	-	-	329.73	-	329.73	99,675.90
	2018-04 Downs Road Trail Rain Garden	75,000.00	30.000														
	Revenue			-	-	-	74,593.71							247.30		247.30	74,841.01
	Expense			-	-	115.18	-									-	115.18
	Balance			-	-	(115.18)	74,593.71	-	-	-	-	-	-	247.30	-	247.30	74,725.83
	2019-01 Rush Creek Main Stem Ph 3	26,513.00	8.983														
	Revenue			-	-	-	-							13,841.42		13,841.42	13,841.42
	Expense			-	-	-	102.77									-	102.77
	Balance			-	-	-	(102.77)	-	-	-	-	-	-	13,841.42	-	13,841.42	13,738.65
	2019-04 Hickory Drive Stormwater Impr	81,471.00	27.604														
	Revenue			-	-	-	-							42,533.51		42,533.51	42,533.51
	Expense			-	-	-	102.78									-	102.78
	Balance			-	-	-	(102.78)	-	-	-	-	-	-	42,533.51	-	42,533.51	42,430.73

**Elm Creek Watershed Management Commission
2020 Treasurer's Report - Capital Improvement Project Tracking**

item 02b

CIPs		Amount	%age	TOTAL 2016	TOTAL 2017	TOTAL 2018	TOTAL 2019	JAN 2020	FEB 2020	MAR 2020	APR 2020	MAY 2020	JUN 2020	JUL 2020	AUG 2020	TOTAL 2020	TOTAL ALL YEARS
2019-05 Downtown Regional Stormwater		28,079.00	9.514														
	Revenue			-	-	-	-							14,659.60		14,659.60	14,659.60
	Expense			-	-	-	102.77									-	102.77
	Balance			-	-	-	(102.77)	-	-	-	-	-	-	14,659.60	-	14,659.60	14,556.83
2019-06 Elm Creek Restore Ph IV		159,075.00	53.899														
	Revenue			-	-	-	-							83,050.04		83,050.04	83,050.04
	Expense			-	-	-	102.78									-	102.78
	Balance			-	-	-	(102.78)	-	-	-	-	-	-	83,050.04	-	83,050.04	82,947.26
2020-01 Livestock Exclusions, Buffers, &																	
	Revenue			-	-	-	-									-	-
	Expense			-	-	-	-								147.67	147.67	147.67
	Balance			-	-	-	-	-	-	-	-	-	-	-	(147.67)	(147.67)	(147.67)
2020-02 Agricultural BMPs Cost Share																	
	Revenue			-	-	-	-									-	-
	Expense			-	-	-	-								147.67	147.67	147.67
	Balance			-	-	-	-	-	-	-	-	-	-	-	(147.67)	(147.67)	(147.67)
2020-03 Enhanced Street Sweeper																	
	Revenue			-	-	-	-									-	-
	Expense			-	-	-	-								147.66	147.66	147.66
	Balance			-	-	-	-	-	-	-	-	-	-	-	(147.66)	(147.66)	(147.66)
TOTAL CIP																	
	Revenue			249,795.17	494,329.63	436,392.95	458,031.53	-	-	-	-	-	-	155,012.64	-	155,012.64	1,925,132.05
	Expense			812.59	407.56	570.54	411.10	-	-	-	-	-	-	-	443.00	443.00	8,872.57
	Payments			245,276.36	1,836.48	322,859.09	352,173.28	-	-	-	-	-	-	-	-	-	922,145.21
	Balance			3,706.22	492,085.59	111,741.60	105,224.02	-	-	-	-	-	-	155,012.64	(443.00)	154,569.64	992,669.42
CLOSED PROJECT FUND																	
2014-02 Champlin Mill Pond Dam						82.31											82.31
2015-01 Plymouth Elm Creek Restoration						1,139.41											1,139.41
2014-01 Medina Tower Drive							120.35										120.35
	Balance Closed Project Fund																1,342.07
TOTAL CIP & Closed Project Fund																	994,011.49
COMPLETED PROJECTS \$0 BALANCE																	
2016-02 Miss River Shore Repair/Stabilization						COMPLETE											
2016-03 EC Dam at Mill Pond						COMPLETE											
2016-04 Rush Creek Main Stem Restoration						COMPLETE											
2018-02 Elm Creek Reach D Stream Restoration						COMPLETE											



Account Number:
481113-238425

item 02b

ELM CREEK WATERSHED MGMT ORG

Monthly Statement

Service Address
ELM CREEK RD
DAYTON MN

Billing Summary

Billing Date: Aug 17, 2020

Previous Balance	\$32.83
Payments - Thank You!	\$32.83
Balance Forward	\$0.00
New Charges	\$30.97

Total Amount Due **\$30.97**

Payment must be received on or before September 13, 2020

Total Amount Due

\$30.97

Due Date

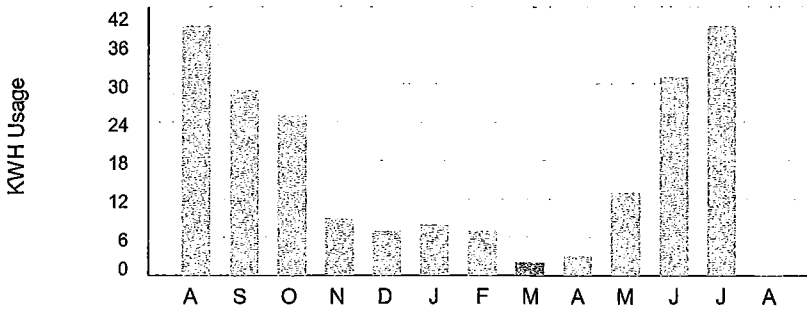
September 13, 2020

Message Center

Here is your Cash Back

Your Cash Back credit is included on this statement. You're getting Cash Back because you're a member of our cooperative. The amount is based on your annual electric purchases. For more information about our Cash Back program, visit us at connexusenergy.com.

Energy Comparison Previous Months' Usage Current Month's Usage



How to contact us

Member Services / Moving - 763-323-2650
Outages and Emergencies - 763-323-2660
Hearing/Speech Impaired Call - 711 or 800-627-3529
Email: info@connexusenergy.com
www.connexusenergy.com
Gopher State One Call - 811
14601 Ramsey Boulevard, Ramsey, MN 55303

▼ Please detach at perforation and return this portion with a check or money order made payable to Connexus Energy ▼

TRA3-D-007461/007223 AGYJNR S1-ET-M1-C00002 1



Account Number:

481113-238425

Total Amount Due

\$30.97

Payment Due By

September 13, 2020

007461 1 AB 0.416 003472/007461/007223 027 02 AGYJNR
ELM CREEK WATERSHED MGMT ORG
3235 FERNBROOK LN N
PLYMOUTH MN 55447-5325



Connexus Energy
PO Box 1808
Minneapolis, MN 55480-1808

00003097 0004811130238425 000000 00000 000000000000 0000002



INVOICE

Barr Engineering Co.
 4300 MarketPointe Drive, Suite 200
 Minneapolis, MN 55435
 Phone: 952-832-2600; Fax: 952-832-2601
 FEIN #: 41-0905995 Inc: 1966

Ms. Judie Anderson
 Elm Creek Watershed Management Commission
 JASS-Watershed Administrators
 3235 Fernbrook Lane
 Plymouth, MN 55447

August 28, 2020

Invoice No: 23271759.00 - 10

Total this Invoice	\$12,403.00
---------------------------	--------------------

Regarding: Elm Creek Floodplain Mapping

This invoice is for professional services, which include the following:

- Re-submitted hydrology model to the MnDNR (7/28)
- Compiled and reviewed survey data for hydraulic models
- Reviewed and incorporated bathymetry from effective FIS HEC-2 models
- Reviewed and incorporated the CLOMR/LOMR models received from the MnDNR
- Delineated additional cross-sections for non-detailed areas

Total Contract Budget	Total Prior Billing	Billing this Invoice	Total Billing to Date	Budget Remaining
\$90,945.00	\$58,247.00	\$12,403.00	\$70,650.00	\$20,295.00

Professional Services from July 25, 2020 to August 21, 2020

Job: 100 Meetings

Labor Charges

	Hours	Rate	Amount
Support Personnel II			
Nypan, Nyssa	.80	95.00	76.00
	.80		76.00
Subtotal Labor			76.00
		Job Subtotal	\$76.00

Job: 400 Hydrologic Analysis

Labor Charges

	Hours	Rate	Amount
Engineer / Scientist / Specialist II			
Hlavaty, Heather	1.90	110.00	209.00
Vecchi, Anthony	4.00	100.00	400.00
Engineer / Scientist / Specialist I			
Anderson, Edward	1.20	90.00	108.00
	7.10		717.00
Subtotal Labor			717.00

PLEASE REMIT TO ABOVE ADDRESS and INCLUDE INVOICE NUMBER ON CHECK.

Terms: Due upon receipt. 1 1/2% per month after 30 days. Please refer to the contract if other terms apply.

Job Subtotal \$717.00

Job: 500 Hydraulic Modeling - Detailed Studies

Labor Charges

	Hours	Rate	Amount	
Engineer / Scientist / Specialist IV				
Waln, Joseph	2.70	155.00	418.50	
Engineer / Scientist / Specialist II				
Hlavaty, Heather	2.90	110.00	319.00	
Vecchi, Anthony	82.60	100.00	8,260.00	
Engineer / Scientist / Specialist I				
Brown, Aaron	6.50	85.00	552.50	
Carlin, Megan	3.00	90.00	270.00	
	97.70		9,820.00	
Subtotal Labor				9,820.00
				Job Subtotal \$9,820.00

Job: 600 Hydraulic Analysis - Non Detailed

Labor Charges

	Hours	Rate	Amount	
Engineer / Scientist / Specialist II				
Vecchi, Anthony	17.90	100.00	1,790.00	
	17.90		1,790.00	
Subtotal Labor				1,790.00
				Job Subtotal \$1,790.00
				Total this Invoice \$12,403.00

	Current	Prior	Total	Received	A/R Balance
Invoiced to Date	12,403.00	58,247.00	70,650.00	58,247.00	12,403.00

Thank you in advance for your prompt processing of this invoice. If you have any questions, please contact Heather Hlavaty, your Barr project manager at 952.842.3613 or email at hhlavaty@barr.com.



INVOICE

Barr Engineering Co.
 4300 MarketPointe Drive, Suite 200
 Minneapolis, MN 55435
 Phone: 952-832-2600; Fax: 952-832-2601
 FEIN #: 41-0905995 Inc: 1966

Ms. Judie Anderson
 Elm Creek Watershed Management Commission
 JASS-Watershed Administrators
 3235 Fernbrook Lane
 Plymouth, MN 55447

September 1, 2020
 Invoice No: 23270F55.20 - 7

Total this Invoice	\$12,197.50
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Regarding: Review of development permits for compliance with the Elm Creek Watershed Management Plan

This invoice is for professional services, which include the following:

Job 100 - Technical Services

- Meetings
 - preparing for TAC and WMC meetings
 - attending TAC and WMC meetings
 - updating staff report
- Pre-Project Review
 - communicating with potential permit applicants regarding the following projects:
 - Gleason Fields artificial turf hydrology
 - Kariniemi Addition
 - Chippewa BFE
 - Tavera Comp plan amendment
- Wetland Issues
 - responding to TEP meeting coordination emails
- General administrative tasks
 - tracking fees and review spending for TAC discussions
 - coordinating with administrator

Job 200 – Other Assistance

- MTDs
 - preparing for meeting
 - attending meeting organized by MPCA

Job 300 – Project Reviews

- Reviewing the following projects for compliance with stormwater and erosion control rules:
 - 2020-008 lone Gardens, Dayton
 - 2020-013 Territorial Greens West, Maple Grove
 - 2020-014 Territorial Greens East, Maple Grove
 - 2020-015 Interchange Business Center, Dayton
 - 2020-016 Lennar Territorial Rd Development (Skye Meadows), Rogers
 - 2020-017 Meadow View Town Homes, Medina
 - 2020-020 Crow Hassan Riverbank Stabilization, Rogers
 - 2020-021 Industrial Blvd Extension, Rogers
 - 2020-022 Elm Road, Maple Grove
 - 2020-023 Ziegler Site Upgrades, Dayton
 - 2020-024 Paul Alti Culvert Replacement, Corcoran
 - 2020-025 Paulsen Farms, Corcoran
 - 2020-026 Rogers High School Addition and Renovations, Rogers
 - 2020-027 Kariniemi, Corcoran
 - 2020-028 Perl Gardens, Plymouth

PLEASE REMIT TO ABOVE ADDRESS and INCLUDE INVOICE NUMBER ON CHECK.

Terms: Due upon receipt. 1 1/2% per month after 30 days. Please refer to the contract if other terms apply.

Professional Services from July 25, 2020 to August 21, 2020

Job: 100 Technical Services
Task: 010 Meetings

Labor Charges

	Hours	Rate	Amount
Principal			
Herbert, James	8.10	200.00	1,620.00
Engineer / Scientist / Specialist IV			
Waln, Joseph	6.10	155.00	945.50
	14.20		2,565.50
Subtotal Labor			2,565.50

Subconsultant Charges

Subconsultants			1,072.50
Subtotal Subconsultant			1,072.50
Task Subtotal			\$3,638.00

Task: 020 Pre-Project Review

Labor Charges

	Hours	Rate	Amount
Engineer / Scientist / Specialist IV			
Waln, Joseph	.90	155.00	139.50
	.90		139.50
Subtotal Labor			139.50

Subconsultant Charges

Subconsultants			522.50
Subtotal Subconsultant			522.50
Task Subtotal			\$662.00

Task: 030 Wetland Issues

Labor Charges

	Hours	Rate	Amount
Principal			
Herbert, James	.50	200.00	100.00
Engineer / Scientist / Specialist IV			
Waln, Joseph	.10	155.00	15.50
Engineer / Scientist / Specialist III			
Wold, Karen	3.50	135.00	472.50
	4.10		588.00
Subtotal Labor			588.00
Task Subtotal			\$588.00

Task: 040 General

Labor Charges

	Hours	Rate	Amount
Principal			
Herbert, James	1.00	200.00	200.00

Support Personnel II
Nypan, Nyssa

1.00	95.00	95.00
2.00		295.00

Subtotal Labor	295.00
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Subconsultant Charges

Subconsultants	165.00
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Subtotal Subconsultant	165.00
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Task Subtotal	\$460.00
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Job Subtotal	\$5,348.00
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Job:	200	Other Assistance
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Task:	001	MTDs
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Labor Charges

Principal

Herbert, James

Hours	Rate	Amount
1.00	200.00	200.00
1.00		200.00

Subtotal Labor	200.00
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Task Subtotal	\$200.00
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Job Subtotal	\$200.00
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Job:	300	Project Reviews
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Task:	2008	2020-008 Ione Gardens
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Subconsultant Charges

Subconsultants	27.50
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Subtotal Subconsultant	27.50
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Task Subtotal	\$27.50
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Task:	2013	2020-013 Territorial Greens West
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Labor Charges

Engineer / Scientist / Specialist IV

Waln, Joseph

Hours	Rate	Amount
1.70	155.00	263.50
1.70		263.50

Subtotal Labor	263.50
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Subconsultant Charges

Subconsultants	577.50
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Subtotal Subconsultant	577.50
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Task Subtotal	\$841.00
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Task:	2014	2020-014 Territorial Greens East
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Labor Charges

	Hours	Rate	Amount	
Engineer / Scientist / Specialist IV				
Waln, Joseph	.70	155.00	108.50	
	.70		108.50	
Subtotal Labor				108.50

Subconsultant Charges

Subconsultants			247.50	
Subtotal Subconsultant				247.50
		Task Subtotal		\$356.00

Task: 2017 2020-017 Meadow View Townhomes

Labor Charges

	Hours	Rate	Amount	
Engineer / Scientist / Specialist IV				
Waln, Joseph	1.00	155.00	155.00	
Engineer / Scientist / Specialist III				
Koehler, Jennifer	.50	145.00	72.50	
	1.50		227.50	
Subtotal Labor				227.50
		Task Subtotal		\$227.50

Task: 2020 2020-020 Crow-Hassen Riverbank Stabilization

Subconsultant Charges

Subconsultants			110.00	
Subtotal Subconsultant				110.00
		Task Subtotal		\$110.00

Task: 2021 2020-021 Industrial Boulevard Extension

Labor Charges

	Hours	Rate	Amount	
Engineer / Scientist / Specialist IV				
Waln, Joseph	1.80	155.00	279.00	
	1.80		279.00	
Subtotal Labor				279.00

Subconsultant Charges

Subconsultants			110.00	
Subtotal Subconsultant				110.00
		Task Subtotal		\$389.00

Task: 2022 2020-022 Elm Road Street & Utility Project

Labor Charges

	Hours	Rate	Amount	
Engineer / Scientist / Specialist IV				
Waln, Joseph	2.10	155.00	325.50	
	2.10		325.50	
Subtotal Labor				325.50

Subconsultant Charges

Subconsultants			55.00	
Subtotal Subconsultant				55.00
Task Subtotal				\$380.50

Task: 2023 2020-023 Ziegler Dayton Site Upgrades

Labor Charges

	Hours	Rate	Amount	
Engineer / Scientist / Specialist IV				
Waln, Joseph	1.90	155.00	294.50	
	1.90		294.50	
Subtotal Labor				294.50

Subconsultant Charges

Subconsultants			275.00	
Subtotal Subconsultant				275.00
Task Subtotal				\$569.50

Task: 2024 2020-024 Walti Culvert Exchange

Subconsultant Charges

Subconsultants			110.00	
Subtotal Subconsultant				110.00
Task Subtotal				\$110.00

Task: 2025 2020-025 Paulsen Farms

Labor Charges

	Hours	Rate	Amount	
Engineer / Scientist / Specialist IV				
Waln, Joseph	4.00	155.00	620.00	
	4.00		620.00	
Subtotal Labor				620.00

Subconsultant Charges

Subconsultants			1,375.00	
Subtotal Subconsultant				1,375.00
Task Subtotal				\$1,995.00

Task: 2026 2020-026 Rogers High School Addition and Renovations

Labor Charges

	Hours	Rate	Amount	
Engineer / Scientist / Specialist IV				
Waln, Joseph	.40	155.00	62.00	
	.40		62.00	
Subtotal Labor				62.00

Subconsultant Charges

Subconsultants			770.00	
Subtotal Subconsultant				770.00

Task Subtotal \$832.00

Task: 2027 2020-027 Kariniemi Addition

Labor Charges

	Hours	Rate	Amount	
Engineer / Scientist / Specialist IV				
Waln, Joseph	.60	155.00	93.00	
	.60		93.00	
Subtotal Labor				93.00

Subconsultant Charges

Subconsultants			687.50	
Subtotal Subconsultant				687.50

Task Subtotal \$780.50

Task: 2028 2020-028 Perl Gardens

Labor Charges

	Hours	Rate	Amount	
Engineer / Scientist / Specialist IV				
Waln, Joseph	.20	155.00	31.00	
	.20		31.00	
Subtotal Labor				31.00

Task Subtotal \$31.00

Job Subtotal \$6,649.50

Total this Invoice \$12,197.50

	Current	Prior	Total	Received	A/R Balance
Invoiced to Date	12,197.50	80,573.50	92,771.00	80,573.50	12,197.50

Thank you in advance for the prompt processing of this invoice. If you have any questions, please contact Joe Waln, your Barr project manager at 952.832.2984 or email at jwaln@barr.com.

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 Coon Rapids, MN 55433
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 & INDICATE NEW ADDRESS

Page # 1

INVOICE

Invoice Date

8/27/2020

Invoice Number

791774

Ad Number

1066834

Terms

Net 30

Check Number

Amount Paid

ELM CREEK WATERSHED MGMT COMMISSION
 JUDIE ANDERSON
 3235 FERNBROOK LN
 PLYMOUTH, MN 55447

Account # 419241

\$443.00

ACCOUNT NUMBER	START DATE	STOP DATE	EDITION DATE	ACCOUNT REPRESENTATIVE
419241	08/20/20	08/27/20	8/27/2020	Osseo Legals 763-691-6001

Please return the upper portion with your payment. To pay by credit card, please visit: <https://crm.apgecm.com/BWWA/> or call 763-712-2494.

PUBLICATION	DATE	AD#	CLASS	DESCRIPTION/TAG LINE	TYPE	SIZE	QTY/TIMES	AMOUNT
Osseo MG Press	08/27/2020	1066834	150	September 9 PH - 2020 Projects	L	1.0 X 12.33	2	443.00

Project

2020-01 - \$ 147.67
 2020-02 - \$ 147.67
 2020-03 - \$ 147.66

Net Amount	443.00
Shipping	0.00
Tax	0.00
Amount Due	443.00

791774

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APG
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 finance charge per month (Minimum .50 per month).

AFFIDAVIT OF PUBLICATION

STATE OF MINNESOTA) ss
COUNTY OF HENNEPIN

Diane Erickson being duly sworn on an oath, states or affirms that he/she is the Publisher's Designated Agent of the newspaper(s) known as:

Osseo MG Champlin Dayton Press

with the known office of issue being located in the county of:

HENNEPIN

with additional circulation in the counties of:
HENNEPIN

and has full knowledge of the facts stated below:

- (A) The newspaper has complied with all of the requirements constituting qualification as a qualified newspaper as provided by Minn. Stat. §331A.02.
- (B) This Public Notice was printed and published in said newspaper(s) once each week, for 2 successive week(s); the first insertion being on 08/20/2020 and the last insertion being on 08/27/2020.

MORTGAGE FORECLOSURE NOTICES

Pursuant to Minnesota Stat. §580.033 relating to the publication of mortgage foreclosure notices: The newspaper complies with the conditions described in §580.033, subd. 1, clause (1) or (2). If the newspaper's known office of issue is located in a county adjoining the county where the mortgaged premises or some part of the mortgaged premises described in the notice are located, a substantial portion of the newspaper's circulation is in the latter county.

By: Diane Erickson
Designated Agent

Subscribed and sworn to or affirmed before me on 08/27/2020 by Diane Erickson.

**ELM CREEK MANAGEMENT COMMISSION
NOTICE OF PUBLIC HEARING**

TO WHOM IT MAY CONCERN:

Notice is hereby given that the Elm Creek Watershed Management Commission (ECWMC) will meet virtually on Wednesday, September 9, 2020, at approximately 11:30 a.m., or as soon thereafter as the matter may be heard, for a public hearing on the following improvements:

Project 2020-01: Livestock Exclusions, Buffers, Stabilizations
Location: Rush Creek Watershed in the cities of Corcoran and Rogers.
Description: Reduce sediment, bacterial, nutrient, and other pollutant loads into Rush Creek.

Cost: Estimated project cost will exceed \$53,025, borne by the cities of Corcoran and Rogers and local residents. The ECWMC proposes to fund \$53,025 by certifying this cost to Hennepin County for collection with the county ad valorem tax levy.

Project 2020-02: Agricultural Best Management Practices Cost-Share

Location: Private lands in the Rush Creek Watershed in the cities of Corcoran and Rogers.

Description: Series of projects primarily in the North Fork of Rush Creek such as grassed waterways, drainage management, manure storage, etc.

Cost: Estimated project cost will exceed \$53,025, borne by the cities of Corcoran and Rogers and local residents. The ECWMC proposes to fund \$53,025 by certifying this cost to Hennepin County for collection with the county ad valorem tax levy.

Project 2020-03: Enhanced Street Sweeper

Location: City of Plymouth

Description: Purchase of high-efficiency street sweeper to improve street sweeping efficiency and reduce pollutant load to Elm Creek.

Cost: Estimated project cost is \$350,000, borne by the City of Plymouth. The ECWMC proposes to fund \$79,538 by certifying this cost to Hennepin County for collection with the county ad valorem tax levy.

The Commission proposes to proceed under the authority granted by MN Statutes, Sec. 103B.251 to certify its share of the project cost to Hennepin County for payment by a tax levy on all taxable property located within the Elm Creek watershed. The watershed includes all or portions of the cities of Champlin, Corcoran, Dayton, Maple Grove, Medina, Plymouth, and Rogers. Maps of the watershed are available at the respective city halls or at

www.elmcreekwatershed.org

To join this meeting, click <https://zoom.us/j/990970201> or go to www.zoom.us and click Join A Meeting. The meeting ID is 990-970-201. If your computer is not equipped with audio capability, dial into one of these numbers: +1 929 205 6099 US (New York); +1 312 626 6799 US (Chicago); +1 669 900 6833 US (San Jose); +1 346 248 7799 US (Houston); +1 253 215 8782 US; or +1 301 715 8592 US.

Meetings are open to the public via these instructions.

Persons who desire to be heard with reference to the proposed improvements will be heard at this meeting. Written comments may be submitted to Doug Baines, c/o JASS, 3235 Fembrook Lane, Plymouth, MN 55447, or emailed to judle@jass.biz. Auxiliary aids for persons with handicaps are available upon request at least 7 days in advance. Please contact Judle Anderson at 763-553-1144 to make arrangements.

/s/ Doug Baines, Chair
By order of the Elm Creek Watershed Management Commission

Published in

The Press

August 20, 27, 2020

1066834

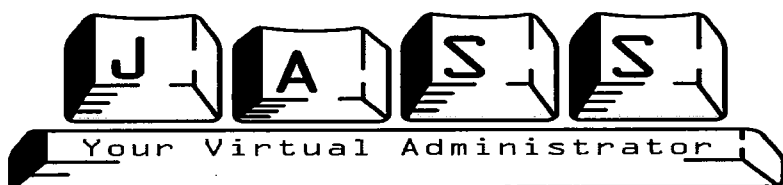
Darlene M MacPherson
Notary Public

**Rate Information:**

(1) Lowest classified rate paid by commercial users for comparable space:

\$17.90 per column inch

Ad ID 1066834



3235 Fernbrook Lane
Plymouth MN 55447

Elm Creek Watershed Management Commission
3235 Fernbrook Lane
Plymouth, MN 55447

2-Sep-20

Total by
Project Area

Administrative	1.75	60.00	105.00	
Administrative	55.41	65.00	3,601.65	
Admin - virtual	3.02	70.00	211.40	
Office Support	12.00	200.00	2,400.00	
Storage Unit	1.00	144.76	144.76	
Data Processing/File Mgmt		60.00	0.00	
File Management	1.75	60.00	105.00	
Archiving		60.00	0.00	
Admin - Reimbursable Expense	209.55	1.00	209.55	6,777.360
Admin - TAC support		60.00	0.00	
Admin - TAC support	31.57	65.00	2,052.05	
Admin - TAC support virtual	3.67	70.00	256.90	
TAC Support - Reimbursable Expense	37.26	1.00	37.26	2,346.210
Website		60.00	0.00	
Website	1.34	65.00	87.10	
Web Domain, hosting		1.00	0.00	87.100
Project Reviews - Secre		60.00	0.00	
Project Reviews - Admin	7.80	65.00	507.00	
Project Reviews - Admin offsite		70.00	0.00	
Project Reviews - Admin - File Mgmt		55.00	0.00	
Project Reviews - Reimbursable Expense	139.71	1.00	139.71	646.710
Education - Secretarial		60.00	0.00	
Education - Admin		65.00	0.00	
Education - Admin virtual - Blue Thumb Partner Event	2.50	70.00	175.00	
Education - Reimbursable Expense		1.00	0.00	175.000
CIPs - General - Secretarial		60.00	0.00	
CIPs - Administrative	19.36	65.00	1,258.40	
CIPs- Offsite Admin		70.00	0.00	
CIPs - reimbursables	18.67	1.00	18.67	1,277.070
Invoice Total			11,309.450	



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 Plymouth, MN 55447
 (763) 553-1144
 Fax: (763) 553-9326
 judie@jass.biz

To: Elm Creek Commissioners
From: Judie Anderson
Date: September 9, 2020
Subject: Public Hearing 2020 Levy

On May 13, 2020, the Elm Creek Watershed Management Commission, upon recommendation of the Technical Advisory Committee, agreed to move forward with a Minor Plan Amendment (MPA) to its Third Generation Watershed Management Plan to revise the Capital Improvement Program (CIP). The MPA would revise Table 4.5 of the Commission's Third Generation Plan CIP in order to add three projects, remove one project, add more specificity to two projects, and shift the timing of one project currently listed on the CIP. These new projects and project updates were submitted by the member cities. Following a public meeting conducted by the Commission on June 10, 2020, the Commission adopted Resolution 2020-02 Adopting a Minor Plan Amendment.

Elizabeth Weir, representative from Medina and Commission Vice Chair, was present at a meeting of a Committee of the Hennepin County Board on August 4, 2020, to answer questions regarding the amendment. The County Board approved the Minor Plan Amendment and adopted a 2020 maximum levy of \$185,588 for the Elm Creek Commission on August 11, 2020.

*At their August 24, 2020 meeting, the Technical Advisory Committee approved a motion to recommend to the Commission funding of 25% of the cost of only the enhancement to the Street Sweeper, not the entire piece of equipment as is currently stated in the CIP.

The cost of a regenerative air sweeper =	\$316,043
The cost of a mechanical broom sweeper =	<u>\$197,185</u>
The difference =	<u>\$118,858</u>
Twenty-five percent of the difference =	\$ 29,715
\$29,715 x 1.05% for administrative and other costs =	\$ 31,200
\$31,200 x 1.01% for levy shortfalls =	\$ 31,512

This action must be ratified prior to proceeding. The CIP will be revised to reflect this revision at the time of its next update.

The projects for which the levy will be certified are:

Project 2020-01	Livestock Exclusions, Buffers, Stabilizations, Corcoran, and Rogers	\$53,025
Project 2020-02	Agricultural Best Management Practices Cost-Share, Corcoran, and Rogers	\$53,025
Project 2020-03	Enhanced Street Sweeper, Plymouth	<u>\$31,512*</u>
		\$137,562

The Commission called for a public hearing to be held on September 9, 2020, to consider these projects. Member cities and the County have been notified and notice has been duly published.

COMMISSION ACTION

The purpose of the public hearing is to present the proposed projects and proposed financing and to take comment from the member cities and the public. The recommended order of business is as follows:

1. Suspend regular meeting
2. Staff report on projects and proposed financing

Elm Creek Watershed Management Commission
Public Hearing 2020 Levy
September 9, 2020
Page 2

3. Commission discussion
4. Open public hearing
5. Take comments from member cities
6. Take comments from public
7. Close public hearing
8. Commission discussion
9. Consider approving Resolution 2020-02.
10. Consider approving Cooperative Agreement with the City of Plymouth.
11. Resume regular meeting

Revisions to CIP

CIP Line	CIP No.	Description	Est Project Cost	2014	2015	2016	2017	2018	2019	2020	2021-2024
1	2014-01	Tower Drive Improvements, Medina	3,437,300	68,750							
2	2014-02	Elm Creek Dam at Mill Pond, Champlin	350,000	62,500							
5	2015-01	Elm Creek Reach E, Plymouth	1,086,000		250,000						
6	2016-01	Fox Creek Creekview Restoration, Rogers	321,250			80,312					
7	2016-02	Miss Point Park Riverbank Repair, Champlin	300,000			75,000					
8	2016-03	EC Dam Miss River Shoreline Restora, Champlin	7,001,220			187,500					
9		Tree Thinning Bank Stabilization Project	50,000 annually			50,000	50,000	50,000	50,000		250,000 300,000
10	2017-01	Fox Creek Hyacinth Restoration, Rogers	360,000 450,000				90,000 112,500				
11		Fox Creek South Pointe Restoration, Rogers	90,000				22,500		22,500		
13	2016-04 2017-02** 2018-01 2019-01	Rush Creek Main Stem Restoration, MG	1,650,000			75,000	75,000	75,000*	25,000		75,000
14		Rush Creek South Stem Restoration, MG	675,000				168,750			168,750	
15	2018-02	EC Stream Restoration Reach D, Plymouth	850,000					212,500*			
17		Stone's Throw Wetland				112,500	112,500	112,500			
19	2019-02**	Ranchview Wetland Restoration, MG	2,500,000				250,000	250,000	125,000 250,000		125,000
20	2017-03	Mill Pond Fishery & Habitat Restora, Champlin	5,000,000				250,000				
22	2016-05	Fish Lake Alum Treatment Ph 1, MG	300,000			75,000					
23		Stonebridge Storm Sewer Retrofit, MG	200,000			50,000	50,000				
24	2017-04	Rain Garden Independence Ave, Champlin	300,000			75,000	75,000				
25		Mill Pond Raingardens, Champlin	400,000				100,000	100,000	100,000		100,000
27	2020-01	Livestock Exclusions, Buffers, Stabilizations, Corc/Rogers	50,000 annually					50,000		50,000	
28	2020-02	Agricultural BMPs Cost Share, Corcoran, Rogers	50,000 annually			50,000	50,000	50,000 20,000	100,000 150,000 180,000	50,000	
29		Cowley-Sylvan Connection BMPs, Rogers	300,000				75,000				

30		<u>Downtown Pond Expansion & Reuse, Rogers</u>	<u>406,000</u>				<u>101,500</u>				
31	2019-04	<u>Hickory Dr Stormwater Improve, Medina</u>						56,250 76,823	76,823		
32		<u>SE Corcoran Wetland Restoration</u>						<u>100,000</u>			
33	2019-05	<u>Downtown Regional SW Improve, Corcoran</u>						10,000 26,477	26,477		
34	2018-03	<u>EC Stream Restora Phase III, Champlin</u>	400,000					<u>100,000</u>			
35	2018-04	<u>Downs Road Trail Raingardens, Champlin</u>	300,000					75,000*			
36	2019-06	<u>EC Stream Restoration Phase IV, Champlin</u>						150,000	150,000		
37		<u>Lowell Pond Raingarden, Champlin</u>						100,000			
38	2019-03**	<u>Rush Creek Headwaters SWA BMPs, Corc/Rogers</u>									
40		<u>Brockton Ln WQ Improvements, Plymouth</u>									
42		<u>The Meadows Playfield, Plymouth</u>									
43	2020-03	<u>Enhanced Street Sweeper, Plymouth</u>	350,000							75,000	
44		<u>Fourth Generation Plan</u>	<u>70,000</u>								
45		<u>Elm Road Area Stream Restoration, MG</u>	<u>500,000</u>								
46		<u>Corcoran City Hall Parking Lot</u>	<u>40,000</u>								
47		<u>EC Stream Restoration Phase V Hayden Lake Outfall, Champlin</u>	<u>900,000</u>								
		TOTAL		131,250	250,000	492,812	437,500	462,500	295,138***	185,588***	

Projects certified for 2014 ad valorem tax levy
Project certified for 2015 ad valorem tax levy
Projects certified for 2016 ad valorem tax levy

**withdrawn

***includes 5% for administrative and other expenses and 1% to cover levy shortfalls

Projects certified for 2017 ad valorem tax levy
Projects certified for 2018 ad valorem tax levy

Projects certified for 2019 ad valorem tax levy
Projects proposed to be certified for 2020 ad valorem tax levy

PROJECT DESCRIPTIONS.

Project 2020-01 Livestock Exclusions, Buffers, Stabilizations within the Rush Creek watershed in the cities of Corcoran and Rogers. Funds will be split up among projects along the North Fork of Rush Creek, a feedlot moved out of the floodplain, tributary hydrologic restorations, and wetland restorations to reduce sediment, bacteria, nutrient, and other pollutant loads into Rush Creek. The total estimated cost is \$50,000 annually. The 2020 levy funding requested by the Commission for these projects is \$50,000, with remaining cost-share amounts covered by the cities of Corcoran and Rogers and grant opportunities. (The adjusted levy amount will be \$53,025.***)

Project 2020-02 Agricultural Best Management Practices Cost-Share within the Rush Creek watershed in the cities of Corcoran and Rogers. Series of projects primarily in the North Fork of Rush Creek subwatershed on private lands – generally ag practices such as grassed waterways, drainage management, manure storage, etc. The total estimated cost is \$50,000 annually. The 2020 levy funding requested by the Commission for these projects is \$50,000, with remaining cost-share amounts covered by the cities of Corcoran and Rogers, grant opportunities, and the landowners. (The adjusted levy amount will be \$53,025.***)

Project 2020-03 Enhanced Street Sweeper, Plymouth. Purchase of a high-efficiency street sweeper to improve street sweeping efficiency and reduce pollutant loading to Elm Creek and eventually Rice Lake to work toward TMDL goals as well as expand public education regarding street sweeping. Originally, the total estimated cost of \$350,000 was included on the CIP. Subsequently the Elm Creek Commission's Technical Advisory Committee recommended to the Commission that only the enhancement portion of the equipment (\$118,858) should be included on the CIP. With that revision, the 2020 levy funding requested by the Commission for the project is \$29,715. (The adjusted levy amount will be \$31,513.***) The City of Plymouth, the Shingle Creek and Bassett Creek WMOs and the Minnehaha WD will also participate in the funding of this equipment.

STAFF RECOMMENDATION

The Technical Advisory Committee has reviewed the feasibility reports for these projects and found them to be consistent with the Commission's requirements. Staff recommends that the Commission

1. Approve the resolution that accepts the reports,
2. Order the projects,
3. Certify the Commission's share of the costs of the projects to the county levy, and
4. Approve the cooperative agreement with the City of Plymouth.

***In November 2018 the Commission adopted a Close Project Account Policy which states, in part,

D. In order to minimize the occurrence of insufficient tax settlements received from the County, beginning with the 2019 levy (payable 2020):

1. Five percent (5%) will be added to the project cost for Commission administrative and other expenses. (Example: \$100,000 project x 105.0% = \$105,000)
2. The Commission will certify 101 percent (101%) of the total project cost to cover levy short falls. (Example: \$105,000 project x 101.0% = \$106,050)

ELM CREEK WATERSHED MANAGEMENT COMMISSION**RESOLUTION NO. 2020-02****ORDERING 2020 IMPROVEMENT PROJECTS, DESIGNATING
MEMBERS RESPONSIBLE FOR CONSTRUCTION, AND MAKING
FINDINGS AND DESIGNATING COMMISSION COST-SHARE FUNDING**

WHEREAS, on October 14, 2015, the Elm Creek Watershed Management Commission (Commission) adopted the *Elm Creek Watershed Management Commission Third Generation Watershed Management Plan*, (hereinafter, “Plan”); and

WHEREAS, the Plan includes a Capital Improvement Program (CIP); and

WHEREAS, on May 10, 2017, the Commission adopted a Minor Plan amendment that added two projects to the CIP, removed one project from the CIP, and shifted the timing of funding of four projects currently listed on the CIP; and

WHEREAS, on May 9, 2018, the Commission adopted a Minor Plan amendment that added eight projects to the CIP and shifted the timing of funding of one project currently listed on the CIP; and

WHEREAS, on May 8, 2019, the Commission adopted a Minor Plan amendment that added three projects to the CIP, removed one project from the CIP, and shifted the timing of funding of six projects currently listed on the CIP; and

WHEREAS, on June 10, 2020, the Commission adopted a Minor Plan amendment that added three projects, removed one project, added more specificity to two projects, and shifted the timing of one project currently listed on the CIP; and

WHEREAS, the Commission’s Cost Share Policy, adopted April 11, 2012, specifies a county tax levy under Minn. Stat. § 103B.251 as a source of the Commission's share of funding for projects proposed in the Commission’s CIP; and

WHEREAS, on June 10, 2020, the Commission received Feasibility Studies on Project 2020-01: Livestock Exclusions, Buffers, Stabilizations in the cities of Corcoran and Rogers; Project 2020-02: Agricultural Best Management Practices Cost-Share in the cities of Corcoran and Rogers; and Project 2020-03: Enhanced Street Sweeper in the City of Plymouth, (the “Projects”); and

WHEREAS, on September 9, 2020, following published and mailed notice in accordance with the Commission’s Joint Powers Agreement and Minnesota Statutes Section 103B.251, the Commission conducted a public hearing on the Projects.

NOW, THEREFORE, BE IT RESOLVED by the Board of Commissioners of the Elm Creek Watershed Management Commission as follows:

1. The Projects will be conducive to the public health and promote the general welfare and is in compliance with Minnesota Statutes Sections 103B.205 to 103B.255 (the “Act”) and with the Commission’s surface water management plan as adopted and amended in accordance with the Act.

2. The total cost of the Projects is estimated to be \$218,858.00.
3. The Commission receives, accepts, and approves the feasibility reports for the Projects, which Projects are hereby ordered.
4. Not more than \$129,715 will be paid by the Commission from proceeds received from Hennepin County pursuant to Minnesota Statutes, Section 103B.251, Subd. 6, and the Commission's Joint Powers Agreement. Additional costs will be paid by the respective cities wherein the projects reside, but no costs will be charged to other members of the Commission. The Commission understands that the County may pay such costs with taxes levied in 2020 and paid in 2021. The Administrator is directed to transmit a certified copy of this resolution to Hennepin County prior to October 1, 2020.
5. The cities wherein the projects reside are designated as the members responsible for contracting for the construction of Projects. Contracts for construction shall be let in accordance with the requirements of law applicable to said cities. The Cooperative Agreement for Project 2020-03 between the Commission and the City of Plymouth is approved and the Chair and Administrator are authorized and directed to execute the agreement. The Cooperative Agreements for Projects 2020-01 and 2020-02 will be approved and executed when the specific scope of work(s) is identified.

Adopted by the Commissioners of the Elm Creek Watershed Management Commission the ninth day of September, 2020.

Doug Baines, Chair

ATTEST:

(NO SEAL)

Judie A. Anderson, Administrator

**STATE OF MINNESOTA
COUNTY OF HENNEPIN**

I, Judie A. Anderson, do hereby certify that I am the custodian of the minutes of all proceedings had and held by the Board of the Elm Creek Watershed Management Commission, that I have compared the above resolution with the original passed and adopted by the Board of said Commission at a regular meeting thereof held on the ninth day of September, 2020, at 11:30 a.m., that the above constitutes a true and correct copy thereof, that the same has not been amended or rescinded and is in full force and effect.

IN WITNESS WHEREOF, I have hereunto placed my hand and signature this ninth day of September, 2020.

(NO SEAL)

Judie A. Anderson
Recording Secretary

**COOPERATIVE AGREEMENT
FOR
2020-03 PLYMOUTH ENHANCED STREET SWEEPER**

This Agreement is made as of this ____ day of _____, 2020, by and between the Elm Creek Watershed Management Commission, a joint powers watershed management organization (hereinafter the "Commission"), and the City of Plymouth, a Minnesota municipal corporation (hereinafter the "City").

WITNESSETH:

WHEREAS, the Commission has adopted the Elm Creek Watershed Management Plan as amended on June 10, 2020 (the "Plan"), a watershed management plan within the meaning of Minn. Stat., § 103B.231; and

WHEREAS, the Plan includes a capital improvement program ("CIP") that lists a number of water quality project capital improvements; and

WHEREAS, the water quality projects identified in the CIP include the **Enhanced Street Sweeper**, more fully described in Attachment One to this Agreement, which is hereby made a part hereof (the "Project"); and

WHEREAS, the Plan specifies that projects in the CIP will be partially funded by a County tax levy under Minn. Stat., § 103B.251; and

WHEREAS, on September 9, 2020, the Commission adopted a resolution ordering the Project, directing that it be purchased by the City and that the Commission's share of the Project costs be certified to Hennepin County for payment in accordance with Minn. Stat., § 103B.251; and

WHEREAS, it is expected that Hennepin County will levy taxes throughout the watershed for the Project, for collection and settlement in 2021; and

WHEREAS, the City is willing to purchase the Project on the terms and conditions hereinafter set forth.

NOW, THEREFORE, ON THE BASIS OF THE PREMISES AND MUTUAL COVENANTS AND AGREEMENTS HEREINAFTER SET FORTH, THE PARTIES AGREE AS FOLLOWS:

1. The Project will consist of improvements in the City as more fully described in Attachment One.
2. The City will prepare specifications for purchase of the Project. Specifications are subject to approval by the Commission's consulting engineer and the City of Plymouth City Engineer.
3. The City will advertise for bids and award contracts in accordance with the requirements of law. The City will award the contract and supervise and administer the purchase of the Project to assure that it is completed in accordance with the specifications. The City will require the contractor to provide all payment and performance bonds required by law. The City will require that the Commission be named as additional insured on all liability policies required by the City of the manufacturer. The City will require that the manufacturer defend, indemnify, protect and hold harmless the Commission and the City, their agents, officers, and employees, from all claims or actions arising from performance of the Project conducted by the

City. The City will supervise the work of the Project. However, the Commission may observe and review the work of the Project until it is completed.

4. The City will pay all expenses related to the purchase of the Project and keep and maintain complete records of its operational effectiveness.

5. The Commission will secure payment from the County in accordance with Minn. Stat., § 103B.251 in the amount of \$29,715.00. It is understood that tax settlement from the County is not expected to occur until 2021.

Out-of-pocket costs related to the Project, incurred and paid by the Commission for publication of notices, securing County tax levy, preparation of contracts, review of proposed contract documents and administration of this contract shall be repaid from funds received in the tax settlement from Hennepin County. Amounts received from the County, up to \$29,715.00, less reimbursement to the Commission of such expenses are available for reimbursement to the City for costs incurred by the City in the purchase of the Project. Reimbursement to the City will be made upon purchase and receipt of the Project and submittal of proof thereof. Reimbursement to the City will be made as soon as funds are available provided a request for payment has been received from the City providing such detailed information as may be requested by the Commission to substantiate costs and expenses.

6. Reimbursement to the City will not exceed the amount received from the County, up to \$29,715.00 for the Project less any amounts retained by the Commission for Commission expenses. All costs of the Project incurred by the City in excess of such reimbursement, including all costs incurred in excess of estimated Project costs due to unforeseen conditions or any other cause, shall be borne by the City or secured by the City from other sources.

7. All City books, records, documents, and accounting procedures related to the Project are subject to examination by the Commission.

8. The City will secure all necessary local, state, or federal permits required for the purchase of the Project.

9. The Project will be operated on land owned or easements held by the City.

10. The City will have ownership of the Project, and will maintain it in good operating condition in perpetuity or until such time as it is replaced with a like improvement.

11. The City will defend, indemnify, protect and hold harmless the Commission and its agents, officers, and employees, from any claims arising out of the purchase or maintenance of the Project, including environmental claims. Nothing herein shall be deemed a waiver of the limitations of liability in Minnesota Statutes, Chapter 466.

IN WITNESS WHEREOF, the parties have caused this Agreement to be executed below by their duly authorized officers on behalf of the parties as of the day and date first above written.

ELM CREEK WATERSHED
MANAGEMENT COMMISSION

By: _____
Its Chair

And by: _____
Its Administrator

CITY OF PLYMOUTH

By: _____
Its Mayor

And by: _____
Its Manager

ATTACHMENT ONE

elm creek

Watershed Management Commission

ADMINISTRATIVE OFFICE
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STAFF REPORT

September 2, 2020

a. 2017-050W Ernie Mayers Wetland/floodplain violation, Corcoran. The City of Corcoran contacted the Commission in December 2017 concerning drainage complaints on Mayers' property. Technical Evaluation Panels (TEPs) were held in 2017 and 2018 to assess the nature and extent of the violations and a restoration order was issued to Mayers. On October 30, 2018, an appeal of the restoration order was received by BWSR. *BWSR placed an order of abeyance (stay) on the appeal looking for a resolution between the LGU and Mayers*

The City of Corcoran assumed WCA LGU responsibilities from the Commission for this project on March 1, 2019. After numerous meetings, it appears that a resolution between the LGU and Mayers is not forthcoming. *At the request of the LGU this appeal can move forward at the BWSR office. To date, this has not been provided from the LGU. If BWSR staff determine the appeal is valid, it will go to an appeals board (BWSR staff) for a hearing and determination of the case. If the appeal is not valid, it will be dismissed and the restoration order with its enforcement provisions will be in effect.*

b. 2018-020 North 101 Storage, Rogers. This is an existing 3-acre lot in the northwest corner of Highway 101 and CR144. The current land use is a combination of mini-storage units and outdoor storage. The site is proposed for complete demolition and construction of seven new mini-storage buildings. At their July meeting the Commission approved Staff findings dated July 9, 2018, pending four items relating to abstraction requirements and the infiltration system. The applicant requested and was granted an extension to December 31, 2020, provided the review process with the City of Rogers does not expire. *No updates this month.*

c. 2018-046 Graco Expansion, Rogers. This project is the expansion of an existing building. The site is located in an area that has regional ponding provided for rate control purposes, but needs to account for water quality and abstraction requirements on site prior to discharging offsite as part of the improvements. The Commission granted conditional approval at their October 2018 meeting. Conditions of approval were to submit a SWPPP plan meeting requirements, clarify maintenance responsibilities for the iron enhanced sand filter, and a letter from the City of Rogers stating their intentions to provide the water quality deficit in an upcoming project. Staff confirmed several minor plan revisions remain in conformance with the original approval. This item will remain on the Staff report until such time as the water quality deficit has been made up. *No updates this month.*

d. 2019-024 Boston Scientific Weaver Lake Road, Building 2 East Addition, Maple Grove. Boston Scientific is building an addition on the east side of Building 2 to provide more production and office space for their existing facility. The project includes moving the existing service drive and site utilities on the east side of Building 2 to the east within the BS property to create space for the addition. About 1.9 acres of the site will be disturbed and 1.06 acres of impervious surface will be added. This project was being reviewed for compliance to Rules D, E, F, and I. Based on Staff findings dated September 11, 2019, at their September 11, 2019 meeting the Commission approved the project contingent upon: (1) a site plan providing the irrigation

RULE D - STORMWATER MANAGEMENT
RULE E - EROSION AND SEDIMENT CONTROL
RULE F - FLOODPLAIN ALTERATION

RULE G - WETLAND ALTERATION
RULE H - BRIDGE AND CULVERT CROSSINGS
RULE I - BUFFERS

Italics indicates new information

indicates enclosure

areas to be irrigated by the new system and (2) an operation and maintenance plan for the irrigation system approved by the City and the Commission and recorded on the land title. The applicant and their engineer are pursuing overall stormwater management alternatives for this and potential future projects. Updates will be provided to the Commission when the applicant resolves how they would like to proceed. The applicant's agent stated this project is on hold until 2021 due to COVID19 issues. They are proceeding with the overall stormwater management plans and hope to provide them to Staff in the near future.

e. 2020-001 Outlot L, Markets at Rush Creek, Maple Grove. Outlot L is a 1.55-acre lot located in The Markets at Rush Creek (Hy-Vee South) PUD development. This project is located just west of the Hy-Vee gas station and south of CR10. A 12,000 SF multi-tenant building and associated parking is proposed for this site. Stormwater management for this lot is part of the regional stormwater system approved by the Commission for project 2016-002. Commission rules require compliance with Rules D and E. On January 23, 2020, Staff administratively approved this project contingent upon receipt of a dated and signed set of final development stage plans. *This information has not been received to date.*

f. 2020-002 Project 100, Maple Grove, renamed *Minnesota Health Village (MHV)*. Ryan Companies is proposing to develop 100.6 acres of agricultural land into a mixed-use development consisting of office, medical, hospital, multi-family residential and senior living facilities. This site is situated between I-610 to the north, I-94 to the west and the Maple Grove Hospital to the east. The applicant is looking for approval of a regional stormwater management system to address the Commission's present-day requirements throughout the timeline for all the phases of this development. Additionally, they are requesting grading and erosion control approvals for Phase I of the development.

Phase I site plans consists of mass grading of approximately 35 acres in the southeast portion of the site to accommodate street and utilities, 383 parking stalls for the existing hospital and future building in this area. The Commission reviewed the concept plan for compliance with Rule D. In addition, it reviewed Phase I for compliance with Rules D, E, G and I. At their March 2020 meeting the Commission approved this project contingent upon the following conditions: Phase I site plans: (1) Feasibility to infiltrate stormwater in the filter bench areas of ponds 1 and 2 must be determined. If infiltration is considered feasible, design revisions and compliance with MPCA infiltration design criteria is required and (2) City, MN WCA, and Commission compliance on any wetland impacts must be adhered to. *These two items remain outstanding.*

Concept Site Plans: The overall stormwater management concept plan design meets the Commission's standards provided. (1) Feasibility to infiltrate stormwater in the future filter bench areas and biofiltration basins is determined. If infiltration is considered feasible, design revisions and compliance with MPCA infiltration design criteria is required. (2) Commission Project review and approval are required when future site development triggers a review. These two items are considered on-going and will come forward as this site develops. No other information is necessary at this time.

For Phase I and the Concept Plans: The Commission recommends the management of stormwater runoff to minimize the impacts of the application of chloride compounds on water resources by minimizing their use on roads, parking lots, sidewalks and other impervious surfaces. Toward that end, the Commission requests that existing and future landowners develop and implement a chloride management plan on all private parking and walking areas within this project to minimize chloride runoff into surface water on site. The primary element of such a plan is implementation and application of salt to these surfaces by an applicator with MPCA Level 1 Certification in Snow & Ice Control Best Practices.

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Note: The City of Maple Grove is looking at the feasibility to consolidate as many of the regional ponds for this site as possible while continuing to meet the regulations and goals of the approved plans. Commission staff will work with the City to ensure the Commission's requirements and approvals are compliant with any changes. This will be on-going as the site develops. *No new information was received in August for this project.*

g. 2020-008 Lone Gardens, Dayton. This project is located at the northwest intersection of CSAH 144 (Diamond Lake North) and 12 (Dayton River Road). The site is three agricultural properties totaling 48.29 acres. 112 new single-family residential lots creating 16.84 acres of new impervious surface area are proposed for this development. The Commission's review will be for compliance with Rules D, E, G, and I. Initial findings with no recommendations were provided in the April 2020. *The applicant requested and was granted an extension to October 21, 2020. Revised plans were received in August and are currently under review. If available, an update with recommendations will be provided at the meeting.*

h. 2020-013 Territorial Greens West, Maple Grove. This is a 15.19-acre parcel located at the northwest corner of the intersection of CSAH 81 and Territorial Road. The site is proposed to be converted from an open grass/woodland/wetland/golf driving range area into a 208-unit apartment building and 13 townhomes. Grading and construction will disturb 12.7 acres and add 5.0 acres of new impervious areas. The project triggers Rules D, E, G, and I of the Commission's Stormwater Management Plan. *Staff recommended approval contingent upon final wetland approvals. This approval was granted at the August 2020 meeting of the Commission. Wetland approvals have been noticed by the LGU (Maple Grove) This item will be removed from the report.*

i. 2020-014 Territorial Greens East, Maple Grove. This is a 13.2-acre site located at the southerly terminus of Territorial Road. CR 81 and I-610 are to the south and the Elm Creek Park Reserve borders it to the north and east. Seventy-three (73) single-family townhomes creating 5.6 acres of new impervious area are proposed on the site. *The project triggers Rules D, E, and G from the Commissions Stormwater Management Plan. This project was approved at the August 2020 meeting of the Commission contingent upon wetland permit approvals. Wetland approvals have been obtained and noticed by the LGU (Maple Grove). This item will be removed from the report.*

j. 2020-015 Dayton Interchange Business Center, Dayton. Scannell Properties is proposing to develop a 12-acre parcel of agricultural land into a 124,000 SF office/warehouse building with related infrastructure, creating 6.2 acres of new impervious area. This site is located west of CR 81 and north of Territorial Road near Holly Lane. The site plan triggers a Commission review for conformance Rules D, E, G and I. No recommendations are provided to the Commission at this time. The project review deadline was extended by Commission Staff to September 12, 2020. *This item will be denied if not extended by the applicant. An email to that effect was sent September 2, 2020.*

k. 2020-016 Skye Meadows, Rogers. Lennar Corporation is proposing to construct a residential development on 130 acres along Territorial Road. This site consists of six separate parcels located both north and south of Territorial Road (CR116) just west of Tilton Trail. There are 363 single-family residential units proposed, creating 38.73 acres of new impervious areas in seven phases. The Commission's review will be for conformance to Rules D, E, F, G, and I for all seven phases. Staff will review compliance for erosion and sediment controls for Phase 1 and 2 (initial grading proposed). Future site development must be reviewed for compliance to the approvals on this project plus future erosion and sediment controls. *Initial findings were provided to the applicant on June 19, 2020. No recommendations were provided to the Commission at that time. Revised plans were received August 24, 2020, too late to provide a recommendation to the*

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Commission in this packet. Because of a September 11, 2020 decision deadline, this item will be denied if not extended by the applicant. An email to that effect was sent to the applicant on September 2, 2020.

l. 2020-017 Meadow View Townhomes, Medina. This is a 22-acre site located south of Meander Road and north of Highway 55. Lennar Homes is proposing to build 125 townhomes with their necessary infrastructure on this site. A complete application was received on May 29, 2020. The plans call for 7.64 acres of new impervious areas. The Commission's review will be for conformance to Rules D, E, F, G, and I. *Initial findings were provided to the applicant on June 8, 2020. No recommendations were provided to the Commission at that time. Revised plans were received August 24, 2020, too late to provide a recommendation to the Commission in the September packet. Because of a September 11, 2020 decision deadline, this item will be denied if not extended by the applicant. An email to that effect was sent to the applicant on September 2, 2020.*

m. 2020-021 Industrial Blvd Extension, Rogers. The City of Rogers is proposing to construct an extension to Industrial Boulevard. This will connect the road to CSAH 144 from the intersection with Edgewater Parkway. The City is also proposing to add turn lanes to accommodate access from CSAH 144 to the new Industrial Blvd. connection and replace the existing box culvert under CSAH 144 located ~1,000 feet west of the new intersection with the county road. This project will disturb 3.5 acres and increase impervious area by 2.2 acres. It triggers the Commission's Rules D, E and F. *This item was approved by the Commission at their August 2020 meeting and will be removed from the report.*

n. 2020-022 Elm Road Street and Utility Project, Maple Grove. This project encompasses the street and utility work for the Elm Road Development and street improvements for Elm Road between Vicksburg and Lawndale Lanes. The Commission approved the site plans and street and utility work for the Elm Road Development under project 2020-004. Elm Road construction from Vicksburg to Comstock Lane (stations 159+92-133+00) was part of 2020-004 approvals. This project review covers the Elm Road street and storm sewer work proposed by the City of Maple Grove between Comstock and Lawndale Lanes (Stations 133+00-100+85) and triggers Commission rules D, E, F, G and H.. *Project review and findings were approved by the Commission at their August 2020 meeting. Approval is contingent upon the DNR permitting of the new Elm Creek culverts and an accounting of the net decrease in floodplain storage. The floodplain storage numbers have been received, but the DNR permit is still under review.*

o. 2020-023 Ziegler, Dayton. This is an existing 4.73-acre commercial parcel located on Territorial Road near Holly Lane close to the Maple Grove/Dayton border. Currently the property consists of a building with bituminous drive and parking areas and a large gravel storage yard. The applicant is proposing to utilize the existing building, construct an additional commercial building, expand the bituminous parking lot, and add gravel lots for merchandise display and storage. It triggers Commission rules D, E, G, and I. *The Commission approved this project at their August 2020 meeting contingent upon wetland permitting being obtained and an Operation & Maintenance agreement per the Commission's standards being recorded on the land title. As of this update, both items remain outstanding.*

p. 2020-024 Paul Walti Culvert Replacement, Corcoran. This is an existing driveway culvert on the North Branch of Rush Creek at 10420 Cain Road. An in-kind culvert replacement is proposed. This project triggers Commission Rule H. A DNR-protected waters crossing permit is also required. *Staff continues to work with Walti to ensure the replacement is in-kind.*

q. 2020-025 Paulsen Farms, Corcoran. This is an 88-acre parcel located south of CR 30 and east of

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Bechtold Road. Twenty (20) single family rural residential lots with 5.2 acres of new impervious areas are proposed on this site. Rules D, E and I will be reviewed for compliance to the Commission's rules and standards. *Initial findings have been provided to the applicant and are included in this month's packet. Current plans do not meet the Commission's standards. The Commission's deadline for a decision is September 21, 2020.*

r. 2020-026 2020 Rogers High School Addition and Renovations, Rogers. This project will disturb 3.35 acres and increase impervious coverage by 0.82 acres. A 35,000 SF building addition is proposed for the north side of the existing school. The applicant proposes to utilize the existing regional infiltration pond constructed in 2002 to accommodate these improvements. *This project triggers the Commission's rules D and E. Initial findings dated August 24, 2020 have been provided to the applicant and are included in this month's packet. Currently, site plans do not meet the Commission's standards. The project decision deadline is September 27, 2020.*

s. 2020-026 Kariniemi Addition, Corcoran. This is a 12.7-acre parcel located on Lot 3, Block 1 of the Rolling Hills Acres subdivision (ECWMC Project 2019-030) about a mile north of Highway. 55 on the east side of Rolling Hills Road. The applicant proposes to create three lots with a shared driveway for access along the northerly portion of the property. Project work will disturb 2.6 acres and create 0.83 acres of new impervious areas. *Staff's finding and a recommendation for contingent approval are included in this month's packet.*

t. 2020-027 Perl Gardens, Plymouth. This is two parcels, 9.56 acres in size, located in the northwest corner of County Road 101 and Medina Road. Based on the Elm Creek Watershed jurisdictional boundaries, the Elm Creek Watershed jurisdiction bisects this project. The northerly 7.06-acre parcel is within the Elm Creek watershed and the southerly 2.46-acre parcel is within the Bassett Creek Watershed. Forty-three (43) single family twin homes creating 4.56 acres of new impervious areas are proposed on this site. *Current site plans do not meet the Commission's requirements. Review and findings (attached in this month's packet) were provided to the applicant on August 28, 2020. No new information has been received to date. The project deadline for a decision is October 16, 2020.*

u. 2020-028 Sundance Greens 5th Addition. This project is part of a larger residential development that was reviewed and approved as the Sundance Greens Development (Project #2018-005). The full development covers 310 acres west of County Road 121 (Fernbrook Lane N.) in and around the Sundance Green Golf Course. The full development will construct 645 new single-family homes with 100 units proposed as a senior housing facility. The 5th Addition will grade 75 acres for 212 lots. This review will check consistency of the stormwater management plans that were previously approved and erosion controls. *This project can be administratively approved by Staff. A complete application was not received in time to include findings in this month's packet.*

FINAL RECORDINGS OR OTHER DOCUMENTATION ARE DUE ON THE FOLLOWING PROJECTS: *(Staff last reached out to the cities for updates on these projects on March 4, 2020.)*

ah. 2014-015 Rogers Drive Extension, Rogers. This project involves improvements along Rogers Drive from Vevea Lane to Brockton Lane. The project is located east of I-94, south of the Cabela development. The total project area is 8.0 acres; proposed impervious surfaces total 5.6 acres. Site plans received July 1, 2014 met the requirements of the Commission with the exception of the nutrient control. The Commission approved the site plan contingent upon the City deferring 4.6 lbs. of phosphorus for treatment in future ponding opportunities as the easterly corridor of Rogers Drive develops. 2.3 lbs. will be accounted for in the Kinghorn Spec. Building site plan, with 2.3 lbs. still outstanding. This item will remain on the report until the total deferral is accounted for.

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ai. 2015-030 Kiddiegarten Child Care Center, Maple Grove. Approved December 9, 2015. If the City does not take over the operation and maintenance of the underground system and the sump catch basins, an O&M agreement for the underground trench/pond system must be approved by the Commission and the City and recorded with the title. On February 5, 2019 Derek Asche contacted the owner requesting a copy of the recorded maintenance agreement. No update was available on July 2, 2019.

aj. 2016-002 The Markets at Rush Creek, Maple Grove. This is a proposal to develop 40 acres of a 123-acre PUD located in the southwest quadrant of the intersection of CSAH 101 and CSAH 10. In 2016 the Commission granted Staff authority to administratively approve the project and report any updates. Updated plans with minor layout revisions were reviewed by Staff and administratively approved on July 24, 2018, contingent upon the Operations Manager requesting a copy of the recorded maintenance agreement. On March 4, 2020, Derek Asche reported that the agreement has been signed but not yet recorded. The City will have the document recorded to satisfy the final condition of this project.

ak. 2016-005W Ravinia Wetland Replacement Plan, Corcoran. In December 2016 the Commission approved Staff's recommendations on this wetland replacement plan. Final wetland impacts are 1.22 acres. Wetland credits created on site will be 4.01 acres. Excess credits of 0.75 acres are proposed to be used on Lennar's Laurel Creek development in Rogers (2017-014). All approval contingencies have been met and construction is completed.. Vegetation planting and management took place throughout 2017. Barr Engineering is providing monitoring to ensure the replacement meets the performance standards of the approved plans. Their first annual report was submitted to the US Army Corps of Engineers on February 7, 2019. Kevin Mattson indicated on October 2, 2019 that no further updates are available.

al. 2016-047 Hy-Vee North Maple Grove. The applicant is proposing to disturb 13 acres of a 20.4-acre site located at the northeast corner of Maple Grove Parkway and 99th Avenue for the purpose of constructing a grocery store, fuel station, convenience store and parking facilities. In findings dated January 10, 2017, Staff recommended approval of this project subject to three conditions. The Commission approved Staff's recommendations at their January 2017 meeting with the additional requirement that the Commission receive and comment on a WCA impact notice. (Also see Project 2019-023 99th Avenue Apartments. That project is part of this PUD and had the same requirements prior to approval.) WCA, Buffer easement protection and updated grading plans were received and approved by the Commission in February 2017. As of this update, the final outstanding item is the operation and maintenance agreement.

am. 2017-014 Laurel Creek, Rogers. In June 2017 the Commission approved this project with four conditions. All contingency items have been provided with the exception of the O&M agreement which is being negotiated by the City as to whether the City or the HOA will be responsible for the operation and maintenance of the stormwater management facility. On August 31, 2017, Andrew Simmons responded that the O&M agreement is still being negotiated.

an. 2017-029 Brayburn Trails, Dayton. At their August 2017 meeting the Commission approved Staff's findings dated August 2, 2017 with five conditions. All of the conditions have been met except for the final recordings of the O&M agreements and easements. On March 7, 2018, the City reported: final plat approval has not been granted, easements will be recorded as plats are approved. Ponds will be maintained by the City of Dayton. An agreement, and additional easement, will be required for a water re-use system within one of the ponds (between the City and HOA). This system is not part of the first addition – the timing of said improvements/agreement is unknown. Construction had been expected to start in 2018.

On February 7, 2019, Jason Quisberg provided the following information: The 1st Addition was scaled back from what was proposed; associated construction activity is significantly completed. Extension of trunk utilities through Sundance Golf Course are complete. The proposed 2nd Addition is under review. Improvements to 117th Avenue (East French Lake Road to Fernbrook Lane) will be part of the work done with the 2nd Addition. Construction is anticipated to start spring 2019. Pond easements are being recorded with the platting process for each addition (those [that are] part of the 1st Addition are in place). The water re-use system is not part of the 2nd Addition (will be with future additions).

ao. 2017-039 Rush Creek Apartments, Maple Grove. *At their May 13, 2020 meeting the Commission accepted Staff's findings dated April 29, 2020 and approved this project contingent upon:* (a) Maintenance access to the stormwater

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ponds must be provided and (b) The O&M plan for the stormwater management systems (biofiltration basin) must be provided for the Commission's approval. Said plans must be recorded on the property title and a copy of the recorded document must be provided to the Commission. *Item (a) has been resolved.*

ap. 2018-026 Windrose, Maple Grove. The Commission approved Staff's finding and recommendations dated July 20, 2018. Final plan approval is contingent upon verification of the wetland approvals by the City and the approval and recording of the operation and maintenance plan on the filter basins. On February 5, 2019 Derek Asche reported that the City will receive the agreement for the filter basins with the grading permit application.

aq. 2018-028 Tricare Third Addition, Maple Grove In their findings dated August 7, 2018, Staff recommended approval contingent on approval and recordation of the O&M plan on the filter basins. The Commission further recommended that the City consider an oil/debris type of separator in the parking lot manhole. It is a condition of the grading permit that the maintenance agreement is provided. No update was available on July 2, 2019. *The recorded agreement was received in the Commission offices on July 20, 2020. This item will be removed from the report.*

ar. 2018-048 Faithbrook Church, Phase 2, Dayton. This is an application for review of an expansion of an existing church located northeast of the intersection of Fernbrook Lane and Elm Creek Road. The Commission approved this project at their November 2018 meeting conditioned upon receipt of a SWPPP meeting NPDES requirements and the City accepting maintenance responsibility or recording a modified O&M plan for the stormwater features on the site in a form acceptable to the Commission. On February 7, 2019, Jason Quisberg reported that this project has gone idle; it is believed to be due to funding needs of the applicant. It was expected activity would resume in Spring 2019.

as. 2019-001 Fernbrook View Apartments, Maple Grove. This is a 4.85-acre rural residential lot located at the northeast intersection of CSAH 81 and Fernbrook Lane. The applicant proposes to construct a 2-story, 42-unit apartment building. This project was approved at the February 2019 Commission meeting with the following conditions: (1) the applicant pursue utilizing water from the NURP pond for irrigation needs for this property; (2) long term operation and maintenance on the stormwater basin must be addressed; (3) mean average pond depth must meet the Commission standard; (4) pond filter bench details must be provided. With the exception of the O&M plans, these conditions have been met by the applicant. This project was approved by the Commission's technical advisor per the updated project review dated February 5, 2020.

at. 2019-002 Parkside Villas, Champlin. This is two adjacent rural parcels totaling 13.9 acres that are proposed to be split into 56 single-family residential lots. It is located on the east side of Goose Lake Road just south of its intersection with Elm Road (CR 202). The review is for compliance with Commission Rules D and E. At their February 2019 meeting the Commissioners approved Staff's findings dated January 29, 2019, contingent on (1) a long term O&M agreement on the stormwater basin and irrigation system being provided and recorded on the property title and (2) the applicant working with the City and Three Rivers Park District to safely outlet the pond water below the trail system adjacent to the property line.

au. 2019-021 Brenly Meadows, Rogers. This is a 38-unit townhome project proposed on 6.9 acres north of 129th Avenue about one-third mile west of Main Street. It triggered the Commission's review for Rules D, and E. This item was approved by the Commission at their August 2019 meeting, contingent upon O & M plan requirements for the stormwater pond and irrigation system.

av. 2019-027 Havenwood at Maple Grove. This is a 5.6-acre site located at the northwest intersection of Bass Lake Road (CR10) and Troy Lane (CR101). The site is proposed to be subdivided into two lots. The southerly lot will be 4.5-acres with a 150-unit senior living facility. The remaining outlot (~1.3 acres) is anticipated to be a daycare facility. In their findings dated October 17, 2019, Staff recommended approval contingent upon the irrigation pond and system having an operation and maintenance plan approved by the City and Commission and recorded on the title for this property. A copy of the recorded document must be provided to the Commission.

aw. 2019-032 OSI Expansion, Medina. This an existing business located in the northwest corner of Highway 55 and Arrowhead Drive. The applicant is proposing to build an addition on the south side of the building and add parking to the north side of the site, creating an additional 3.6 acres of new impervious area. In their findings dated February 4, 2020,

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Staff recommended approval contingent upon receipt of O& M plans on the stormwater facilities that meet the Commission's requirements. *Dusty Finke reported on March 4, 2020, that recordation of the O&M plans is still pending.*

ax. 2020-009 Stetler Barn, Medina. This site disturbs approximately 3.5 acres and must meet Commission Rules D, E, and I. Because of the limited available space for pasture, paddocks and land application of manure, understanding how these components will be managed is also an important part of the review. A complete plan was received on April 22, 2020. *At their May 13, 2020 meeting the Commission approved this project* contingent upon: 1) The landowner continuing to work with the U of M Extension Office and Hennepin County Rural Conservationist to finalize composting, pasture and paddock management plans and 2) A long-term pond/basin operation and maintenance plan and agreement with the City of Medina being approved by the City of Medina and the Commission. The agreement must be recorded on the land title with a copy of the recorded agreement provided to the Commission.

BUFFER REVIEW

No report.

CONSERVATION PROJECTS

No report.

ELM CREEK FLOODPLAIN MAPPING PROJECT

Heather Hlavaty at Barr Engineering provided the following update for August:

Work conducted over the last month:

1. Re-submitted hydrology model to the MnDNR (7/28)
2. Compiled and reviewed survey data for hydraulic models
3. Reviewed and incorporated bathymetry from effective FIS HEC-2 models
4. Reviewed and incorporated the CLOMR/LOMR models received from the MnDNR
5. Delineated additional cross-sections for non-detailed areas

Work that is anticipated to occur over the month:

6. Incorporation of remaining data from the effective HEC-2 and CLOMR/LOMR data into the HEC-RAS hydraulic model
7. Internal QAQC of draft HEC-RAS hydraulic model
8. Development of hydraulic submittal memo
9. Identification of additional survey needs

Data/input we are waiting on from others

- Nothing at this time

Budget spent through 8/26/2020: \$ 70,650 (22% remaining)



September 9, 2020

TO: Elm Creek Watershed Management Commission (Commission)

FROM: Derek Asche, Chair, Technical Advisory Committee (TAC)

SUBJECT: POLICY ON PROJECT REVIEW FEES

The TAC has completed its review of fees generated with development review projects as well as expenses incurred for the review of such projects. The TAC notes the following:

- The TAC understands that, currently, development review projects put strain on the watershed budget. Under the existing structure, fees collected for the review of development projects do not offset the expenses incurred and, therefore, the cities annually subsidize the cost of development reviews through membership assessments.
- Some projects are overcharged and some undercharged.
- Pre-project expenses are incurred by the Commission prior to a formal application - assistance provided by the engineering consultants including phone calls, coordination with cities, wetland assistance, file management, and possibly other items.
- Administration expenses for development review projects are incurred by the Commission and include city/consultant coordination, project set-up, and possibly other items.

The TAC proposes moving from the current fee structure which is somewhat rigid, to a more flexible escrow structure where applicants will be required to fund the cost of the review in full. Further, the TAC proposes collecting an additional percentage of the cost of the project review to offset administration (10%) and technical service costs (15%). In the table below, 2019 development review revenues and expenses are compared with the proposed escrow structure. Had the proposed escrow structure been in place for 2019 development review projects, the Commission would have received an additional \$42,216.65 in revenue to cover the cost of these project reviews.

		2019 Fee Schedule	Proposed Escrow Structure
Revenue	Review Fee	\$45,874.00	\$70,473.00
	Administration Fee	\$0.00	\$7,047.30
	Technical Services Fee	\$0.00	\$10,570.35
	<i>Total</i>	<i>\$45,874.00</i>	<i>\$88,090.65</i>
Expenses	Review Expenses	\$70,473.00	\$70,473.00
	Administration Expenses	\$8,542.00	\$8,542.00
	Pre-Project Technical Services	\$21,236.00	\$21,236.00
	<i>Total</i>	<i>\$100,251.00</i>	<i>\$100,251.00</i>
	Net	-\$54,377	-\$12,160.35

RECOMMENDATION: The TAC recommends the proposed Policy on Project Review Fees including the escrow structure, recovering a portion of administrative and technical service costs, and limiting pre-project assistance to a maximum of two hours before a formal application is required.

ELM CREEK WATERSHED MANAGEMENT COMMISSION
DRAFT POLICY ON PROJECT REVIEW FEES

I. PURPOSE

The Elm Creek Watershed Management Commission (Commission) desires to:

- 1) Conserve, protect, and manage water resources through sound scientific principles consistent with State statutes; and
- 2) Minimize public capital expenditures needed to correct water quality problems; and
- 3) Minimize or eliminate member community subsidies for project review costs.

Land alteration and utilization can affect the rate and volume and degrade the quality of surface water runoff. The Elm Creek Watershed Management Commission has developed Rules and Standards to protect the public health, welfare, and natural resources of the watershed by regulating the alteration of land and waters in the watershed to 1) reduce the severity and frequency of high water, 2) preserve floodplain and wetland storage capacity, 3) improve the chemical and physical quality of surface waters, 4) reduce sedimentation, 5) preserve the hydraulic and navigational capacities of waterbodies, 6) promote and preserve natural infiltration areas, and 7) preserve natural shoreline features.

This policy on project review fees shall serve as the basis for the collection of funds to cover the cost of project reviews.

II. MINIMUM QUALIFYING CRITERIA FOR PROJECT REVIEWS

- 1) Plans of any land development or site development that disturbs more than one acre of land.
- 2) Linear projects that create one acre or more of new impervious surface.
- 3) Plans of any land development or individual site development adjacent to or containing a lake, wetland, or a natural or altered watercourse as listed in the Hennepin County wetland inventory or the final inventory of Protected Waters and Wetlands for Hennepin County, as prepared by the DNR.
- 4) Any culvert installation or replacement, bridge construction, stream cross-section alteration, or activity requiring a DNR Waters Permit on Elm, Rush, North Fork Rush, or Diamond Creeks or their tributaries.
- 5) Plans for any land development or site development within the 1% chance (100-year) floodplain as defined by the Flood Insurance Study for the member city or the Commission's flood study.
- 6) Plans of any land development or site development regardless of size, if such review is requested by a member city.
- 7) Land disturbing activity that drains to more than one watershed, for that portion of the site draining into the Elm Creek Watershed.

III. PROJECT REVIEW ESCROW STRUCTURE

The Elm Creek Watershed Management Commission requires an escrow to fund the cost of project reviews. Time and materials spent by the Commission reviewing an application shall be charged against the escrow. If the escrow is exhausted, reviews may continue and a decision made within statutory requirements; however, decisions by the Commission may be conditioned

upon the applicant funding the full cost of the review. Unused escrow funds shall be returned to the applicant upon a final decision being made by the Commission. The escrow shall be the sum of each individual rule requiring review, plus a 10% contingency, a 10% non-refundable administrative fee, and a 15% technical services fee per the following schedule:

			<u>Est. Cost</u>
1)	Rule D	Stormwater Management	\$2,000.00
2)	Rule E	Erosion and Sediment Control	\$500.00
3)	Rule F	Floodplain Alteration	\$1000.00
4)	Rule G	Wetland Alteration	\$0.00
5)	Rule H	Bridge & Culvert Crossings	\$1000.00
6)	Rule I	Buffer Strips	\$500.00
7)	Rule K	Variance	\$500.00
8)	Contingency		10%
9)	Administration ¹ (non-refundable)		10%
10)	Technical Services ² (non-refundable)		15%

EFFECTIVE DATE: _____

POLICY HISTORY: _____ (Initial Approval)
 _____ (Revision 1)
 _____ (Revision 2)

¹ Administrative Services includes city and consultant coordination and project set-up.

² Technical Services includes up to 2-hours pre-project assistance including but not limited to phone calls, city coordination, WCA assistance, file management.



Memorandum

To: Elm Creek Watershed Management Commission (ECWMC)
From: Barr Engineering Co. (Barr)
Subject: Item 8c. Technical Services Budget Update
Date: September 3, 2020
Project: 2327F55 2020

8c. Technical Services Budget Update

Summary:

Basis for Review at Commission Meeting: Informational

Recommendations: None

General Information

This is the first year ECWMC is not primarily using Hennepin County to provide technical support services. Barr and Surface Water Solutions have taken over this responsibility. This memo provides a mid-year financial status update to the ECWMC.

During 2019, the ECWMC approved a 2020 technical services budget of \$185,000. The ECWMC solicited letters of interest in August 2019 for 2020 technical services. Barr's August 30, 2020 letter of interest included an estimated budget of \$160,000 that was subdivided into five tasks. Although the approved budget and Barr's contract is for \$185,000, Barr has been managing to a \$160,000 budget that is consistent with its letter of interest.

Overall Budget

Barr has spent \$94,000 through the end of August 2020 and is projected to spend \$141,000 through the end of 2020 (approximately \$19,000 below the proposed \$160,000 budget and \$44,000 below the 2020 ECWMC \$185,000 budget).

Budget Tracking

During project setup, Barr staff worked with the administrator to define project accounting line items and invoice format to facilitate budget tracking. Additional detail was added to Barr's invoices in late spring at the request of the administrator to help track project review spending.

Figure 1 show Barr's actual spending through August 2020 (8 months).

Figures 2 and 3 show Barr's actual spending through August 2020 (8 months) for Project reviews and other technical services (as originally tracked)

Letter of Interest estimated budgets (5 tasks)

As noted, Barr's August 30, 2019 letter of interest identified the following five tasks and associated hours and budgets. The final column in the table lists spending on individual tasks through the end of August.

Task	Item	Estimated hours	Estimated cost	Cost through August 2020 (8 months)
1	Pre-project Review	250	\$27,625	\$4,600
2	Project Reviews	1,010	\$104,700	\$44,600
3	Meeting Attendance (includes meeting prep and post meeting tasks)	80	\$9,400	\$19,800
4	WCA Assistance	48	\$5,140	\$2,800
5	Misc. Technical Assistance (includes general tasks and MTDs)	110	12,950	\$22,300
Total		1,498	\$159,815	\$94,100

Work associated with the above tasks has been:

- (1) Phone calls, emails, and meetings to discuss permitting questions from potential applicants and city staff before a formal application has been submitted; preliminary review of materials.
- (2) Phone calls, emails, and meetings related to review of permit applications; review of application and submittals; presentations to the ECWMC.
- (3) ECWMC/TAC meeting attendance; pre-meeting coordination and conference calls; review agendas and packet.
- (4) Coordination and participation regarding TEP meetings; review historical WCA actions.
- (5) MTD work group meetings and ECWMC reports; coordination, communications and meetings with administrator, coordination with Surface Waters Solutions; coordination with administrator

To: Elm Creek Watershed Management Commission (ECWMC)
From: Barr Engineering Co. (Barr)
Subject: Item 8c. Technical Services Budget Update
Date: September 3, 2020
Page: 3

item 08c

regarding budgets and budget review; CAMP questions; coordination with administrator and D&B regarding obtaining DUNS number for ECWMC grant; file management assistance for project reviews; email regarding new DNR hydrologist; invoicing; ECWMC staff reports; TAC/ECWMC meeting prep and follow-up (early in year then billed to meeting attendance for last several months); TAC/HEC2 model questions; 2019 annual report App. G. updates; annual report mapping; USGS summary data for annual report; fee comparisons as part of TAC work.

Figures 4 and 5 show Barr's actual spending through August 2020 (8 months) for the five tasks identified in Barr's letter of interest. As shown in the graphs, Barr is projecting well under the ECWMC \$185,000 budget and the \$160,000 proposed budget. However, some of the individual line item budgets are over and some are under the estimated budget.

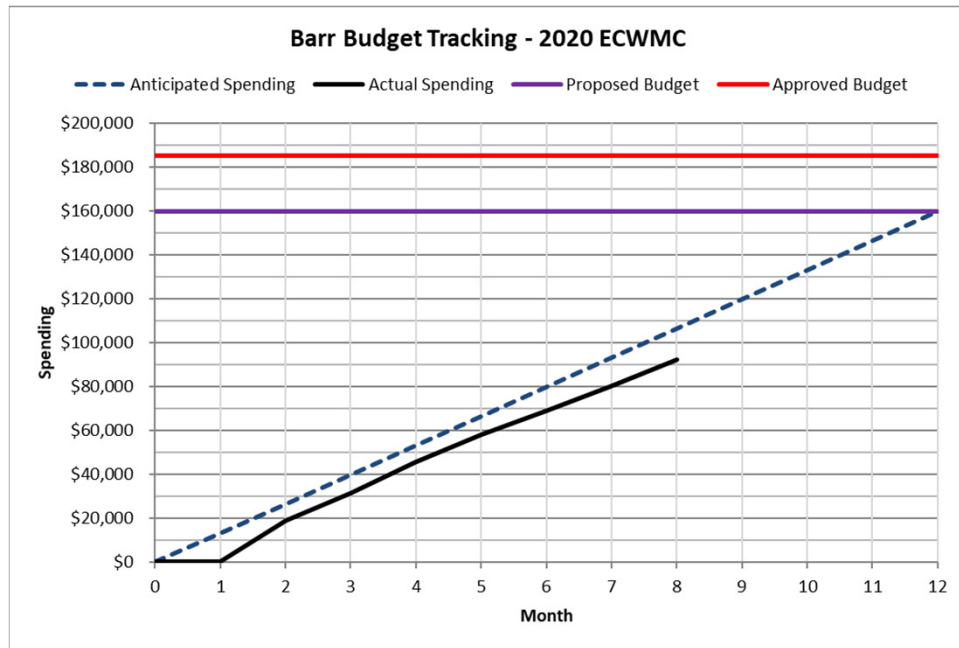


Figure 1

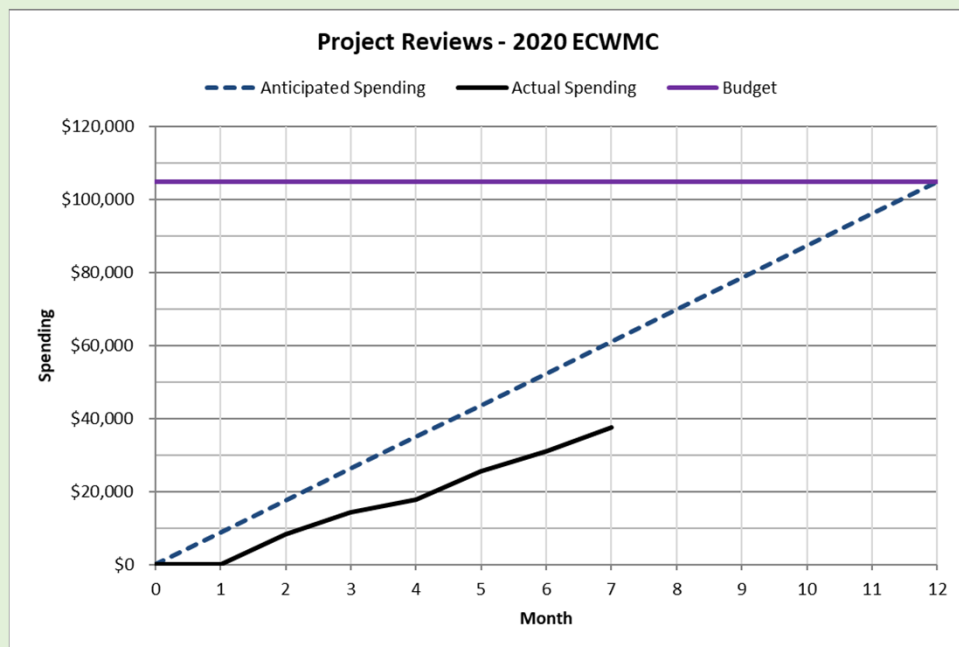


Figure 2

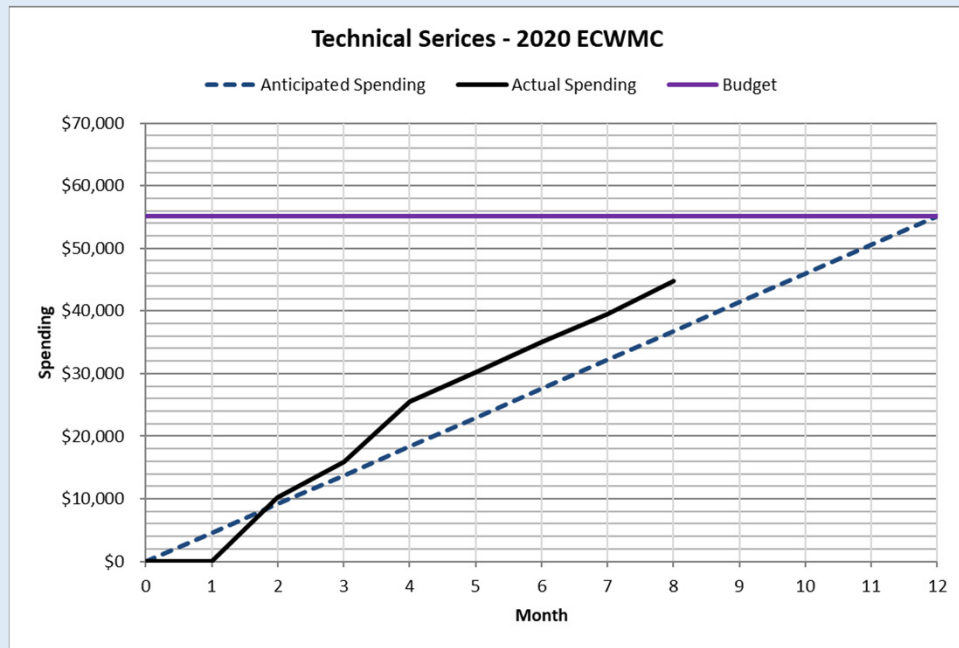
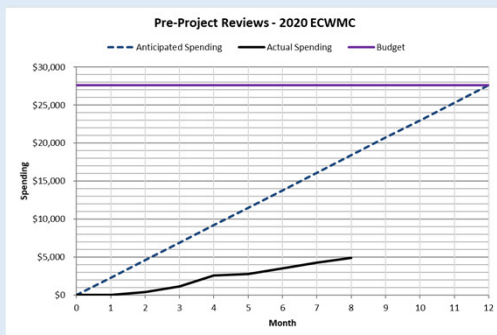
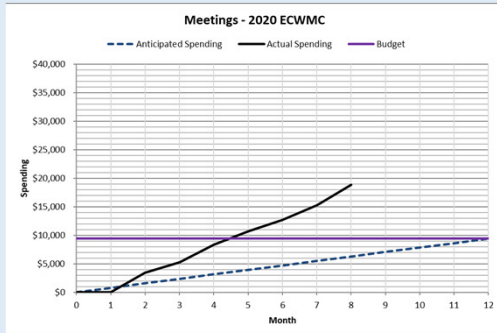


Figure 3



Technical Services

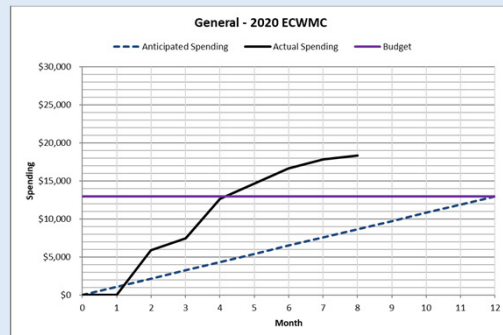
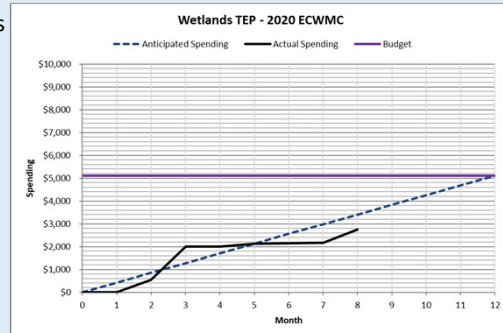


Figure 4

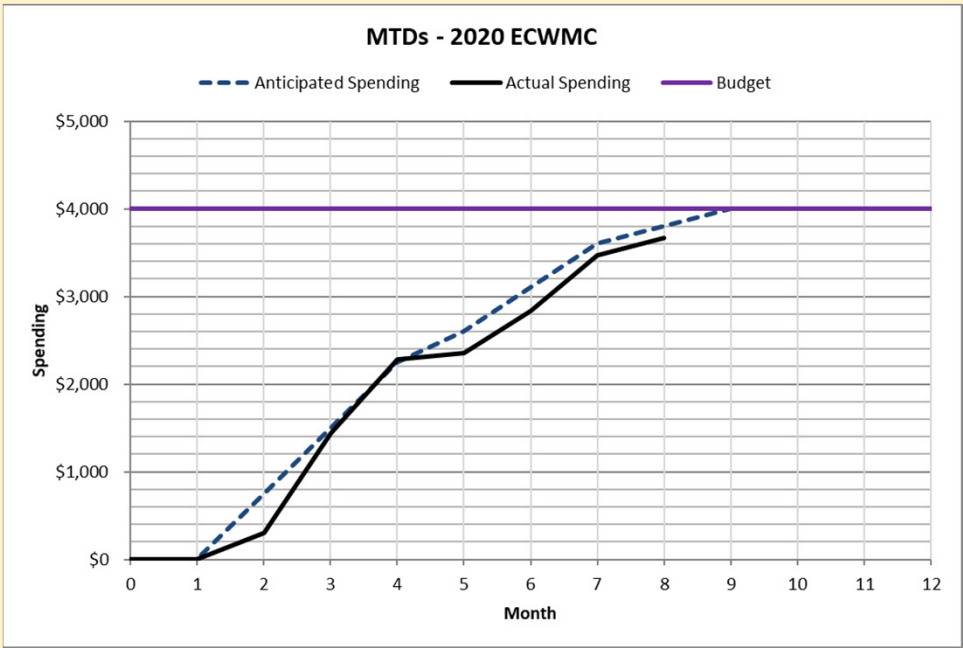


Figure 5



Memorandum

To: Elm Creek Watershed Management Commission (ECWMC)
From: Barr Engineering Co. (Barr)
Subject: Item 8d FEMA Floodplain Mapping Project
Date: September 9, 2020
Project: 2327F55 2020

8d. FEMA Floodplain Mapping Project

Summary

Basis for Review at Commission Meeting: Request budget increase due to scope change

Recommendation Action Items:

1. Request additional funds from Department of Natural Resources
2. Authorize up to \$25,000 funds from ECWMC Technical Services budget or the Studies, Subwatershed Assessments budget to cover the out of scope hydrologic modeling
3. Consider whether the TAC should review this request and report back to the Commission

General Project Information

Background

- The referenced project was originally planned to be performed by Hennepin County on behalf of the DNR and ECWMC.
- Due to Hennepin County staff departures, the ECWMC contracted with Barr to complete the study at its October 10, 2019 meeting.
- The objective of the project was to perform a new hydrologic analysis of the Elm Creek watershed and develop updated floodplain elevations and mapping.
- Major Tasks
 - Hydrologic Modeling
 - Hydraulic Modeling
 - Mapping
 - Report

Current Project Status

- DNR approved the Elm Creek hydrology submittal on August 17, 2020. However, the Hydrologic Modeling took a much greater effort than estimated in our initial budget.

- During model calibration Barr staff noticed that peak flows from the hydrologic model are significantly lower than FEMA Flood Insurance Study flows. This was unexpected and prompted extra scrutiny. Adopting lower flows would allow development closer to water bodies and with lower floor elevations. Additional work included:
 - Reviewing methodology of FEMA's original hydrologic analysis.
 - Approximating hydrologic results using other methods to verify that the results from Barr's model are reasonably similar to others approaches.
- Ultimately, Barr staff concluded that the lower flows are justified.
- DNR review of hydrologic model resulted in major changes to the model.
 - Six subwatersheds had to be subdivided into smaller watersheds.
 - The initial hydrologic model had 29 storage areas for mapping ponds and lakes. DNR requested an additional 21 storage areas for shallow depressions that may accumulate water during wet periods. Barr had assumed the shallow areas would be modeled with cross sections in the hydraulic model.
- Changes to the hydrologic model to address DNR comments required significant rework.
 - Developing of hydrologic inputs for the subdivided watersheds.
 - Defining storage area parameters.
 - Recalibrating the hydrologic model.
- Cost of the additional hydrologic modeling work has been \$25,000 more than was budgeted.
- Hydraulic modeling is approximately 50-percent complete and is on track to stay within budget.

Schedule

In early May, Barr informed the commission that the floodplain mapping study was two months behind schedule. The additional hydrologic modeling and longer than expected times for DNR reviews has pushed the schedule to three months behind. With no further delays, the project would finish in May 2021. This may be optimistic given the DNR's limited capacity to review and approve technical submittals within the timeframes assumed in the project scope.

elm creek

Watershed Management Commission

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Email: jHerbert@barr.com

Paulsen Farms **Corcoran, Project #2020-025**

Project Overview: This is an 88-acre parcel located south of CR 30 and east of Bechtold Road. Twenty (20) single family rural residential lots with 5.2 acres of new impervious areas are proposed on this site.

This project will trigger the Commission's Appendix C Rules and Standards as indicated below.

- X Rule D Stormwater Management
- X Rule E Erosion and Sediment Control
- Rule F Floodplain Alterations
- X Rule G Wetland Alteration
- Rule H Bridge and Culvert Crossings
- X Rule I Buffer Strips

Applicant: DS Management Group LLC, Attention Craig Scherber, 20160 75th Avenue N, Corcoran, MN 55340. Phone: 612-810-8400. Email: cescherber@yahoo.com.

Agent: Sathre-Bergquist, Attention Eric Johnson. 150 Broadway Avenue S., Wayzata, MN 55391. Phone: 952-476-6000. Email: ejohnson@sathre.com

Exhibits:

- 1) A complete ECWMC application received July 27, 2020.
 - a. ECWMC Request for Review and Approval.
 - b. Corcoran city authorization for review via email dated July 23, 2020
 - c. Project review fee, \$7,225 for 88.5 acres, residential site development project received May 1, 2020
 - d. Site plan design submittal via email on July 22, 2020.
- 2) Paulsen Farms Site Plans by Sathre-Bergquist, Inc. dated March 6, 2020 with last revision date of July 17, 2020.
 - a. Sheet 1 of 22, Title Sheet
 - b. Sheets 2 and 3 of 22, Outlot Plan and Open Space Area Exhibit.
 - c. Sheets 4 to 7 of 22, Street Plan
 - d. Sheets 8 to 11 of 22, Storm Sewer Plan.
 - e. Sheets 12 to 15 of 22, Grading Plan
 - f. Sheet 16 of 22, Erosion Control Plan.
 - g. Sheets 17 to 22 of 22, Details
- 3) Paulsen Farms Development Stormwater Plan by Advanced Engineering and Environmental Services dated July 16, 2020. Including narrative, existing, and proposed conditions maps, Web soil survey report, pre- and post-development HydroCAD model, P8 output model, and outlet control structure details.

- 4) Storm sewer Hydraflow Extension for Autodesk Civil 3D Plan for storm B, C and D designs.
- 5) Haugo GeoTechnical Services soil boring logs 1 to 6 with location exhibit.
- 6) MN WCA Notice of Wetland Application, boundary/type for Cory Scherber CR 30 Site dated July 23, 2019
- 7) MN WCA Notice of Wetland Delineation, boundary/type for Cory Scherber CR 30 Site dated September 19, 2019.

Findings

General

- 1) A complete application was received July 23, 2020. The initial decision period deadline per MN Statute 15.99 is September 21, 2020.
- 2) The existing land use is approximately 70 acres crop land and 19 acres of woods/wetlands and open space.
- 3) The proposed land use will consist of:
 - a. The north and westerly 45 acres will be platted into twenty 20 single family rural residential lots. Roads/infrastructure and home sites will disturb 9 acres and create 5.2 acres of new impervious areas.
 - b. The southerly 35 acres will be platted as outlots and remain developer owned for potential future platting. Future conditions are not part of this review
 - c. The remaining 10 acres will be HOA controlled.
- 4) This site drains to the east and north. It eventually reaches the North Fork of Rush Creek near CR 117 and Trail Haven Road approximately 1.5 miles from this site. Approximately 170 acres off-site from the south and west drain through this property.
- 5) Proposed drainage remains essentially the same.
- 6) There are no Elm Creek Watershed jurisdictional floodplains, or stream crossing within this site area.
- 7) There are fourteen (14) wetlands throughout this parcel. No wetland impacts are proposed.

Rule D - Stormwater Management

- 1) Stormwater will be managed by routing most of the impervious surfaces into four stormwater basins – one will be a wet detention pond, two will consist of wet detention ponds with filter benches and one will be a filter basin.
- 2) The City of Corcoran requires the landowners to operate and maintain the stormwater facilities in new developments. An operation and maintenance agreement must be created and approved by the City and Commission. Said agreement must be recorded on the property title with a copy of the recorded document provided to the ECWMC.
- 3) Soil borings confirm high-clay content soils unsuitable for infiltration. Biofiltration of the abstraction volume is acceptable in lieu of infiltration.
- 4) Based on pre- and post-development hydrology modeling, wetland 3 will have higher water elevations for the 2-, 10- and 100-year storm events after deveopemnt. These will be 0.21 feet, 0.38 feet and 0.62 feet higher respectively. No detertmental effects to exisiting or proposed structures are anticipated, but this wetland extends into the property south of this site. The change in post development elevations to the adjacent property could be problematic to its normal drainage characteristics. The ECWMC does not have

a regulatory standard for the change in elevation anticipated on this wetland. This item is for informational purposes only.

- 5) High water elevations on the site plans for Wetlands 4, 7 and 9 do not match the hydrology model in the stormwater management plans.

Low Floor Elevations

- 1) Plans **do not meet** the Commission's requirements for minimum low floor elevations.
- 2) Low floor elevations (LFE) are to be a minimum of two feet above the High-Water Level (HWL), defined as the critical event 100-year elevation, and one foot above the emergency overflow elevations of nearby waterbodies and stormwater ponds. These criteria are not met for the lots in Table 1.

Table 1 Low Floor Elevation Summary

Lot/Block	Proposed LFE (feet)	HWL of adjacent pond or wetland (feet)	LFE minus HWL (feet) 2-ft min.	Emergency overflow elevation (feet)	Minimum LFE (feet)	Adjacent pond/wetland
L5, B1	981.6	983.3*	-1.7	983.5 est.	985.3	Wetland 9
L6, B2	999.6	1006.8	-7.2	1005.8	1008.8	Wetland 3
L1, B3	997.6	999.7*	-2.1	1000.0 est.	1001.0	Wetland 7
L2, B3	996.1	994.4	1.7	994.0	996.4	Wetland 8
L3, B3	994.6	994.4	0.2	994.0	996.4	Wetland 8
L5, B3	993.6	994.4	-0.8	994.0	996.4	Wetland 8
L6, B3	989.6	994.4	-4.8	994.0	996.4	Wetland 8

* High water elevations on the site plans for Wetlands 7 and 9 do not match the hydrology model in the stormwater management plans.

Water Quality Controls

- 1) Plans **meet** the Commission's requirements for water quality controls.
- 2) Pre- vs Post-development Total Suspended Solids (TSS) and Total Phosphorous (TP) loads were modeled using P8. Results are shown in Table 2.

Table 2 Stormwater Summary

Condition (39 acres)	TP load (lbs/year)	TSS load (lbs/year)	Filtration (cubic feet) ⁽¹⁾	Annual volume (acre-feet) ⁽²⁾
Pre-development (baseline)	1232	3.8	N/A	27.6
Post-development without BMPs	5210	13.3	20,909	32.6
Post-development with BMPs	304	3.3	29,402	32.6
Net Change	-928	-0.5	+8,493	+5.0

(1) 5.2 acres new impervious

(2) Elm Creek Technical staff estimate using MIDS model

Rate Controls

- 1) Plans **do not meet** the Commission's requirements for rate control.
- 2) Two (2) year flow rates at the existing ditch on the east property line will exceed the Commission's requirements. All other flow rates meet the Commission's requirements.
- 3) Table 3 summarizes the total peak flows leaving the site before and after development.

Table 3 Rate Control Summary

Discharge Offsite Drainage Areas	Area (Acres) (Total = 314)	Condition	2-year (cfs)	10-year (cfs)	100-year (cfs)
Northeast	22.4	Existing	11.4	14.4	17.8
	22.6	Proposed	11.3	14.5	17.7
	+0.2	Change	-0.1	0.1	-0.1
Northwest	23.5	Existing	15.1	32.4	77.1
	23.3	Proposed	11.9	25.6	60.5
	-0.2	Change	-3.2	-6.8	-16.6
East @ existing culvert #3	199.1	Existing	59.8	135.3	319.9
	202.1	Proposed	62.4	122.6	209.3
	+3.0	Change	2.6	-12.7	-110.6
East @ Fox Valley Drive	268.4	Existing	78.4	191.4	461.9
	268.4	Proposed	78	174.7	352.5
	0	Change	-0.4	-16.7	-109.4

Abstraction controls

- 1) Plans **meet** the Commission's requirements for abstraction.
- 2) New impervious areas will be 5.2 acres requiring 20,909 cubic feet (0.48-acre feet) of abstraction.
- 3) Soils are unsuitable for infiltration. Filtration for abstraction is allowed per Rule D.
- 4) The filtration basin and two wet detention ponds with filter benches will have the capacity for 29,402 cubic feet (0.67-acre feet) of drawdown volume.
 - a. The drawdown time for these filter areas will range from 16 to 26 hours.
- 5) Pre-treatment will occur on the wet detention ponds by routing the stormwater into the wet detention pond areas prior to the water entering the filter media.
- 6) Pre-treatment of stormwater in the filter basin will occur in a forebay area at the pipe inlet to the basin. The forebay is sized per MPCA guidelines at 10% of the volume area on the filter bench.

- 7) Filter basin materials for the soil media are identified as sand on the filter details and iron enhanced sand on the outlet control structure details. Clarify and make consistent.

Rule E - Erosion and Sediment Control

- 1) Plans **meet** the Commission's requirements.
- 2) Final Stormwater Pollution Prevention Plans must be obtained before construction can begin.

Rules G – Wetland Alteration

- 1) Plans **meet** the Commission's requirements for Wetland Alteration.
- 2) No wetlands are proposed to be impacted on this site.
 - a. The City of Corcoran is the LGU in charge of administering the wetland requirements on this project.

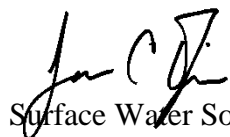
Rules I – Buffer Strips

- 1) Plans **do not meet** the Commission's requirements for buffer strips.
- 2) Wetland buffer and watercourse widths must be an average of 25 feet wide with a minimum 10-foot width allowed.
 - a. All wetland buffers will meet the Commissions width requirements. Most wetland buffers are at 50 feet widths.
 - b. The watercourse along the south property lines of lots 1 and 2 of Block 2 and south of pond 3 must have a buffer provided per the Commission's requirements.
- 3) Buffer monumentation must be provided at each parcel line and have a maximum spacing of 200 feet. Additional monuments must be placed as necessary to accurately define the edge of the buffer strips.
 - a. Monumentation is provided for the platted lots.
 - b. Buffer Monuments are not provided in Outlot B. Provide buffer monuments.
 - c. Buffer monuments are required along the watercourse buffer (see item 2b above).

Recommendation to the Elm Creek Commissioners

None currently. Low floor elevations, buffer strips, monumentation and rate controls do not meet Commission requirements.

On Behalf of Barr Engineering
Advisor to the Commission



Surface Water Solutions LLC

August 11, 2020
Date

Attachments

- | | |
|----------|---------------------------|
| Figure 1 | Location Map |
| Figure 2 | 2018 Aerial Photograph |
| Figure 3 | Overall Plan |
| Figure 4 | Grading and Drainage Plan |

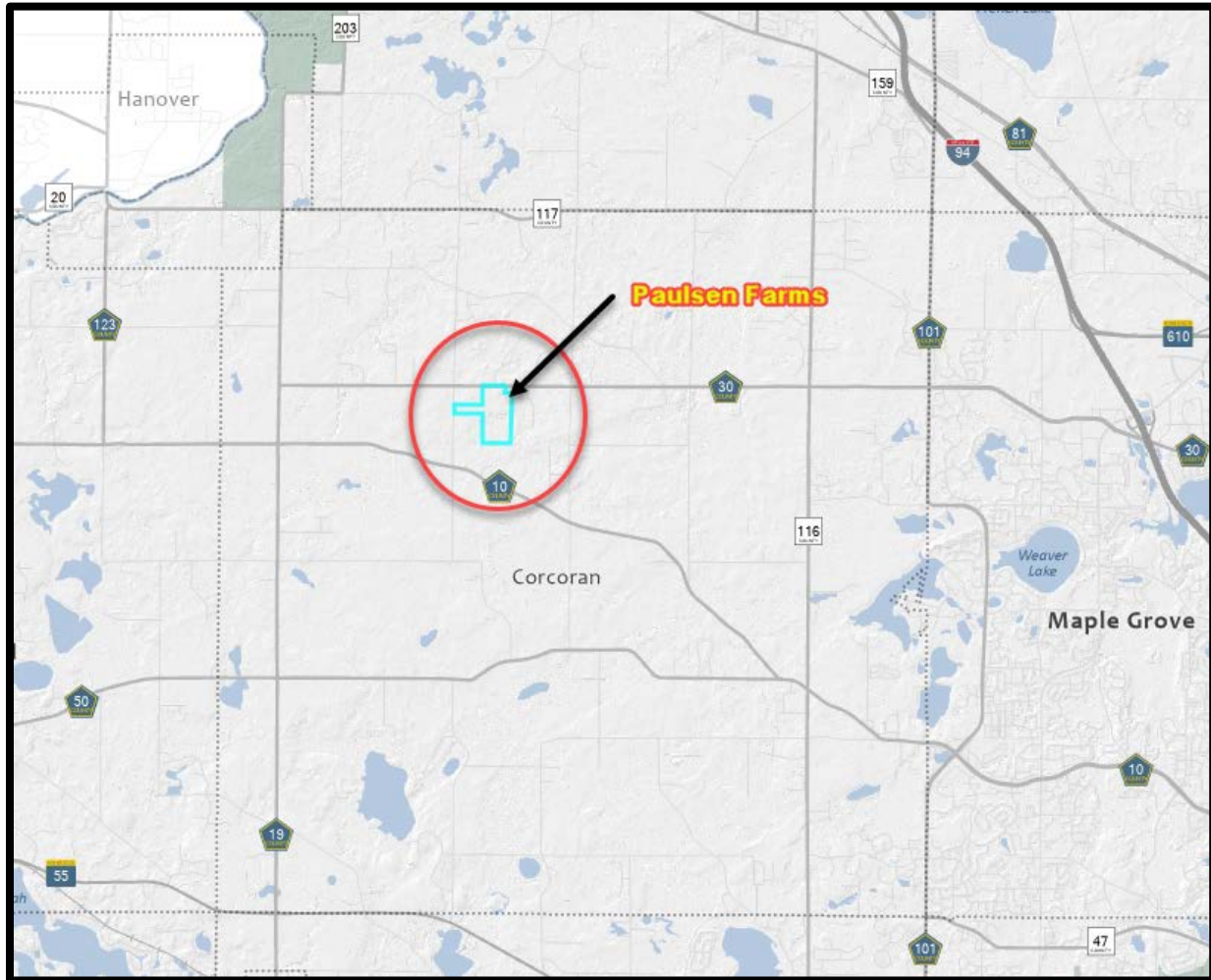


Figure 1 **Location Map**

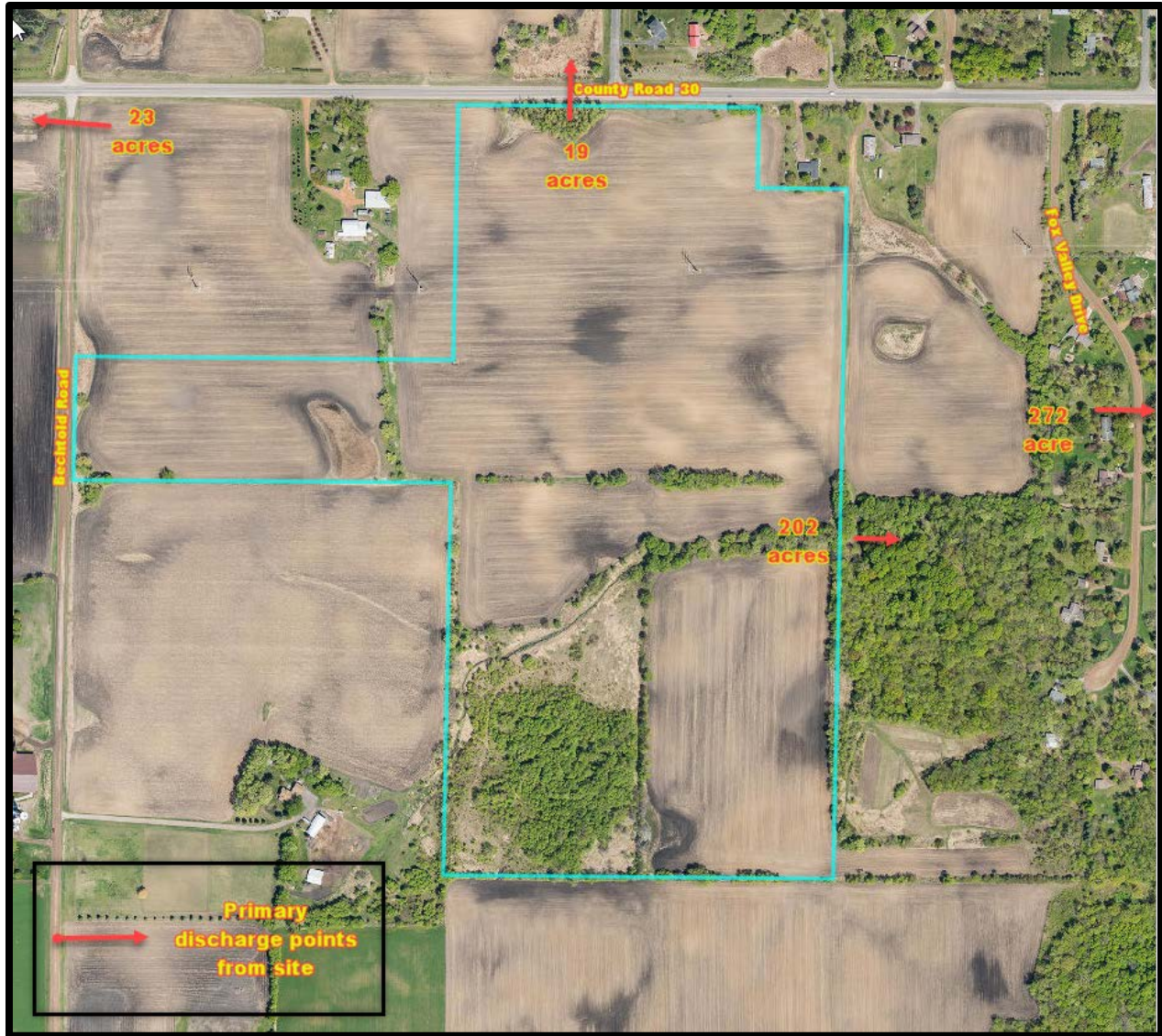


Figure 2 2018 Aerial Photograph

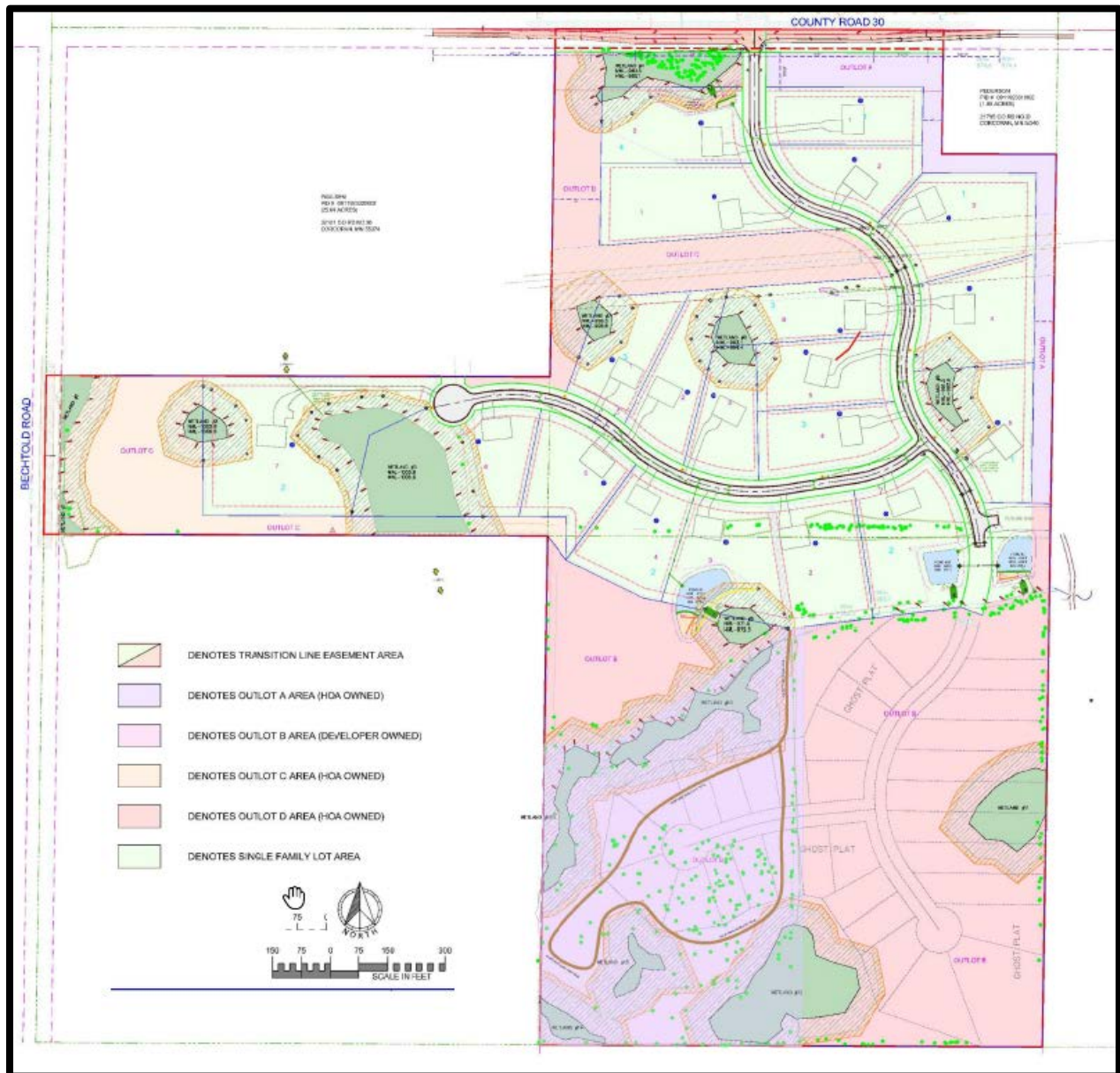


Figure 3 Overall Plan

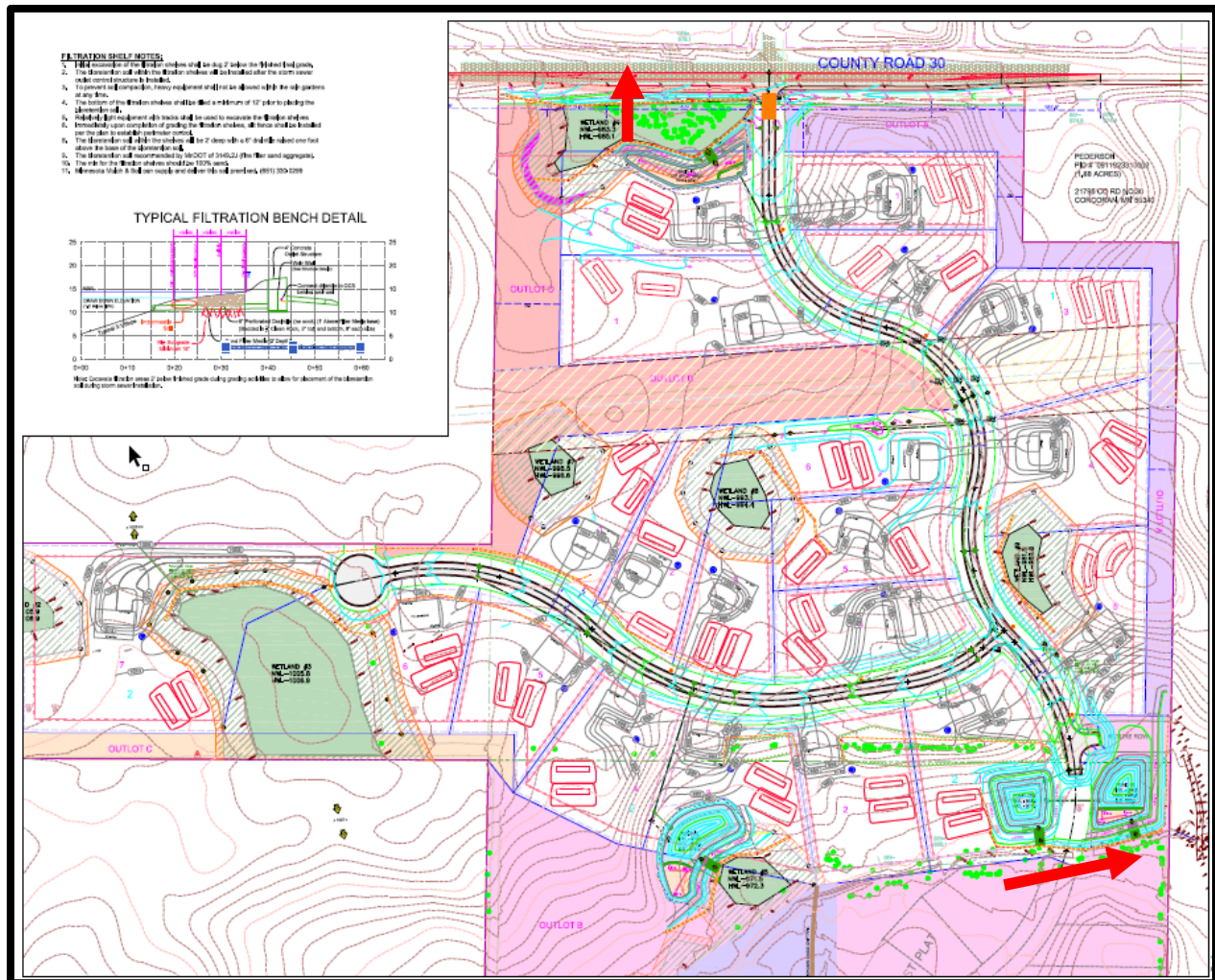


Figure 4 Grading and Drainage Plan

elm creek

Watershed Management Commission

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2020 Rogers High School Addition and Renovations **Rogers, Project #2020-026**

Project Overview: This project is located on the Rogers High School property east of Highway 101 on the north side of CR144. It will disturb 3.35 acres and increase impervious coverage by 0.82 acres. A 35,000 square foot building addition is proposed for the north side of the existing school. The applicant proposes to use the existing regional infiltration pond constructed in 2002 to accommodate these improvements.

This project will trigger the Commission's Appendix C Rules and Standards as indicated below.

- X Rule D Stormwater Management
- X Rule E Erosion and Sediment Control
- Rule F Floodplain Alterations
- Rule G Wetland Alteration
- Rule H Bridge and Culvert Crossings
- Rule I Buffer Strips

Applicant: ISD #728, Attn. Thomas Baranick, 11500 93rd Ave. N., Elm River, MN 55330.
Phone: 763-241-3405. Email: Thomas.baranick@isd728.org.

Agent/Engineer: BKBM Engineers, Attn. Kevin Bohl, 6120 Earle Brown Drive, Suite 700, Minneapolis, MN 55305. Phone: 763-843-0427. Email: kbohl@bkbm.com

Exhibits:

- 1) A complete ECWMC application received July 29, 2020.
 - a. ECWMC Request for Review and Approval received July 29, 2020.
 - b. Rogers city authorization for review dated July 29, 2020
 - c. Project review fee, \$887.50 for 3.35 acres for redevelopment on an institutional/government project. received July 29, 2020
 - d. Site plan design submittal via flash drive on July 29, 2020.
- 2) Hydrology Calculations for 2020 Rogers High School Addition and Renovation, by BKBM dated July 17, 2020.
- 3) Civil Site Plan for 2020 Rogers High School Addition and Renovations dated July 17, 2020.
 - a. Sheet C1.000, Selective Site Demolition and Erosion Control Plan
 - b. Sheet C2.000, Grading, Drainage and Erosion Control Plan,
 - c. Sheet C3.000, Utility Plan,
 - d. Sheets C5.000 and C5.001, Details

- e. Sheet C6.000 Storm Water Pollution Prevention Plan.
 - f. Sheet L1.001, Landscape Plan,
 - g. Sheet L1.002 and L1.003, Landscape Details and Notes
- 4) Project file for 2019-003 Roger High School Tennis Courts, including correspondence from BKBM to ECWMC dated March 1, 2019, regarding stormwater management plan assumptions, design, and conclusions for project 2019-003 and regional pond model updates for Atlas 14 storm events vs TP40.

Findings.

General

- 1) A complete application was received on July 29, 2020. The initial 60-day decision period expires on September 27, 2020.
- 2) The existing land use is 2.79 acres of building/landscaping/parking and driveway areas with 0.85 acres impervious areas.
- 3) The proposed land use will consist of a new 35,000 square foot addition to the school building along with modifications to the landscaping/parking and driveway areas necessary to accommodate the addition. This increases the impervious areas by 0.82 acres to 1.67 acres.
- 4) There are no Elm Creek Watershed jurisdictional floodplains, or stream crossing within this site area.
- 5) No wetland impacts are proposed.

Rule D - Stormwater Management

- 1) The High School campus drains to the north into a regional pond in the NE corner of the school property. This regional pond is an infiltration basin that is dry most of the time. If water flows out it eventually reaches the Crow River approximately $\frac{3}{4}$ of a mile north and east of the site.
- 2) Existing stormwater management: The Rogers High School and its stormwater plans were reviewed and approved by the ECWMC when it was built in 2000-2001. At that time, the large regional infiltration pond was constructed to take care of the stormwater management from this site.
 - a. Total watershed area to the regional pond = 552-acre watershed,
 - b. Site area draining directly into regional pond = 58 acres
 - c. Site area draining indirectly into the regional pond = 21 acres
 - d. Soil infiltration rate in the pond based on infiltration testing = 8.3 inches per hour
 - e. Regional pond storage capacity below the pipe outflow elevation = 6.2-acre feet.
- 3) Proposed stormwater management: Rogers High School proposes to use the existing regional pond for rate and volume controls.
 - a. Existing impervious areas from the high school draining to the regional pond = 19.3 acres (25% impervious)
 - b. After the project is complete, impervious areas will be 20.1 acres (26% impervious)

Rate Controls

- 1) Plans **meet** the Commission's requirements for rate control.
- 2) Table 1 summarizes the total peak flows leaving the site before the High School pond was constructed and after development, including the 2020 project addition.

Table 1 Rate Control Summary

Discharge Offsite Drainage Areas	Area (Acres) (Total = 552)	Condition	2-year (cfs)	10-year (cfs)	100-year (cfs)
Northeast	552	Existing	17.5	54.3	150.3
Regional Pond	552	Proposed	7.0	37.3	112.9
	0	Change	-10.5	-17.0	-37.4

Abstraction controls

- 1) Plans **meet** the Commission's requirements for abstraction.
- 2) New impervious areas will be 0.82 acres, requiring 0.075-acre feet (3,275 cubic feet) of abstraction.
- 3) Abstraction will take place from excess infiltration available in the regional stormwater pond in the NE corner of the high school property.
 - a. Abstraction volume available 6.2-acre feet. (269,200 cubic feet)
 - b. Abstraction treatment volume required for school (including new impervious areas) = 1.84-acre feet (80,260 cubic feet)
 - c. Excess infiltration available for abstraction = 4.36-acre feet (189,922 cubic feet)

Water Quality Controls

- 1) Plans **do not meet** the Commission's requirements for water quality controls.
- 2) The sub watershed areas for this project have two distinct drainage patterns that have consequences on the water quality requirements for this project.
 - a. Area I will drain north directly into the regional pond. This drainage area will meet the Commission's water quality requirements. Infiltration in the regional pond meet of the Commission's requirements for phosphorus and suspended solid controls per Rule D-3-e-i) which states, *Full infiltration of one point one (1.1) inches of runoff from all impervious surface will satisfy* no-net-increase criteria for post development water quality.
 - b. Area II drains west directly into an existing wetland. This area does not meet the Commission's water quality requirements. No best management practices are proposed for the increase in water directed toward the existing wetland. Water quality controls for phosphorus and suspended solids do not meet the Commission's requirements currently for this sub-watershed area.
- 3) Pre- vs Post-development Total Suspended Solids (TSS) and Total Phosphorous (TP) loads were modeled using MPCA MIDS. Results are shown in Table 2.

Table 2 Stormwater Summary

Condition (2.79)	TP load (lbs/year)	TSS load (lbs/year)	Infiltration (acre feet) ⁽¹⁾	Annual volume (acre-feet) ⁽²⁾
Pre-development (baseline)	0.75	136	6.20	0
Post-development without BMPs	1.33	242	1.84	0
Post-development with BMPs	1.33	242	6.20	0
Net Change	+0.58	+106	+4.36	0

(1) 0.82 acres new impervious

(2) Based on MIDS analysis

Rule E - Erosion and Sediment Controls

- 1) Erosion and sediment control meet the Commission's requirements per Rule E.

Recommendation: None currently.

On Behalf of Barr Engineering
Advisor to the Commission



Surface Water Solutions LLC

August 24, 2020
Date

Attachments

- Figure 1 Location Map
Figure 2 2018 Aerial Photograph
Figure 3 Grading and Drainage Plan

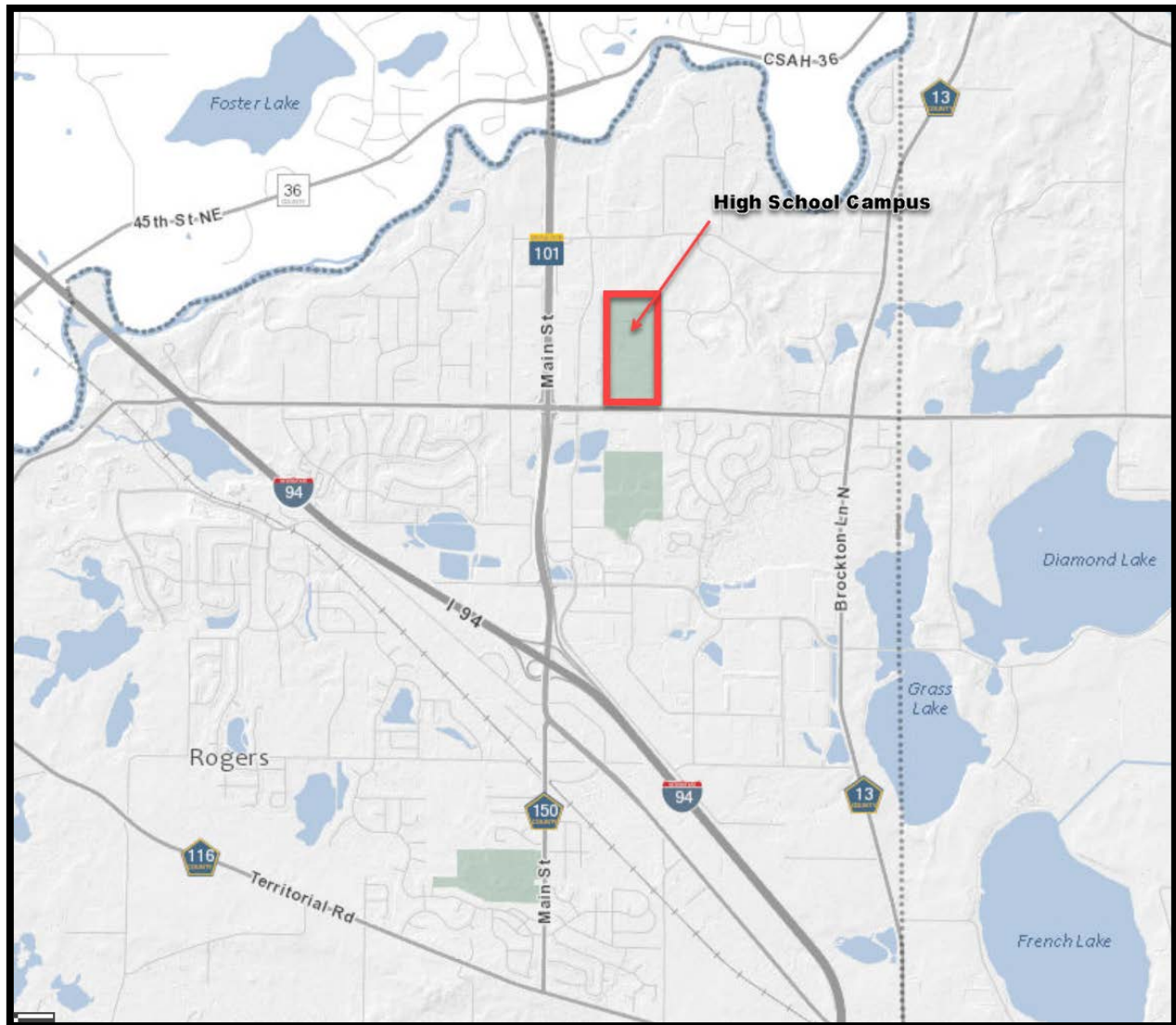


Figure 1 Location Map

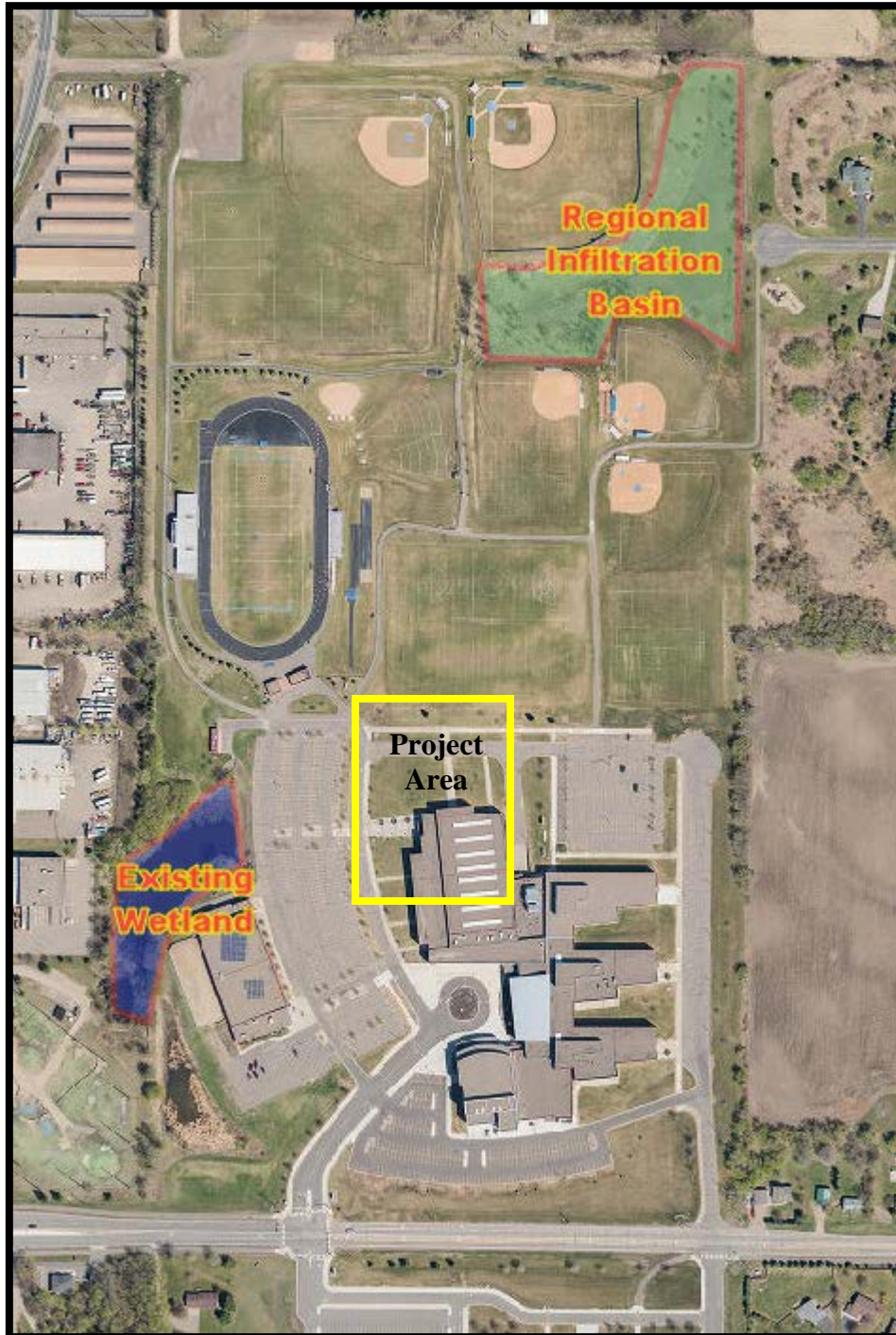


Figure 2 **2018 Aerial Photo**

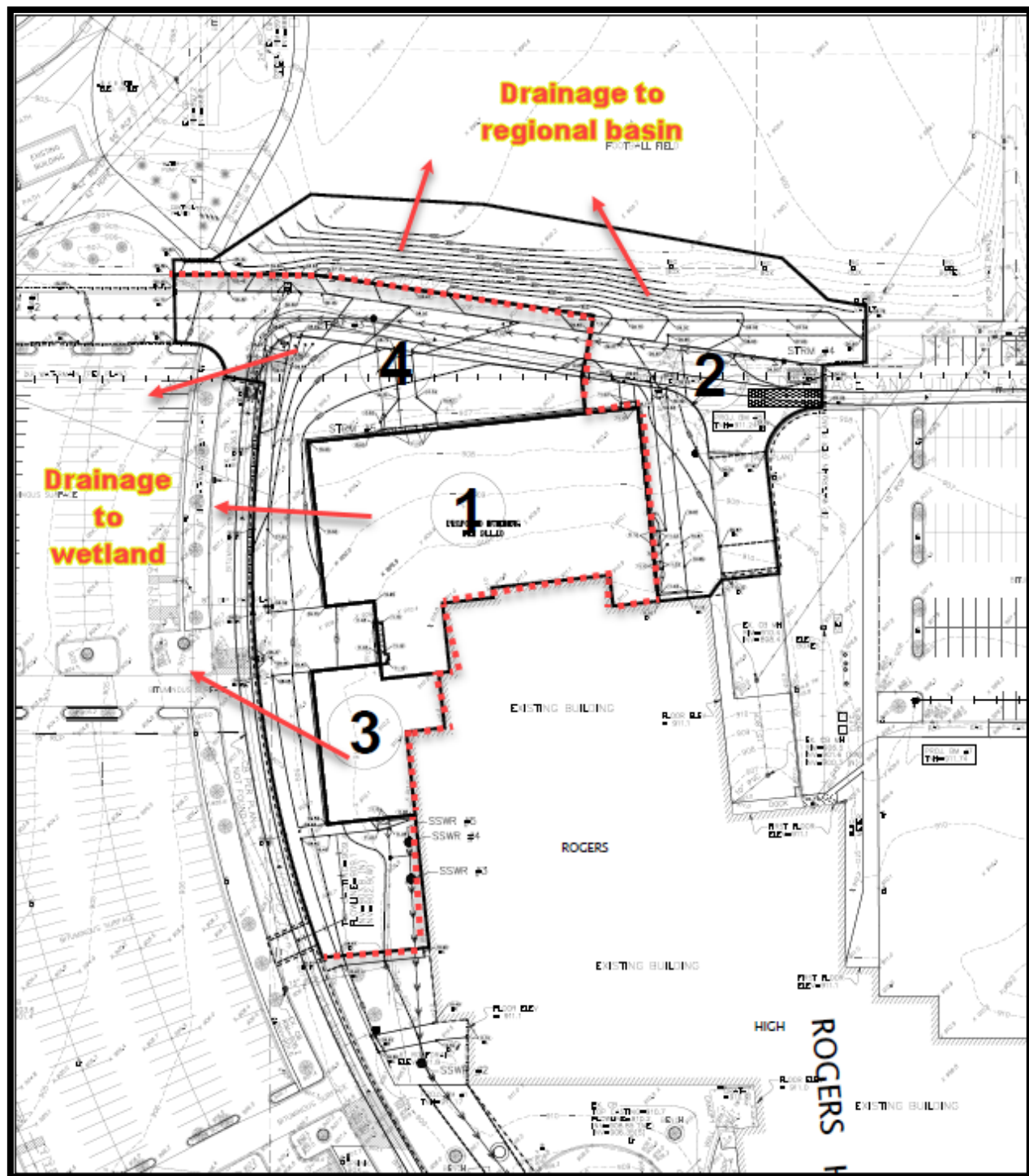


Figure 3 Grading and Drainage Plan

elm creek

Watershed Management Commission

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3235 Fernbrook Lane
Plymouth, MN 55447
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Kariniemi Addition **Corcoran, Project #2020-027** *(August 26, 2020 revisions)*

Project Overview: This is a 12.7-acre parcel located on Lot 3, Block 1 of the Rolling Hills Acres subdivision (ECWMC Project 2019-030) about a mile north of Hwy. 55 on the east side of Rolling Hills Road. The applicant proposes to create 3 lots with a shared driveway for access along the northerly portion of the property. Project work will disturb 2.6 acres and create 0.83 acres of new impervious areas.

This project will trigger the Commission's Appendix C Rules and Standards as indicated below.

- X Rule D Stormwater Management
- X Rule E Erosion and Sediment Control
- X Rule F Floodplain Alterations
- X Rule G Wetland Alteration
- Rule H Bridge and Culvert Crossings
- X Rule I Buffer Strips

Applicant: Mr. Nate Kariniemi, 19927 Larkin Road, Corcoran, MN 55340. Phone: 763-300-6618. Email: natekariniemi@hotmail.com.

Agent: Otto and Associates, Attention Paul Otto, 9 West Division St., Buffalo, MN 55313. Phone: 763-452-7290. Email: paul@ottoassociates.com

Exhibits:

- 1) A complete ECWMC application received August 6, 2020.
 - a. ECWMC Request for Review and Approval received June 5, 2020.
 - b. City of Corcoran authorization for review dated August 6, 2020.
 - c. Project review fee, \$1,350 for 12.7 acres, residential site development project received June 5, 2020
 - d. Site plan design submittal via email on August 6, 2020.
- 2) Kariniemi Addition Site Plans by Otto Associates. dated July 21, 2020.
 - a. Sheet 1 of 6, Cover Sheet
 - b. Sheet 2 of 6, Private Drive, revised August 26, 2020.
 - c. Sheet 3 of 6, Grading Plan, revised August 26, 2020.
 - d. Sheets 4 and 5 of 6, Stormwater Pollution Prevention Plan and Narrative, revised August 26, 2020.
 - e. Sheet 6 of 6, Details

- 3) Kariniemi Addition Stormwater Report, but Otto Associates dated August 26, 2020.
- 4) Skies Limit LLC Wetland Conservation Act Notices
 - a. Notice of Application and Decision, wetland boundary/type, dated October 15, 2019, and August 26, 2019, respectively.
 - b. Notice of Application and Decision, wetland replacement plan, dated October 15, 2019 and November 20, 2019, respectively.
- 5) Kariniemi Addition Wetland Conservation Act Notices.
 - a. WCA Application Review and TEP Findings from March 11, 2020 TEP meeting by Wenck Associates (Corcoran LGU consultant)
 - b. WCA Notice of Decision, Kariniemi Addition replacement plan dated March 27, 2020.

Findings

General

- 1) A complete application was received August 6, 2020. The initial decision period deadline per MN Statute 15.99 is October 5, 2020.
- 2) The existing land use is approximately 1.0 acre of wetlands/woods/grass and 13.7 acres of cropland.
- 3) The proposed land use will consist of three residential lots with a shared driveway access road. Individual home sites will be graded at the time they are built.
- 4) The water from this site flows approximately 4,000 feet to the east and north before entering Rush Creek north of Homestead Trail.
- 5) There is one FEMA/Elm Creek watershed jurisdictional floodplain along the east side of lot 3 in this development.
- 6) There are two (2) wetlands on this parcel.
- 7) One of the two wetlands will have some minor impacts that occur from construction on the shared driveway access.

Rule D - Stormwater Management

- 1) Existing drainage patterns are generally to the south on this site. A drainageway along the southern boundary intercepts this water and runs it east into the wetland/floodplain complex east of this parcel.
- 2) Proposed drainage patterns will generally remain the same except the shared driveway will divert approximately 9 acres of offsite water to the east, instead of south through the site.
- 3) Flow rate controls will be managed by constructing grass swales, and one dry pond.
- 4) Volume and water quality will be managed by a grass swale (impervious disconnection), the change in land use from cropland to predominantly grass, and additional wetland buffer areas for abstraction credits.
- 5) The City of Corcoran requires landowners to operate and maintain the stormwater facilities in new developments. An operation and maintenance agreement on the stormwater basin must be created and approved by the City and Commission. Said agreement must be recorded on the property title with a copy of the recorded document provided to the ECWMC.

Water Quality Controls

- 1) Plans **meet** the Commission's requirements for water quality controls.
- 2) Pre- vs Post-development total suspended solids (TSS) and total phosphorous (TP) loads were modeled using the MIDS calculator. Cropland TP and TSS concentrations of 0.5 mg/l and 100 mg/l were used for pre-development conditions. Post-development conditions used MIDS default concentration of 0.3 for phosphorus and 54.5 mg/l for suspended solids. Results are shown in Table 1.

Abstraction controls

- 1) Plans **meet** the Commission's requirements for abstraction.
- 2) Soils are unsuitable for infiltration. High clay content in soil tests and high-water tables are apparent in the proposed basin area.
- 3) New impervious areas will be 0.83 acres.
- 4) Credits for abstraction will be obtained through impervious surface disconnect (Rule D.3.ix.4) and excess wetland buffer (Rule D.3.ix.3).
 - a. Impervious disconnect will reduce the shared driveway impervious surface areas by 0.34 acres. This area of the shared road will be routed into a ditch/grassed swale that will travel more than 300 feet before entering the wetland/floodplain complex east of this site.
 - b. Excess wetland buffer area of 31,411 square feet is proposed. Abstraction credits for the excess buffer is 0.75 inches for the area which totals 1,963 cubic feet.
 - c. Final accounting for credits for impervious areas and excess wetland buffer are as follows:
 - i. Reduction in impervious area for disconnected area = 0.34 acres
 - ii. Reduction through wetland buffer credits = 31,411 square feet of excess wetland buffers x 0.75-inch credit = 1,963 cubic feet.
 - iii. Net abstraction = 6 cubic feet more than required.

Table 1 Stormwater Summary

Condition (12.7 ACRES)	TP load (lbs/year) ⁽²⁾	TSS load (lbs/year) ⁽²⁾	Abstraction (cubic feet) ⁽¹⁾⁽³⁾	Annual volume (acre-feet) ⁽²⁾
Pre-development (baseline)	7.84	1,567		5.76
Post-development without BMPs			3,315	
Post-development with BMPs	6.34	1,152	3,321	7.77
Net Change	-1.5	-415	+6	+2.01

(1) 0.83 acres new impervious

(2) Elm Creek Technical staff estimate using MIDS model

(3) Abstraction obtained through impervious disconnection and additional wetland buffer credits

Rate Controls

- 1) Plans **meet** the Commission's requirements for rate control.

- 2) A dry detention basin and the swale established along the north side of the shared driveway will be the methods utilized to slow peak flows from this site after development.
- 3) Table 2 summarizes the total peak flows leaving the site before and after development.

Table 2 Rate Control Summary

Discharge Offsite Drainage Areas	Area (Acres) (Total = 21.7)	Condition	2-year (cfs)	10-year (cfs)	100-year (cfs)
East	21.7	Existing	26.65	52.04	111.39
	21.7	Proposed	26.40	46.44	91.00
	0	Change	-0.15	-5.60	-20.39

Rule E - Erosion and Sediment Control

- 1) Plans **meet** the Commission's requirements.
- 2) We recommend the following inspections to the City of Corcoran prior to escrow release:
 - a. The drainage swale north of the shared driveway should be inspected for stable conditions and good sod cover between the end of the driveway on lot 3 to the east property line. Initial flow analysis determines water velocities at 3.2 feet per second in this area. If grass is well established, this will be a stable channel. If a good sod cover is not established, this could be a potential gully erosion site.
 - b. Per the SWPPP, all exposed areas including previous cropland, is established with a density of 70% or greater uniform perennial vegetation.

Rule F – Floodplain Alteration

- 1) Plans **meet** the Commission's requirements.
- 2) There is a FEMA Zone A floodplain in far east side on Lot 3. This floodplain area corresponds to the Elm Creek Watersheds upland flood storage area 11 in the stormwater management plan.
 - a. FEMA does not have a 1% storm elevation for their flood zone A on this parcel.
 - b. The 1982 ECWMC flood study determined the 100-year flood elevation at 966.2 (1928 datum) for upland flood storage area 11.
 - c. Based on the previously approved plat for the Rolling Hills Acres and this application, an elevation of 972.0 is used as the determining elevation for the drainage and utility easement and the 100-year elevation. This will be adequate.
 - d. Preliminary home sites and elevations will exceed a 2-foot separation between the high-water elevation in the floodplain area and the low floor elevation on the homes.
- 3) The preliminary plat provides for drainage and utility easement over all floodplain elevations determined for this site.

Rules G – Wetland Alteration

- 1) Plans **meet** the Commission's requirements for Wetland Alteration.

- 2) The City of Corcoran is the LGU in charge of administering the wetland requirements on this project.
- 3) The Rolling Hill Acres project (2019-030) was approved in 2019 to impact 1,993 square feet of wetland for driveway access to Lot 3 Block 1 from Rolling Hills Road.
- 4) The Kariniemi Addition will impact an additional 537 square feet of this same wetland area. The increased impact is needed to accommodate the city requirements on a shared driveway access width verses the width required for a private driveway.
- 5) Impacts have been approved per ECWMC, MN WCA and the City of Corcoran wetland rules and ordinances.

Rules I – Buffer Strips

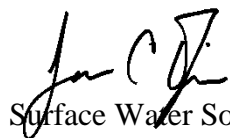
- 1) Plans **meet** the Commission's requirements for buffer strips.
- 2) Wetland buffer and watercourse widths must be an average of 25 feet wide with a minimum 10-foot width allowed.
 - a. All wetland buffer strips, including excess buffer areas for abstraction credits, meet the Commissions width and monumentation requirements.
 - b. Wetland buffer vegetation establishment has been revised to comply with the Commission requirements per Rule I Section 8.

Recommendation to the Elm Creek Commissioners

Approval contingent upon.

- 1) An operation and maintenance agreement must be created and approved by the City and Commission. Said agreement must be recorded on the property title with a copy of the recorded document provided to the ECWMC.

On Behalf of Barr Engineering
Advisor to the Commission



Surface Water Solutions LLC

August 27, 2020
Date

Attachments

- | | |
|----------|---------------------------|
| Figure 1 | Location Map |
| Figure 2 | 2020 Aerial Photograph |
| Figure 3 | Grading and Drainage Plan |

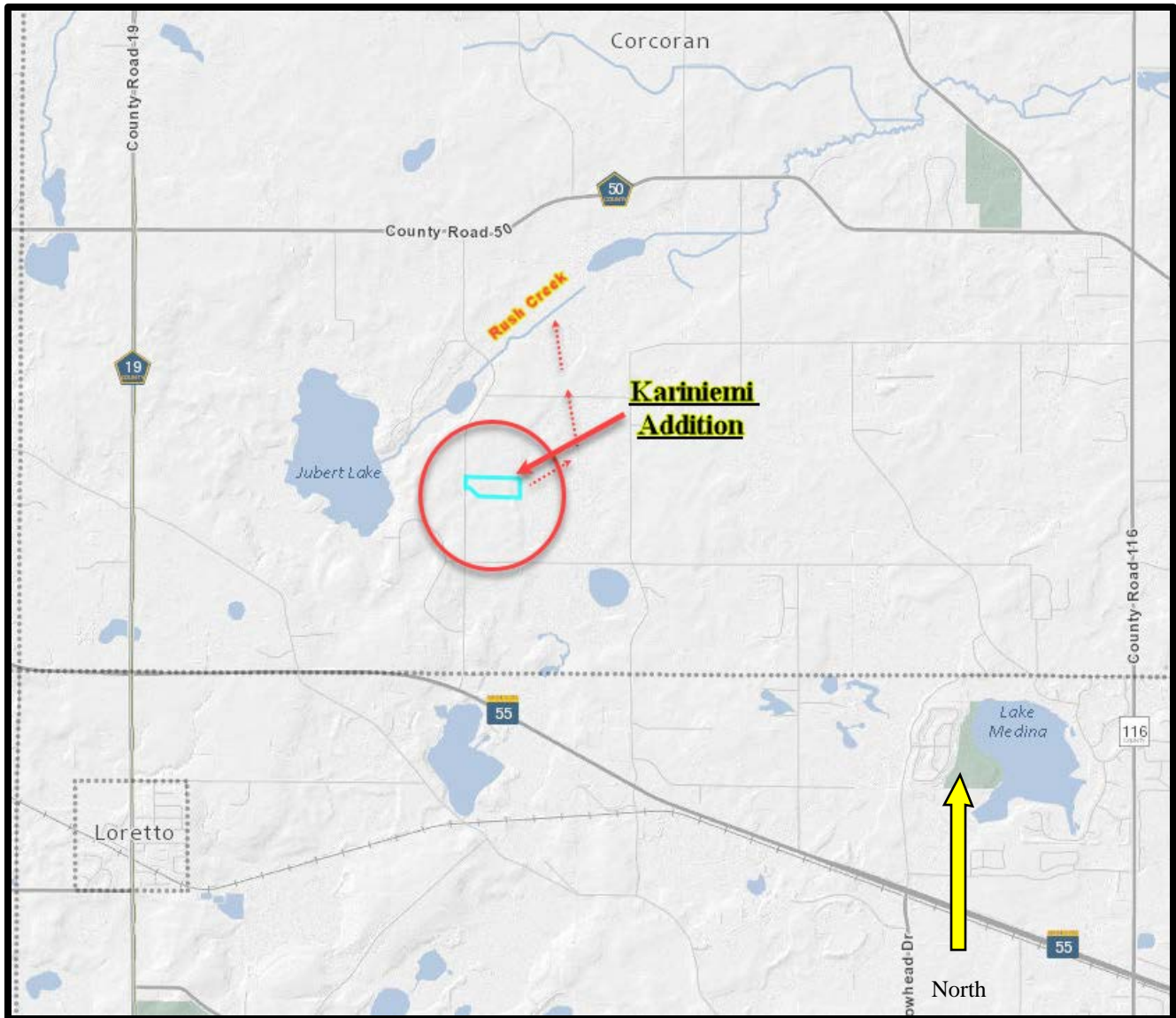


Figure 1 **Location Map**



Figure 2 2020 Aerial Photograph

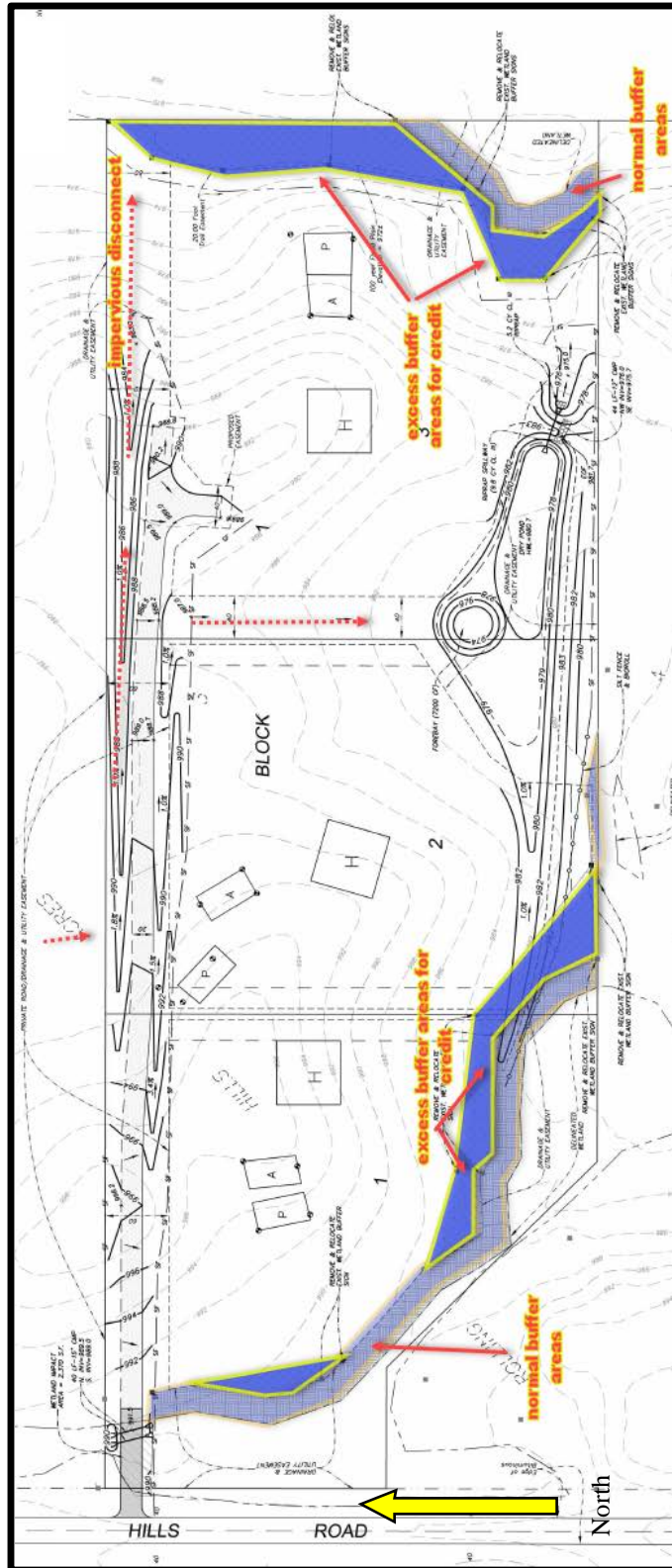


Figure 3 Grading & Drainage Plan

elm creek

Watershed Management Commission

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Email: jherbert@barr.com

Perl Gardens **Plymouth, Project #2020-028**

Project Overview: This is two parcels, 9.56 acres in size, located in the northwest corner of County Road 101 and Medina Road in Plymouth. Based on the Elm Creek Watershed jurisdictional boundaries, the Elm Creek Watershed jurisdiction bisects this project. The northerly 7.06-acre parcel is within the Elm Creek watershed and the southerly 2.46-acre parcel is within the Bassett Creek Watershed. Forty-three (43) single family twin homes creating 4.56 acres of new impervious areas are proposed on this site.

This project will trigger the Commission's Appendix C Rules and Standards as indicated below.

- X Rule D Stormwater Management
- X Rule E Erosion and Sediment Control
- Rule F Floodplain Alterations
- Rule G Wetland Alteration
- Rule H Bridge and Culvert Crossings
- Rule I Buffer Strips

Applicant: Rachel Development, Attention David Stradtman, 4180 Napier Court NE, St. Michael, MN 55376. Phone: 763.424.1525. Email: dstradtman@racheldevelopment.com.

Agent: Carlson McCain, Inc, Attention Joseph Radach, 15650 36th Avenue N., Suite 110, Plymouth, MN 55446. Phone: 763.489.7912. Email: jradach@carlsonmccain.com

Exhibits:

- 1) A complete ECWMC application received August 17, 2020.
 - a. ECWMC Request for Review and Approval dated July 14, 2020.
 - b. City of Plymouth authorization for review dated August 7, 2020
 - c. Project review fee, \$1,050 for 9.52 acres residential site development project, dated July 11, 2020
 - d. Site plan design submittal via flash drive on August 17, 2020.
- 2) Perl Gardens Grading, Drainage and Erosion Control Plans by Carlson McCain, Inc. dated July 14, 2020 with last revision date of August 12, 2020.
 - a. Sheet 1 of 6, Cover Sheet
 - b. Sheet 2 of 6, Grading, Drainage and Erosion Control Plan.
 - c. Sheets 3 and 4 of 6, Stormwater Pollution Prevention Plan
 - d. Sheet 5 and 6 of 6, Details and Retaining Wall Section
 - e. Sheets L1 and L2, Preliminary Landscape Plans
 - f. Sheets TP1 and TP2, Tree Preservation Plan.
- 3) Pearl Gardens Sanitary Sewer, Water Main, Storm Sewer and Street Construction Plans by Carlson McCain Inc. dated July 14, 2020 with last revision date of August 12, 2020.

- a. Sheet 1 of 14, Cover Sheet
 - b. Sheet 2 of 14, Sanitary Sewer Index
 - c. Sheet 3 of 14, Storm Sewer Index
 - d. Sheets 4 and 5 of 14 Sanitary Sewer Plans.
 - e. Sheets 6 and 7 of 14, Storm Serer Plans,
 - f. Sheet 8 of 14, Drain Tile Exhibit
 - g. Sheets 9 and 10 of 14 Street Construction
 - h. Sheet 11 to 14 of 14, Details
 - i. Sheets T1 to T9, Turn Lane Plans.
- 4) Perl Gardens Stormwater Management Plan by Carlson McCain Inc. dated April 1, 2020 with last revision date of August 12, 2020. Including Existing and Proposed conditions, MIDS model and storm sewer drainage maps, HydroCAD Existing and Proposed m, storm sewer calculations, MIDS model and BioClean SciClone Report, Existing Pond Record Plans (Orchards of Plymouth) and Braun Intertec soils information.

Findings

General

- 1) A complete application was received August 17, 2020. The initial decision period deadline per MN Statute 15.99 is October 16, 2020.
- 2) The existing land use appears to be a landscaping operation with extensive disturbance throughout the properties.
- 3) The proposed land use will consist of 43 townhomes and their necessary infrastructure.
- 4) An additional 4.56 acres of new impervious areas will be created.
- 5) The legal and physical watershed boundaries are somewhat conflicting for this area.
 - a. On the Hennepin County property maps and Elm Creek Watershed maps, the north 7.06-acre parcel is shown in the Elm Creek Watershed and the south 2.46 acres in the Bassett Creek Watershed. These boundaries appear to be the legal boundary of the watersheds.
 - b. On the City of Plymouth and Bassett Creek Watershed maps, both parcels are shown in the Elm Creek Watershed boundary. These boundaries appear to be the physical (hydrologic) boundaries of the watersheds.
- 6) Because this site is predominately in the ECWMC jurisdiction, and because approximately 95% of the site is proposed to drain into the Elm Creek watershed basin, the Bassett Creek WMC agreed to waive their review on the project and requested the review be completed by the ECWMC for compliance to that watershed's rules.
- 7) This property drains to the west and northwest approximately one mile before entering Elm Creek near the Hwy. 55 railroad viaduct.
- 8) Water from the proposed development will run northwest into an existing pond/wetland area in the Orchards of Plymouth development before flowing towards Elm Creek.
- 9) There are no Elm Creek Watershed jurisdictional floodplains, or steam crossing within this site area.

- 10) There are no wetlands on this parcel or adjacent properties that affect the Commission's wetland alterations or buffer strip rules.

Rule D - Stormwater Management

- 1) Stormwater will be managed by a sand filter basin along CR 101. This basin will outlet to the northwest into an existing pond/wetland area in the Orchards of Plymouth development. This basin will receive approximately 95% of the water from this project.
- 2) The City of Plymouth generally takes responsibility for the operation and maintenance of stormwater facilities in new developments. Confirmation from the City will be necessary.
- 3) Soil borings confirm high-clay content soils unsuitable for infiltration. Filtration of the abstraction volume is acceptable in lieu of infiltration.
- 4) The existing pond in the Orchard Gardens subdivision west of this site was modeled to determine the effects of routing the water from Perl Gardens to it. Modeling results determined the 100-year elevation in the Orchard Garden pond to be the same before and after the Perl Gardens development. HWL = 1000.6

Water Quality Controls

- 1) Plans **do not meet** the Commission's requirements for water quality controls. Pre-development water quality loads were not provided with the stormwater management design.
- 2) The sand filter basin will be the primary best management practice for controlling suspended solids and phosphorus on this site.
- 3) Post-development total suspended solids (TSS) and total phosphorous (TP) loads must be equal to or less than pre-development loads.
 - a. No pre-development modeling was provided for review.
 - b. Post-development loads were modeled with the MPCA MIDS calculator
 - i. Modeling BMP properties and parameters are required for our review.
- 4) Table 1 summarizes TP and TSS from this site before and after development.

Abstraction controls

- 1) Plans **meet** the Commission's requirements for abstraction.
- 2) New impervious areas will be 4.56 acres requiring 18,208 cubic feet (0.418-acre feet) of abstraction.
- 3) Soils are unsuitable for infiltration. Filtration for abstraction is allowed per Rule D.
- 4) The filtration basin will have the capacity to hold 36,416 cubic feet (0.84-acre feet) of abstraction volume prior to discharge through the primary outlet pipe. This exceeds the Commission requirements.
 - a. Filter basin soil media is identified as 85 % sand and 15% MnDOT Grade 2 compost (MPCA Mix B).
 - b. The drawdown time in this filter basin will be 24 hours.

- 5) Pre-treatment of sediment and skimming of floatables will be provided by two proprietary hydrodynamic separator structure called a SciClone. These will be in the storm sewer manholes upstream of the two inlets to the sand filter basin.
- 6) Table 1 summarizes filtration volumes provided for abstraction controls in the sand filter basin for this site.

Table 1 Stormwater Summary

Condition (9.5 acres)	TP load (lbs/year)	TSS load (lbs/year)	Filtration (cubic feet) ⁽¹⁾	Annual volume (acre-feet)
Pre-development (baseline)	N/A	N/A	N/A	N/A
Post-development without BMPs	10.3	1,865	18,208	12.52
Post-development with BMPs	4.0	213	36,416	12.52
Net Change	N/A	N/A	+18,208	N/A

(1) 4.56 acres new impervious

Rate Controls

- 1) Plans **meet** the Commission's requirements for rate control.
- 2) Two main discharge scenarios were evaluated to ensure proposed peak rates were less than or equal to existing rates.
 - a. Pre- and post-development drainage to the west into the Elm Creek Watershed
 - b. Pre- and post-development drainage to the south into the Bassett Creek Watershed
- 3) Table 2 summarizes the total peak flows leaving the site before and after development.

Table 2 Rate Control Summary

Discharge Offsite Drainage Areas	Area (Acres)	Condition	2-year (cfs)	10-year (cfs)	100-year (cfs)
West Elm Creek Watershed	5.98	Existing	9.8	17.6	34.7
	9.44	Proposed	2.5	12.4	16.0
	+3.46	Change	-7.3	-5.2	-18.7
South Bassett Creek Watershed	3.70	Existing	6.4	11.5	22.6
	0.25	Proposed	0.5	0.9	2.0
	-3.45	Change	-5.9	-10.6	-20.6

Rule E - Erosion and Sediment Control

- 1) Plans **do not meet** the Commission's requirements.

- 2) SWPPP or grading plans must provide the following:
- a. If the filter basin will be used as a temporary sediment basin, construction and sequencing on the filtration basin must be provided.
 - b. Temporary and permanent seeding specifications must be provided on the plan.

Recommendation to the Elm Creek Commissioners

None currently.

On Behalf of Barr Engineering
Advisor to the Commission



Surface Water Solutions LLC

August 28, 2020
Date

Attachments

- | | |
|----------|-------------------------------|
| Figure 1 | Location Map |
| Figure 2 | Watershed Boundary Map |
| Figure 3 | Existing Drainage Pattern Map |
| Figure 4 | Proposed Drainage Pattern Map |
| Figure 5 | 2018 Aerial Photograph |
| Figure 6 | Grading and Drainage Plan |

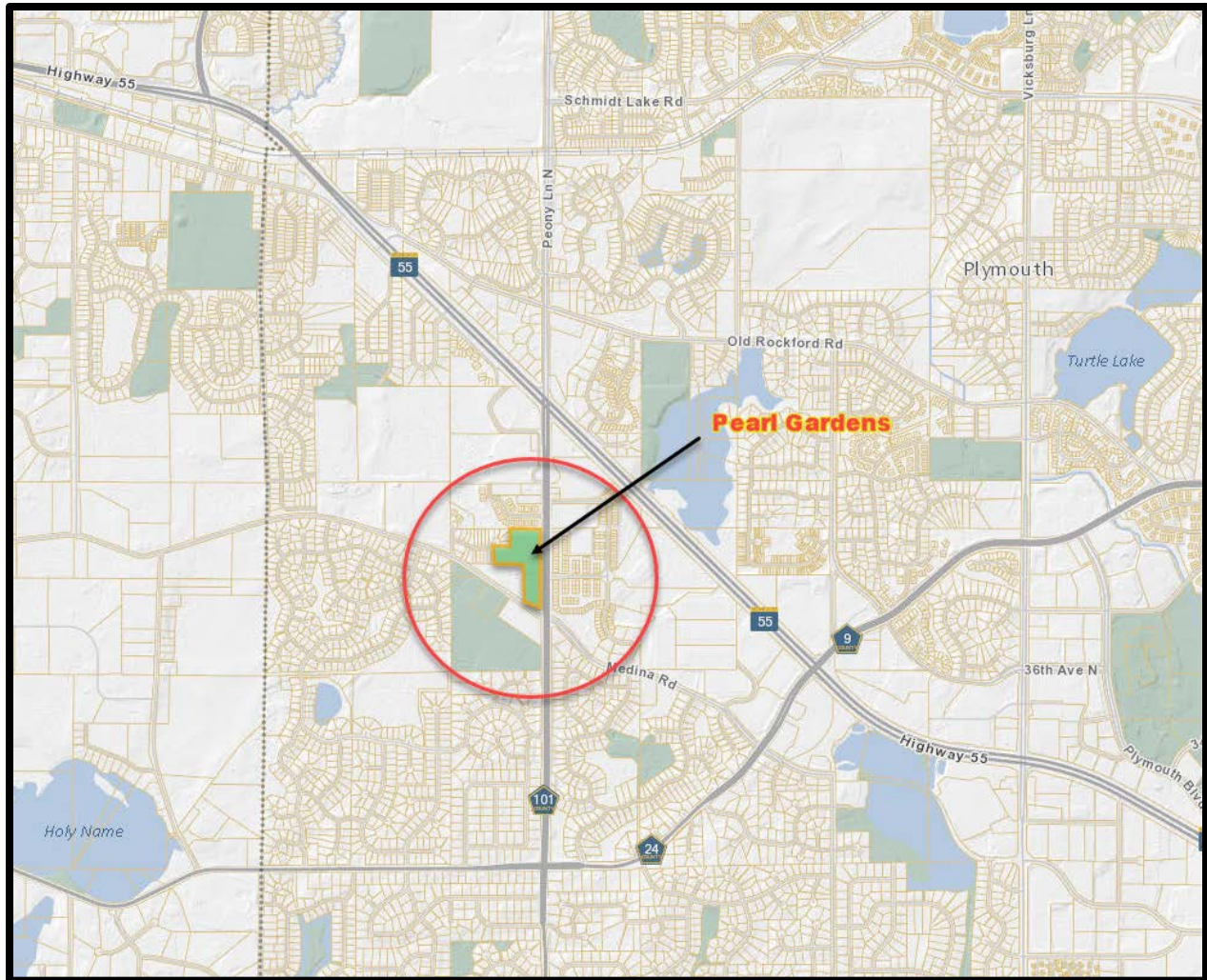


Figure 1 **Location Map**

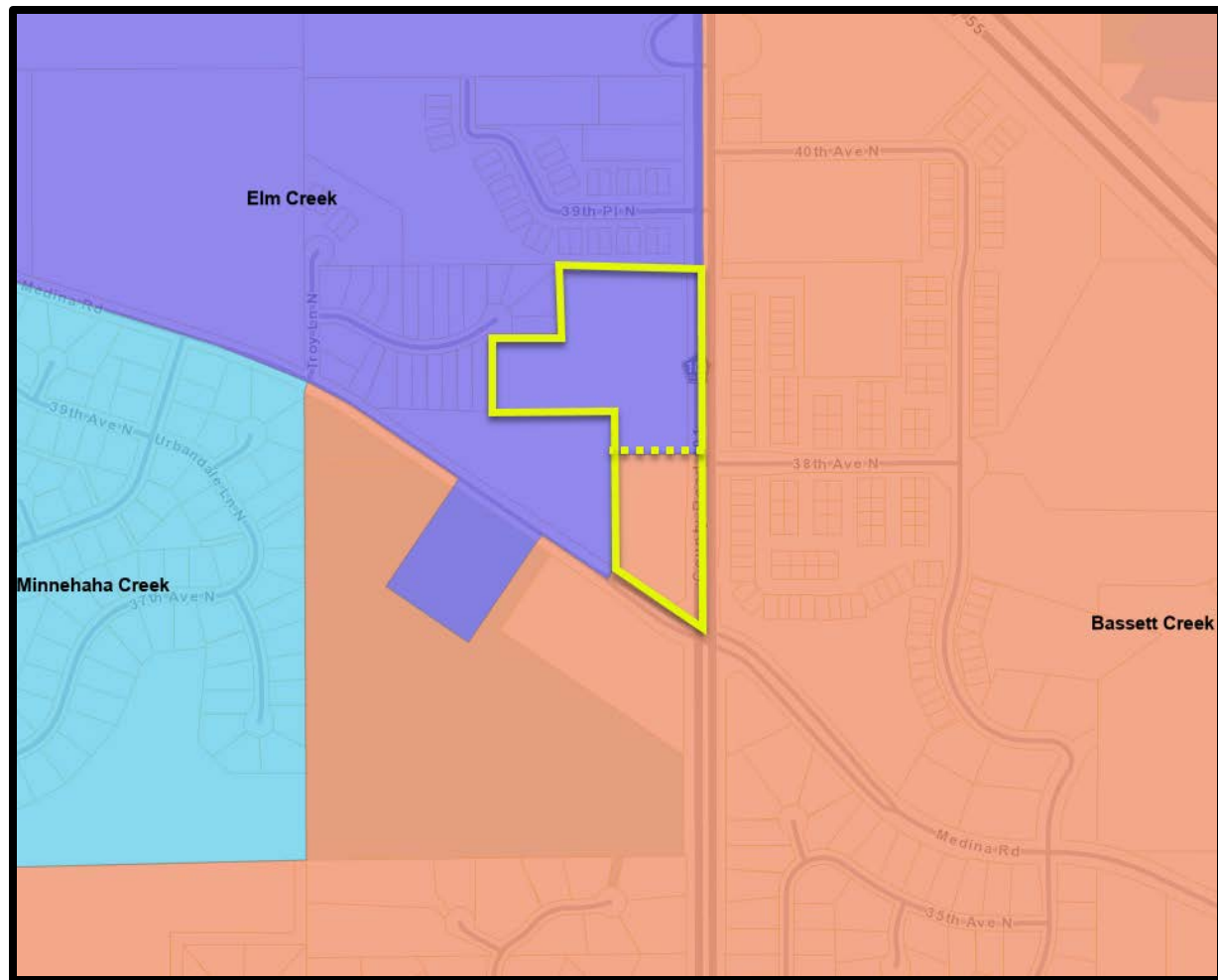


Figure 2 Watershed Legal Boundary Map

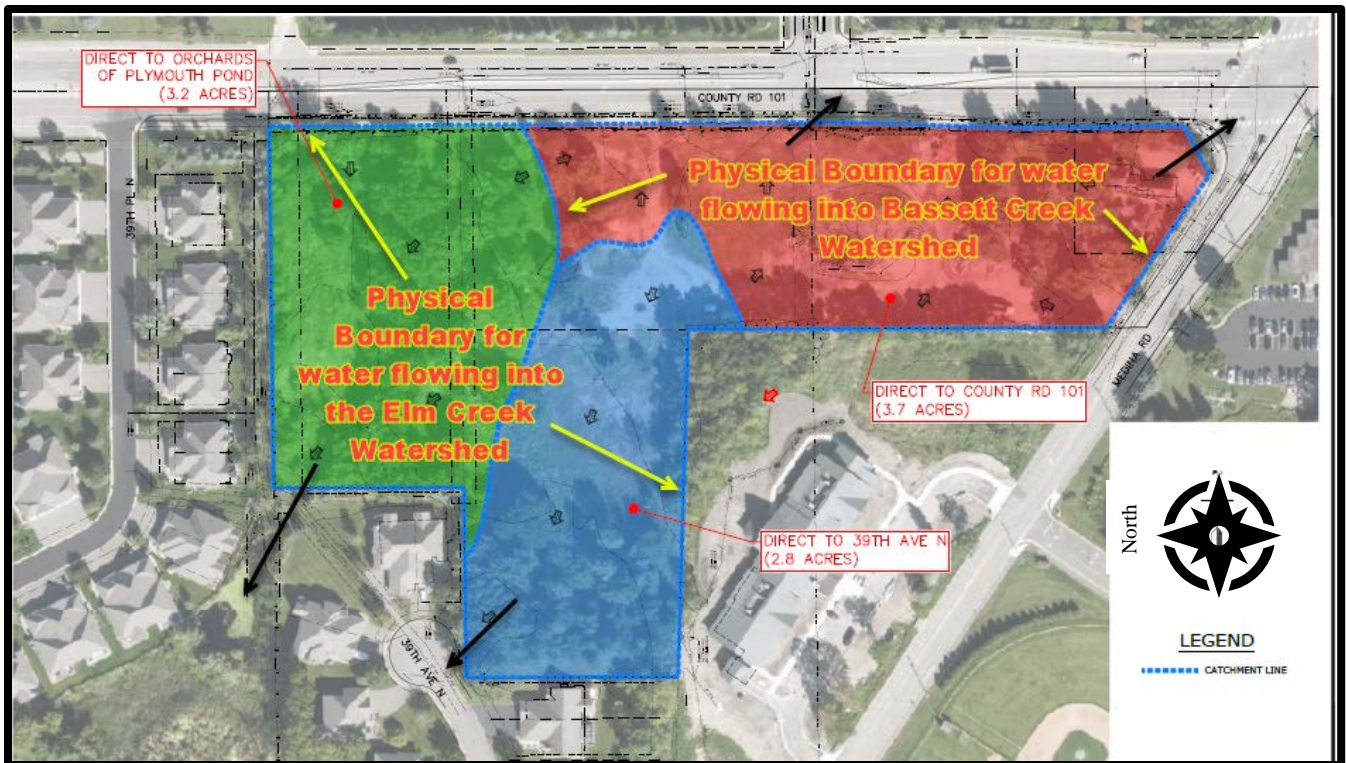


Figure 3 Existing drainage patterns

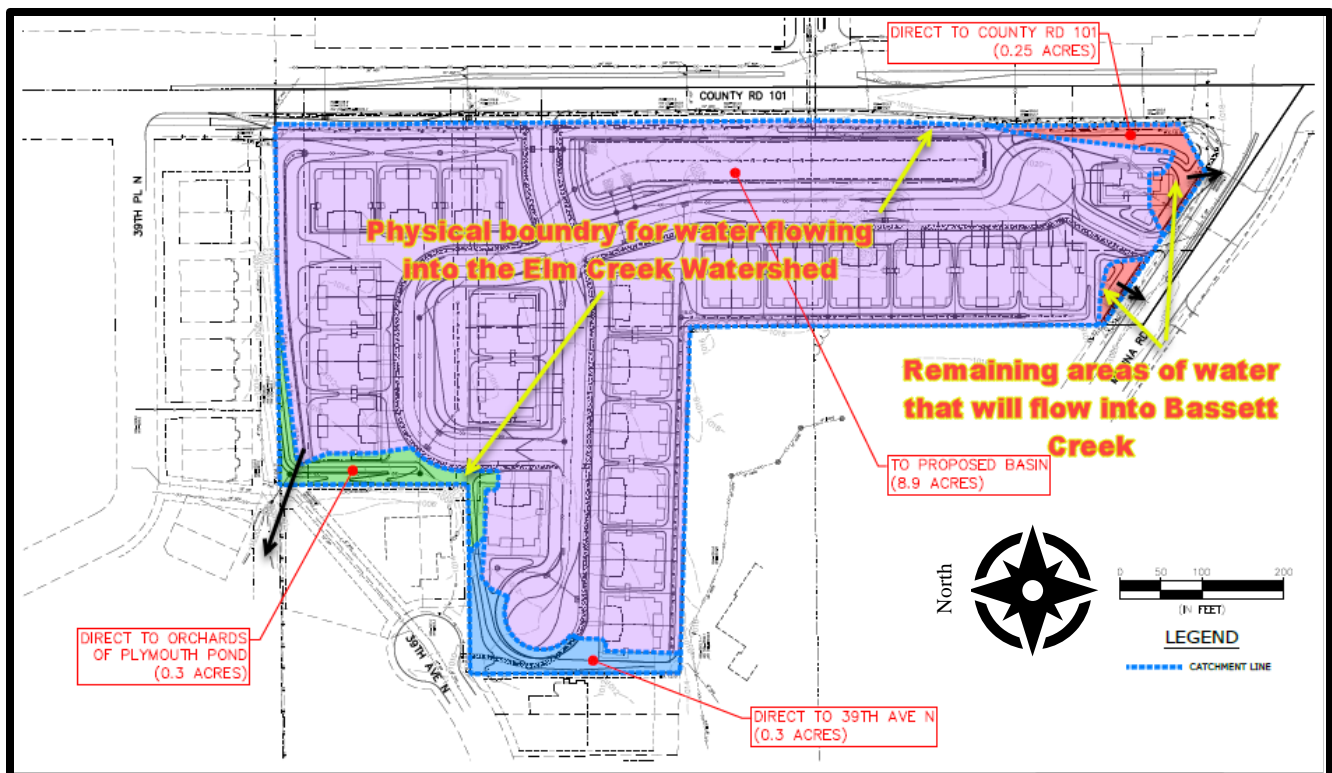


Figure 4 Proposed drainage pattern



Figure 5 **2018 Aerial Photograph**

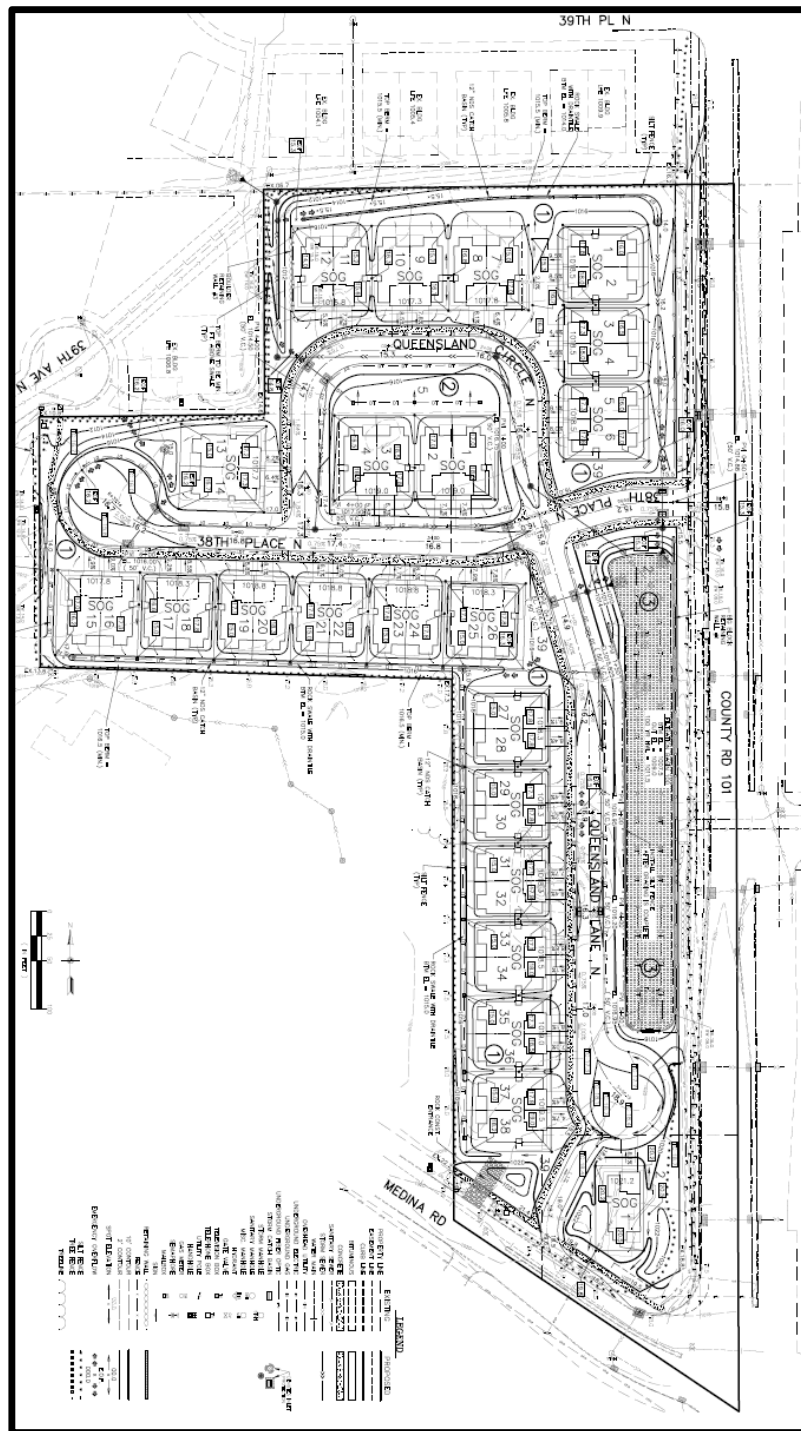


Figure 6 **Grading and Drainage Plan**